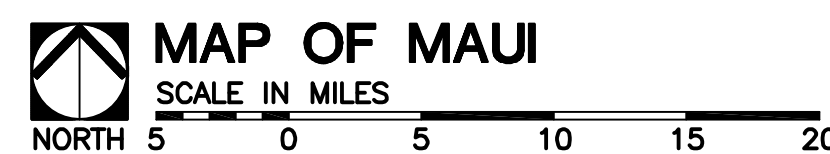
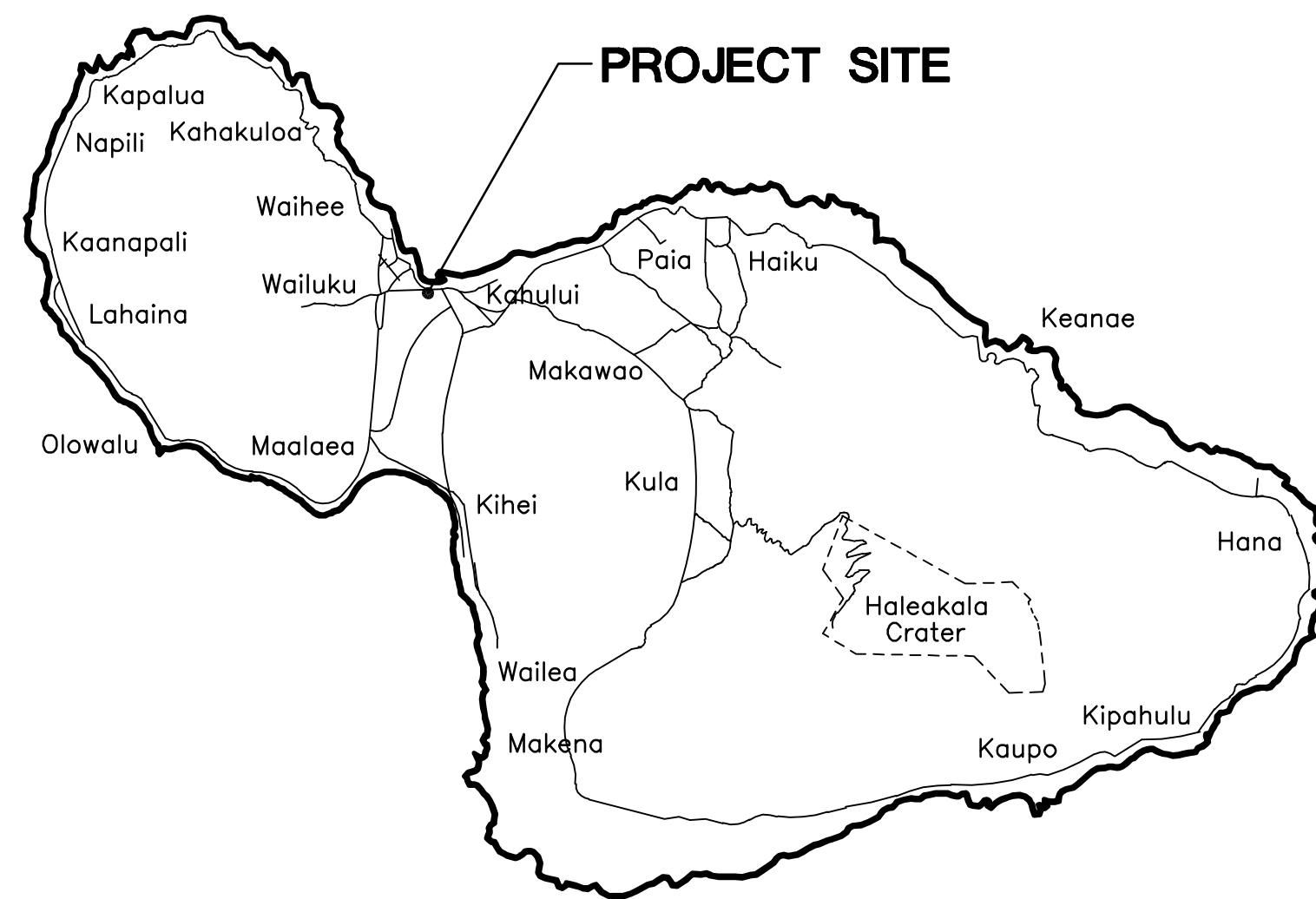


TRANSIT HUB

JOB NO. Q-TR-18-01

TAX MAP KEY: (2) 3-7-004:003

KAHULUI, MAUI, HAWAII



PREPARED FOR:

DEPARTMENT OF TRANSPORTATION
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

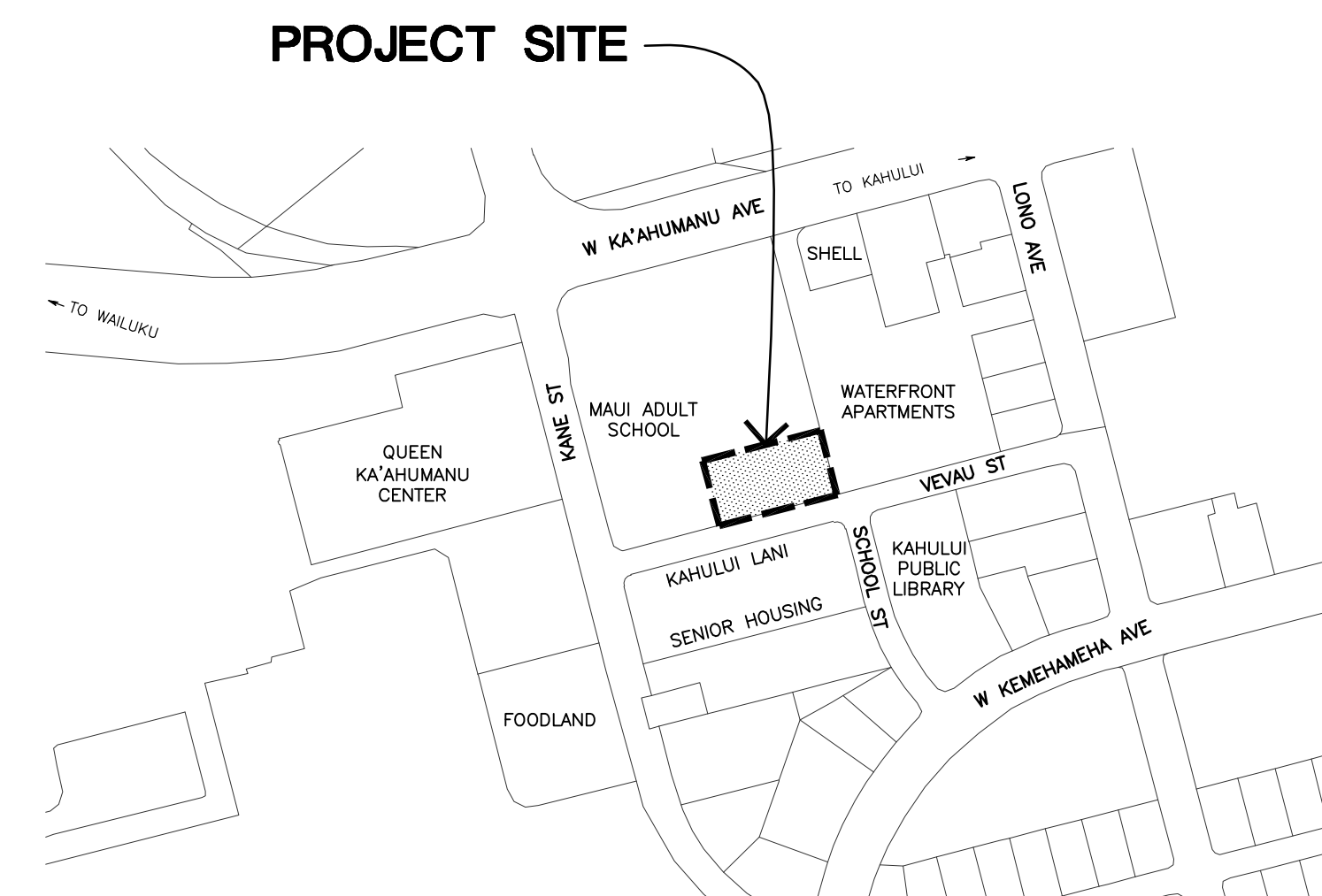
PREPARED BY:



FUKUMOTO ENGINEERING, INC.
Civil Engineering & Land Surveying Consultants
1721 Wili Pa Loop, Suite 203 • Wailuku, Hawaii 96793

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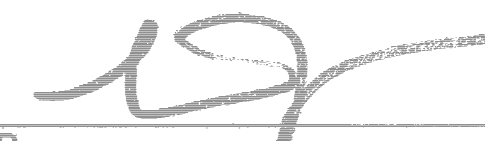
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PUKALANI, HAWAII 96788
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MECHANICAL ENGINEER:
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PHONE: (808) 878-8967

APPROVALS:



DIRECTOR,
DEPARTMENT OF TRANSPORTATION
COUNTY OF MAUI



DIRECTOR, DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
(APPROVAL LIMITED TO OFF-SITE WATER IMPROVEMENTS ONLY WHICH
WILL BE DEDICATED TO THE DEPARTMENT OF WATER SUPPLY)

AUG 26 2020
DATE

JUN 26 2020
DATE



FUKUMOTO ENGINEERING, INC.
Civil Engineering &
Land Surveying Consultants

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Prepared for:
DEPARTMENT OF TRANSPORTATION
COUNTY OF MAUI
2145 KACHU STREET
WAILUKU, HAWAII 96793

TRANSIT HUB
QBS NO. Q-TR-18-01
KAHULUI, MAUI, HAWAII

GENERAL PLAN AND DEMOLITION PLAN



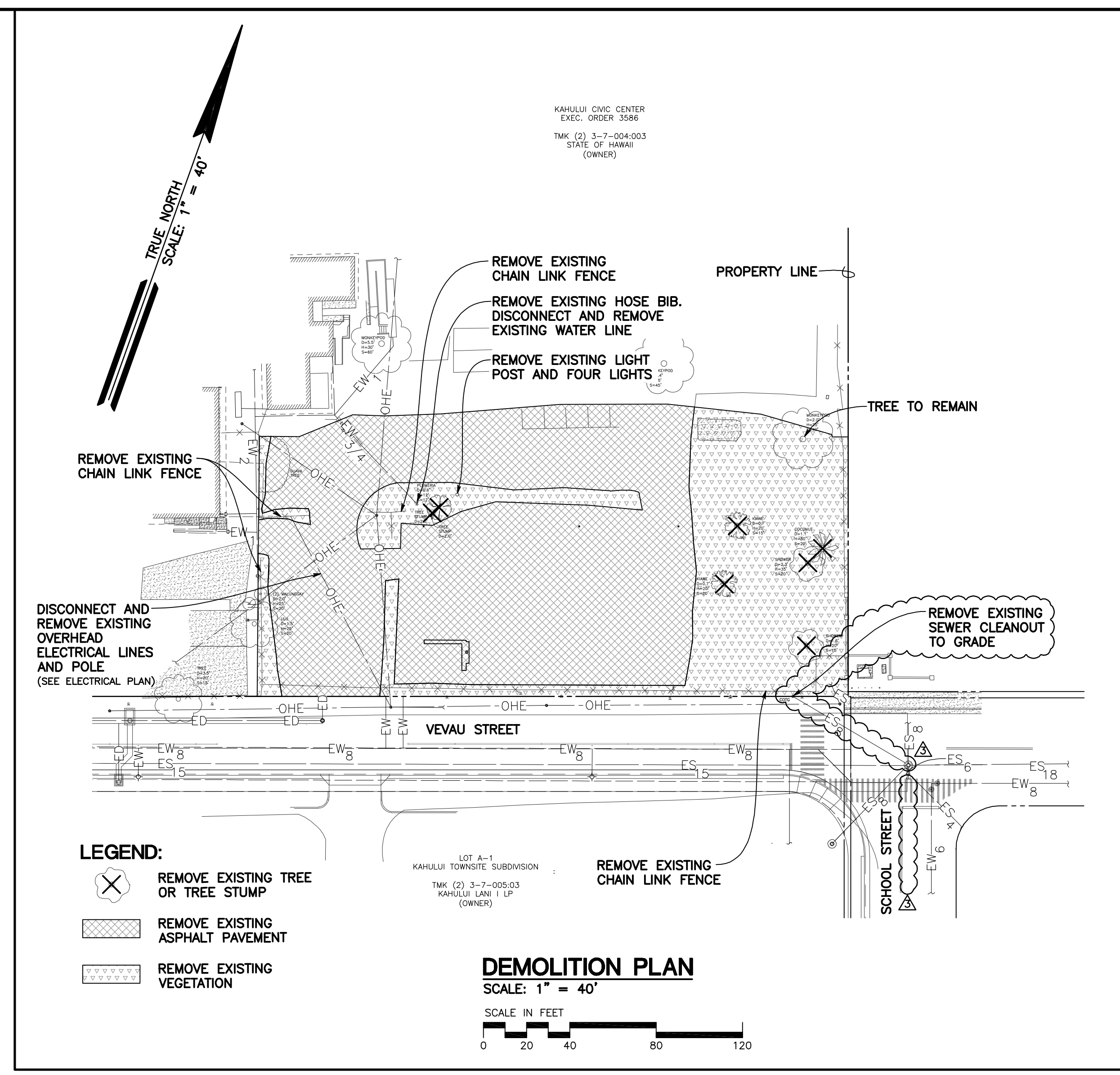
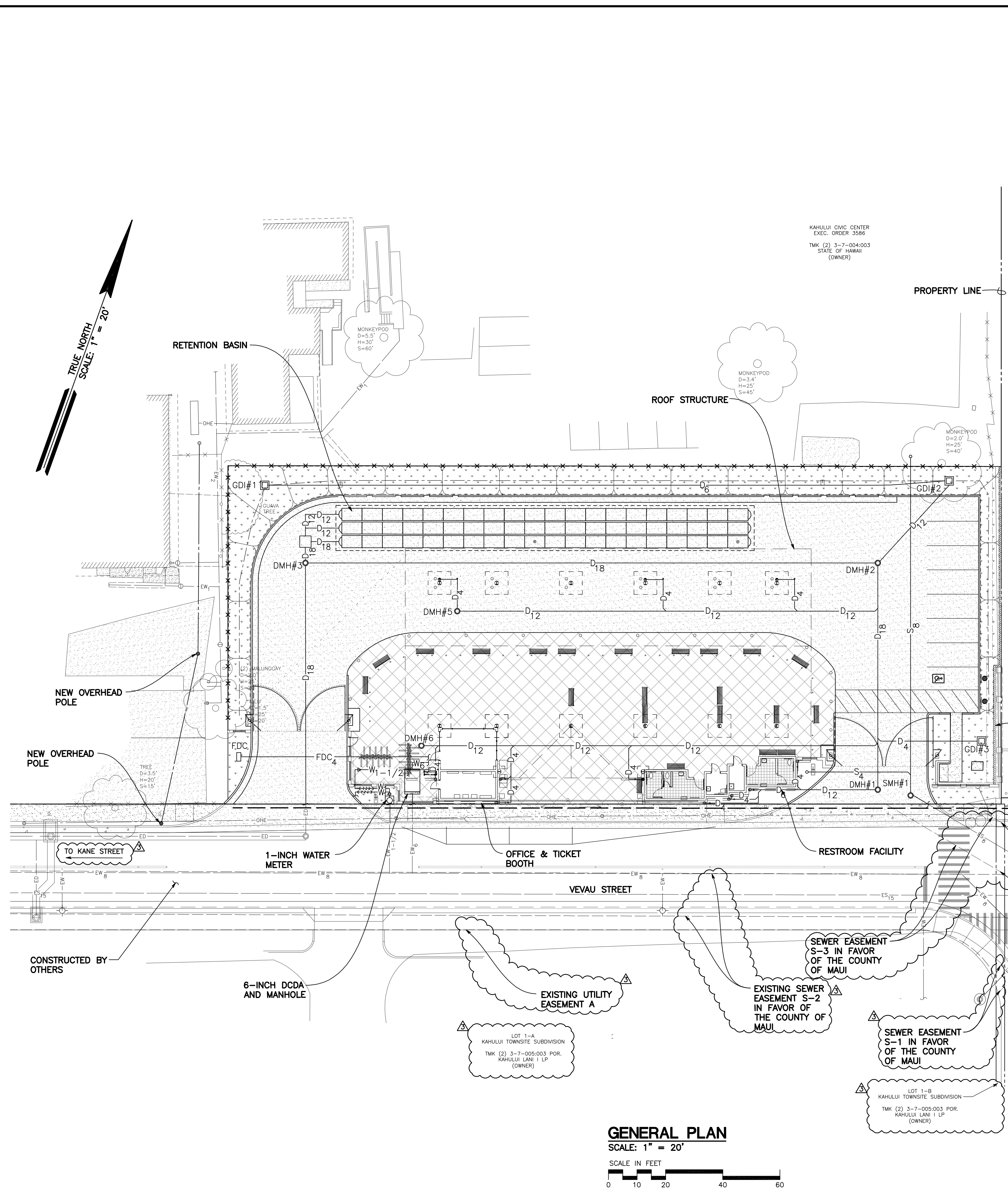
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAR 16-115-2.

LICENSE EXPIRES: 04/30/2020

09/30/2020 WRRD REVISIONS

DESIGNED BY: O.M.
DRAWN BY: O.M.
CHECKED BY: M.S.
DATE: AUGUST 7, 2020
FILE NO: COMB1

SHEET
C-1
2 OF



- LEGEND:**
- REMOVE EXISTING TREE OR TREE STUMP
 - REMOVE EXISTING ASPHALT PAVEMENT
 - REMOVE EXISTING VEGETATION

PROJECT LIMITS.
ALL IMPROVEMENTS ON
VEVAU STREET INCLUDING
SIDEWALKS TO BE DONE
BY OTHERS.

KAHULUI CIVIC CENTER
EXEC. ORDER 3086
TMK (2) 3-7-004-003
STATE OF HAWAII
(OWNER)

KAHULUI CIVIC CENTER
EXEC. ORDER 3586
TMK (2) 3-7-004-003
STATE OF HAWAII
(OWNER)

TMK (2) 3-7-004-001
ROBERT AND MARK DAY
COMPANY LLC
(OWNER)

TMK (2) 3-7-004-014
LONO STREET PROPERTIES LLC
(OWNER)

LOT A-1
KAHULUI TOWNSITE SUBDIVISION
TMK (2) 3-7-005-03
KAHULUI LANI LP
(OWNER)

LOT 1-A
KAHULUI TOWNSITE SUBDIVISION
TMK (2) 3-7-005-003 POR.
KAHULUI LANI LP
(OWNER)

LOT 1-B
KAHULUI TOWNSITE SUBDIVISION
TMK (2) 3-7-005-003 POR.
KAHULUI LANI LP
(OWNER)

TMK (2) 3-7-005-024
DEPARTMENT OF EDUCATION
(OWNER)

CONSTRUCTION NOTES

GENERAL NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED ON AVAILABLE "AS-BUILT" OF RECORD...
2. EXISTING CONTOURS AND FEATURES ARE BASED ON "TOPOGRAPHIC SURVEYS" PREPARED BY FUKUMOTO ENGINEERING, INC. DATES OF SURVEY: OCTOBER 5 THROUGH 17, 2018.
3. ELEVATIONS SHOWN ARE BASED ON THE BENCH MARK, TOP OF FIRE HYDRANT, LOCATED ON THE NORTHERLY SIDE OF THE CIVIC CENTER LOT, ALONG THE SOUTHERLY SIDE OF KAAHUMANU AVENUE...

GRADING NOTES

- 1. FINISH SPOT ELEVATIONS AND FINISH CONTOURS, AS SHOWN ON PLAN REPRESENTS FINISH GRADING. THE SITE WORK CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE CONTRACTOR THE LOCATION AND DEPTH OF TOPSOIL THE FINISH SUBGRADE SHALL REFLECT THE FINISH GRADE LESS SPECIFIED TOPSOIL DEPTH.
2. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE MEASURES OF THE BEST MANAGEMENT PRACTICE (BMP) PLAN. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS...

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

- 1. THE PERMITEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
2. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.

GENERAL NOTES FOR TRAFFIC CONTROL PLAN (CONT.)

- 10. THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
11. AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION.
12. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF WORK. LANE CLOSURES FOR CONSTRUCTION WORK SHALL NOT BE ALLOWED DURING THE HOURS OF 6:30 A.M.-8:30 A.M. AND 3:30 P.M.-5:30 P.M. MONDAYS THROUGH FRIDAYS, UNLESS OTHERWISE APPROVED IN WRITING BY THE DIRECTOR OF PUBLIC WORKS OR HIS REPRESENTATIVE.

WATER SYSTEM

- 1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER SUPPLY (DWS), IN WRITING, ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.
2. IF CONSTRUCTION OF WATER SYSTEM IMPROVEMENTS WILL AFFECT DWS CONSUMERS, CONTRACTOR SHALL NOTIFY CONSUMERS BY RADIO/NEWSPAPER TWO (2) DAYS BEFORE AND ON DAY OF CONNECTION. CONTRACTOR SHALL ALSO NOTIFY CONSUMERS HOUSE-TO-HOUSE ONE (1) DAY BEFORE CONNECTION WORK.
3. ALL MATERIALS USED AND METHODS OF CONSTRUCTION OF WATER SYSTEM FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF DWS WATER SYSTEM STANDARDS. CONTRACTOR SHALL OBTAIN THE LATEST REVISIONS OF THE DWS STANDARDS BEFORE COMMENCING CONSTRUCTION.

WATER SYSTEMS (CONT.)

- 25. LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.
26. CONTRACTOR SHALL PAINT AND NUMBER FIRE HYDRANT(S). NUMBERING TO BE FURNISHED BY DWS.
27. WATER MAINS AND APPURTENANCES SHALL BE SUBJECT TO HYDROSTATIC TESTING IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C600, UNDER THE "HYDROSTATIC TESTING" SECTION, TO A PRESSURE OF AT LEAST 1.5 TIMES THE WORKING PRESSURE, UNLESS OTHERWISE STATED IN THE CONSTRUCTION DOCUMENTS OR LIMITED BY THE PRESSURE RATING OF EQUIPMENT. THE PRESSURE TEST AND LEAKAGE TEST SHALL BE PERFORMED AT 225 POUNDS PER SQUARE INCH PRESSURE.

CHLORINATION OF WATER SYSTEMS

- 1. WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. ALL PROCEDURES AND MATERIALS (LIQUID CHLORINE OR CALCIUM HYPOCHLORITE) USED FOR THE CHLORINATION OF THE PROJECT SHALL CONFORM TO AWWA REQUIREMENTS.
2. PRIOR TO CHLORINATION, THE PROJECT PIPELINES SHALL BE THOROUGHLY CLEANED. CLEANING OF LINES 8" AND LARGER SHALL BE BY PIGGING USING FOAM PIGS. SMALLER LINES CAN BE FLUSHED IN ACCORDANCE WITH AWWA REQUIREMENTS IF ADEQUATE WATER SUPPLY IS PROVIDED, OTHERWISE BY PIGGING. THE CONTRACTOR SHALL SUBMIT HIS PLAN FOR PIPELINE CLEANING, INCLUDING FITTING REQUIREMENTS FOR PIGGING, FOR APPROVAL PRIOR TO PROCEEDING.

WASTEWATER NOTES

- 1. ALL WASTEWATER LINES AND APPURTENANCES SHALL CONFORM TO STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, DATED SEPTEMBER 1984, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI.
2. ALL SEWERLINE AND APPURTENANCES SHALL FOLLOW THE DESIGN STANDARDS OF THE WASTEWATER RECLAMATION DIVISION, CITY AND COUNTY OF HONOLULU, VOLUMES 1 & 2, DATED JULY 1993 AND JULY 1984 RESPECTIVELY, UNLESS OTHERWISE NOTED.
3. ALL WASTEWATER LINES AND APPURTENANCES INSTALLATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION DATED SEPTEMBER 1986. IF ANY CONFLICTS ARISE BETWEEN THE STANDARD DETAILS, DESIGN STANDARDS AND THE STANDARD SPECIFICATIONS, THE STRICTEST STANDARD SHALL APPLY, UNLESS APPROVED OTHERWISE.

WASTEWATER NOTES (CONT.)

- 17. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED AS A CONDITION FOR THE FINAL ACCEPTANCE OF THE PROJECT.
18. PRIOR TO INSPECTION BY CLOSED CIRCUIT TELEVISION (CCTV), ALL WASTEWATER LINES INSTALLED, INCLUDING LATERALS, SHALL BE FLUSHED WITH WATER AND AN ACCUMULATED CONSTRUCTION DEBRIS AND OTHER FOREIGN MATERIALS SHALL BE REMOVED.
19. ALL MAIN WASTEWATER LINES WHICH WILL BE DEDICATED TO THE COUNTY OF MAUI SHALL BE INSPECTED BY CCTV IN STRICT ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS CCTV POLICY...

LEGEND/ABBREVIATIONS:

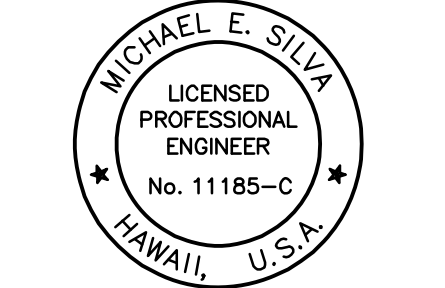
Table with columns for symbol and description. Includes: PROPERTY LINE, EXISTING MAJOR CONTOURS, EXISTING SEWERLINE W/SIZE, EXISTING WATERLINE, EXISTING DRAINLINE, EXISTING FIRE LINE, EXISTING OVERHEAD ELECTRICAL LINE, EXISTING FENCE, AS NOTED, DRAIN MANHOLE, SEWER MANHOLE, GRATED DRAIN INLET, UTILITY POLE, HOSE BIBB, SIGN (WORDING AS NOTED), FDC PEDESTAL, EXISTING SPOT ELEVATION, NAME OF TREE, DIAMETER OF TRUNK, HEIGHT, SPREAD.



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Website: www.femaiui.com

Prepared for: DEPARTMENT OF TRANSPORTATION COUNTY OF MAUI 2145 KACHU STREET WAILUKU, HAWAII 96793

TRANSIT HUB
QBS NO. Q-TR-18-01
KAHALUI, MAUI, HAWAII
CONSTRUCTION NOTES



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09/30/2020 WRRD REVISIONS

DESIGNED BY: O.M.
DRAWN BY: O.M.
CHECKED BY: M.S.
DATE: AUGUST 7, 2020
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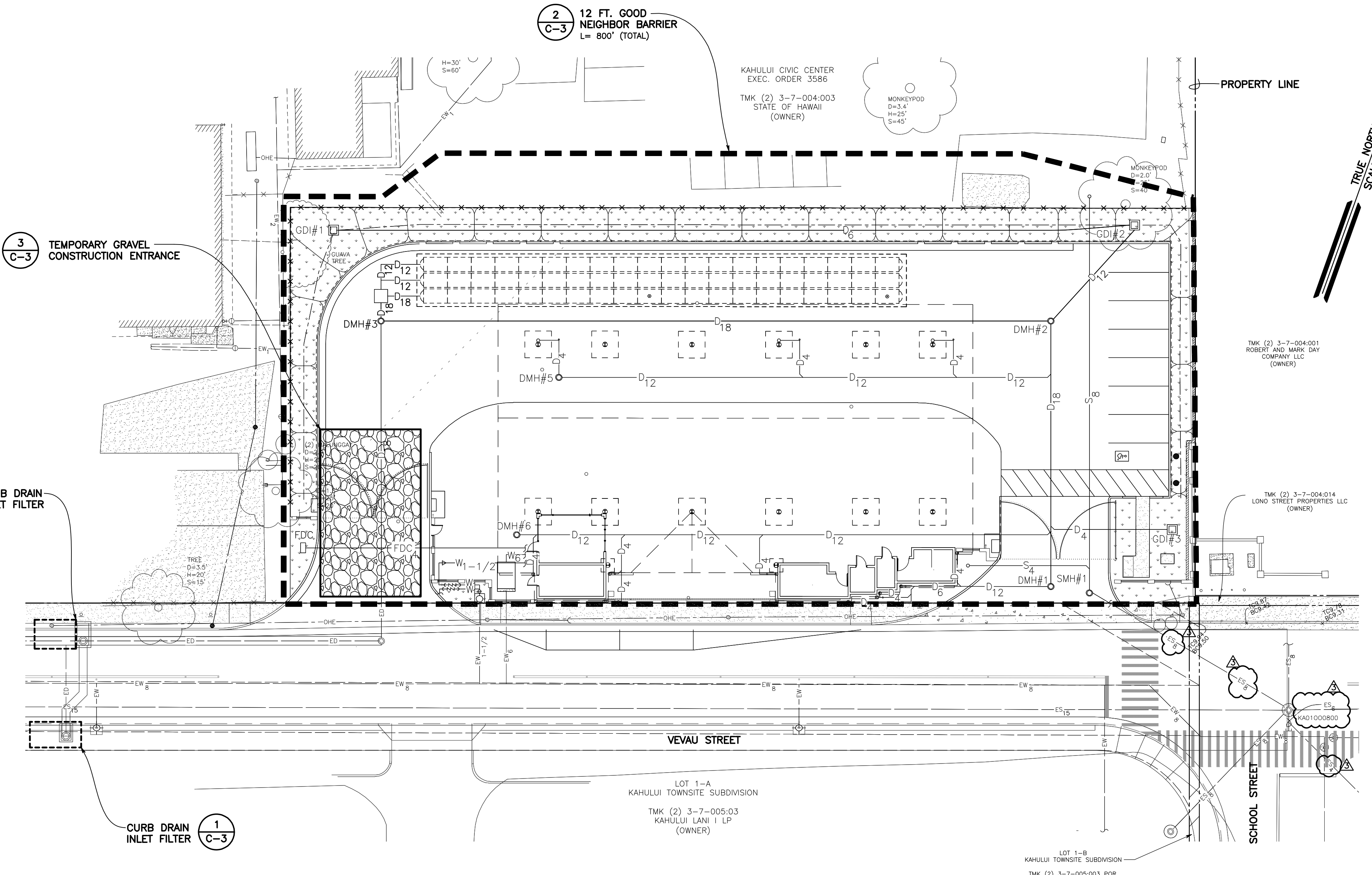
EROSION CONTROL NOTES

IMPLEMENT THE FOLLOWING OUTLINE OF EROSION CONTROL MEASURES DURING CONSTRUCTION.

1. GENERAL EROSION CONTROL MEASURES
 - A. MINIMIZE TIME OF CONSTRUCTION.
 - B. RETAIN EXISTING GROUND COVER UNTIL THE LATEST DATE TO COMPLETE CONSTRUCTION.
 - C. PROVIDE TEMPORARY GRAVEL APRON(S) (APPROXIMATELY 50' LONG BY 30' WIDE) AT POINT OF CONNECTION TO PAVED STREET TO PREVENT TRACKING OF SEDIMENTS ONTO STREET.
 - D. CONTROL DUST BY SPRINKLING WITH WATER WAGONS OR OTHER SUITABLE METHODS. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND ON WEEKENDS.
 - E. USE TEMPORARY BERMS AND CUT-OFF DITCHES, WHERE NEEDED, FOR CONTROL OF EROSION.
 - F. CONSTRUCT PERMANENT EROSION AND DRAINAGE CONTROL FEATURES AS EARLY AS POSSIBLE. ALL CUT AND FILL SLOPES SHALL BE SODDERED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED.
 - G. MAINTAIN EROSION CONTROL MEASURES UNTIL ESTABLISHMENT OF GRASS AND LANDSCAPE PLANTING.
2. ADDITIONAL EROSION CONTROL NOTES
 - A. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY WEEKLY IN DRY PERIODS AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 1/2 INCH OR GREATER WITHIN A 24-HOUR PERIOD. DURING PROLONGED PERIODS OF RAINFALL, DAILY CHECKING IS NECESSARY. THE PERMITEE SHALL MAINTAIN RECORDS OF THE DURATION AND ESTIMATED VOLUME OF STORM WATER DISCHARGE(S), CHECKS, AND REPAIRS.
 - B. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 - C. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT.
 - D. TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN 30 CALENDAR DAYS.
 - E. PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION OR PAVEMENT SHALL BE APPLIED AS SOON AS PRACTICAL AFTER FINAL GRADING. IRRIGATION AND MAINTENANCE OF THE PERENNIAL VEGETATION SHALL BE PROVIDED FOR 30 DAYS OR UNTIL THE VEGETATION TAKES ROOT, WHICHEVER IS SHORTER.

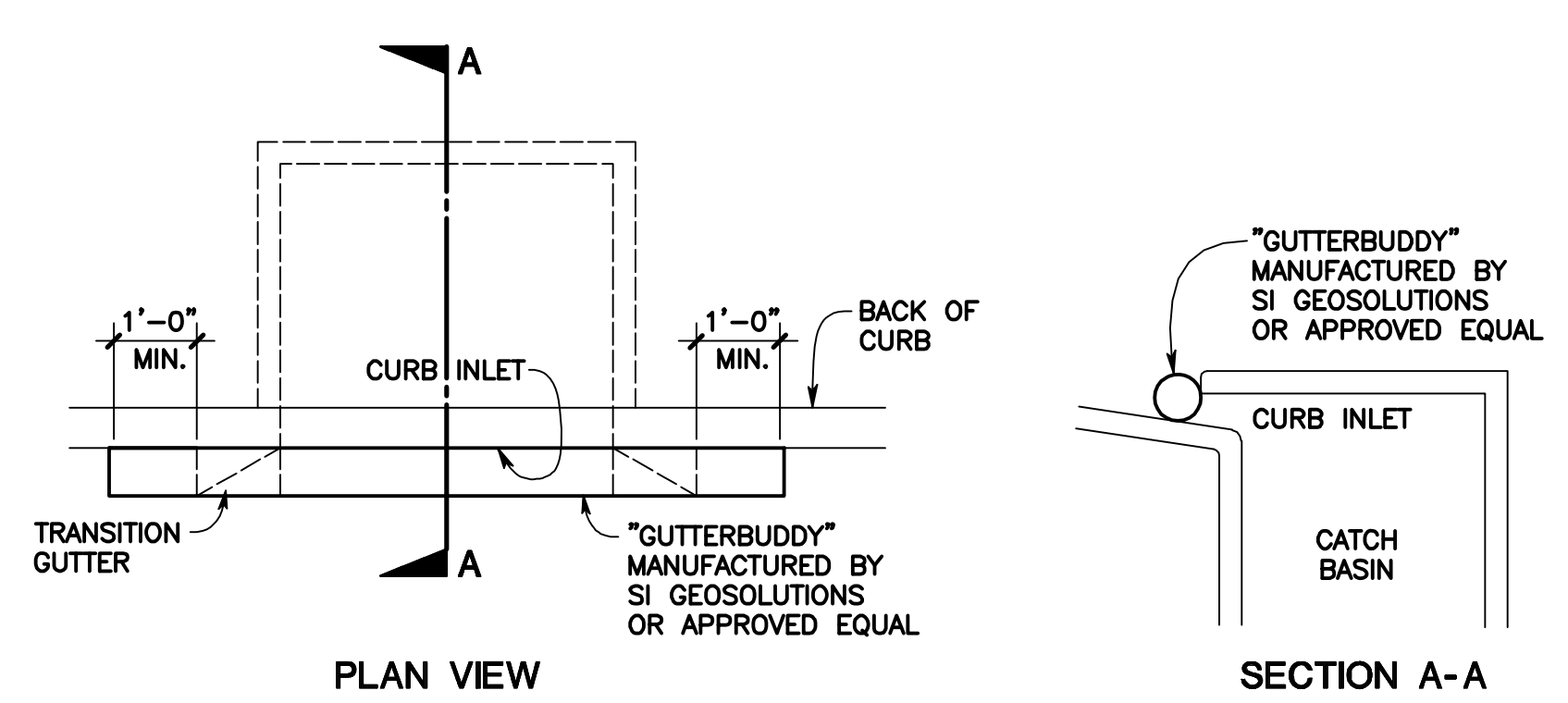
MINIMUM BEST MANAGEMENT PRACTICES

1. DRAINAGE: HANDLE DRAINAGE TO CONTROL EROSION, PREVENT DAMAGE TO DOWNSTREAM PROPERTIES, AND RETURN WATER TO THE NATURAL DRAINAGE COURSE IN A MANNER WHICH MINIMIZES SEDIMENTATION OR OTHER POLLUTION TO THE MAXIMUM EXTENT PRACTICABLE.
2. DUST CONTROL: CONTROL DUST EMISSIONS TO THE MAXIMUM EXTENT PRACTICABLE THROUGH BMPS SUCH AS WATER SPRINKLING, DUST FENCES, LIMITING AREA OF DISTURBANCE, AND TIMELY GRASSING OF FINISHED AREAS.
3. VEGETATION: RETAIN NATURAL VEGETATION, ESPECIALLY GRASSES, WHEREVER FEASIBLE. AVOID STORAGE OF GRUBBED MATERIALS NEAR WATERCOURSES.
4. EROSION CONTROLS: STABILIZE ALL DISTURBED AREAS WITH EROSION CONTROL MEASURES SUCH AS VEGETATION, RUNOFF DIVERSION, CHECK DAMS, MULCHING, BLANKETS, BONDED FIBER MATRICES, AND VEHICLE WHEEL WASH FACILITIES.
5. SEDIMENT CONTROL: CAPTURE SEDIMENT TRANSPORTED IN RUNOFF TO MINIMIZE THE SEDIMENT FROM LEAVING THE SITE WITH METHODS SUCH AS SEDIMENT BASINS, SEDIMENT TRAPS, SILT FENCES, SAND BAGS, AND VEGETATED FILTER STRIPS.
6. MATERIAL AND WASTE MANAGEMENT: PROPERLY STORE TOXIC MATERIAL AND PREVENT THE DISCHARGE OF POLLUTANTS ASSOCIATED WITH CONSTRUCTION MATERIALS.
7. TIMING OF CONTROL MEASURE IMPLEMENTATION: TIMING OF CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN. DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE RE-DISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSES OR GRAVELED) BY NO LATER THAN THE FOURTEENTH DAY AFTER THE LAST DISTURBANCE.
8. EQUIPMENT: ENSURE ALL MATERIALS AND EQUIPMENT ARE FREE OF INVASIVE PLANT AND ANIMAL SPECIES.

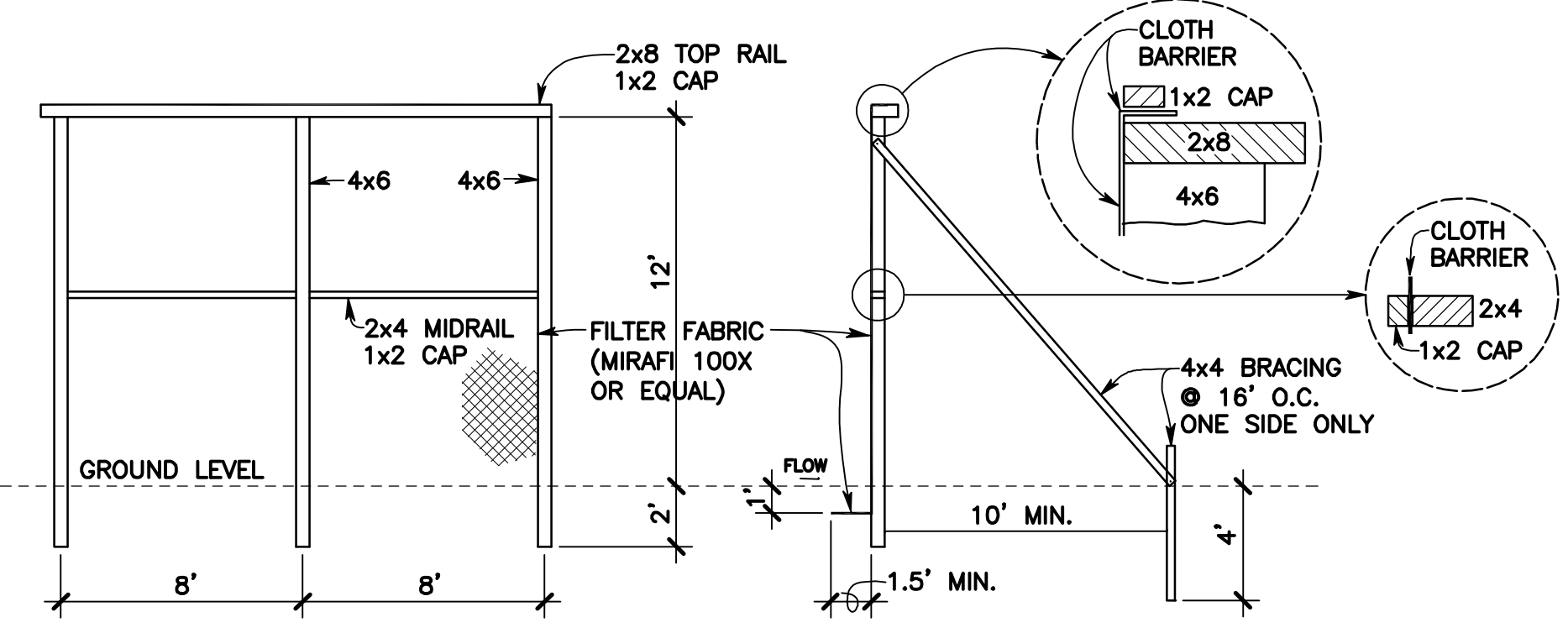


EROSION CONTROL BEST MANAGEMENT PRACTICES PLAN

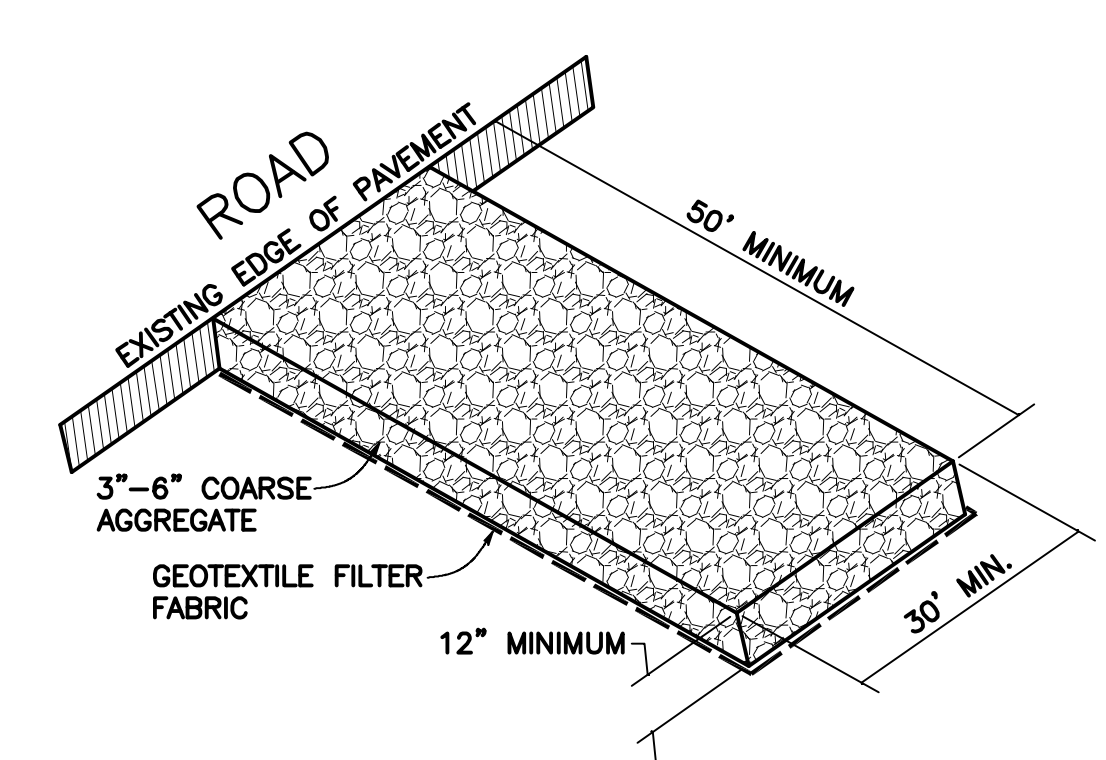
SCALE: 1" = 20'
SCALE IN FEET



1
C-3
CURB DRAIN INLET FILTER
NOT TO SCALE



2
C-3
12 FT. GOOD NEIGHBOR BARRIER (TYPICAL SECTION)
NOT TO SCALE



3
C-3
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

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KAHALUI, MAUI, HAWAII

EROSION CONTROL BEST MANAGEMENT PRACTICES PLAN

MICHAEL E. SILVA
LICENSED PROFESSIONAL ENGINEER
No. 11185-C
HAWAII, U.S.A.

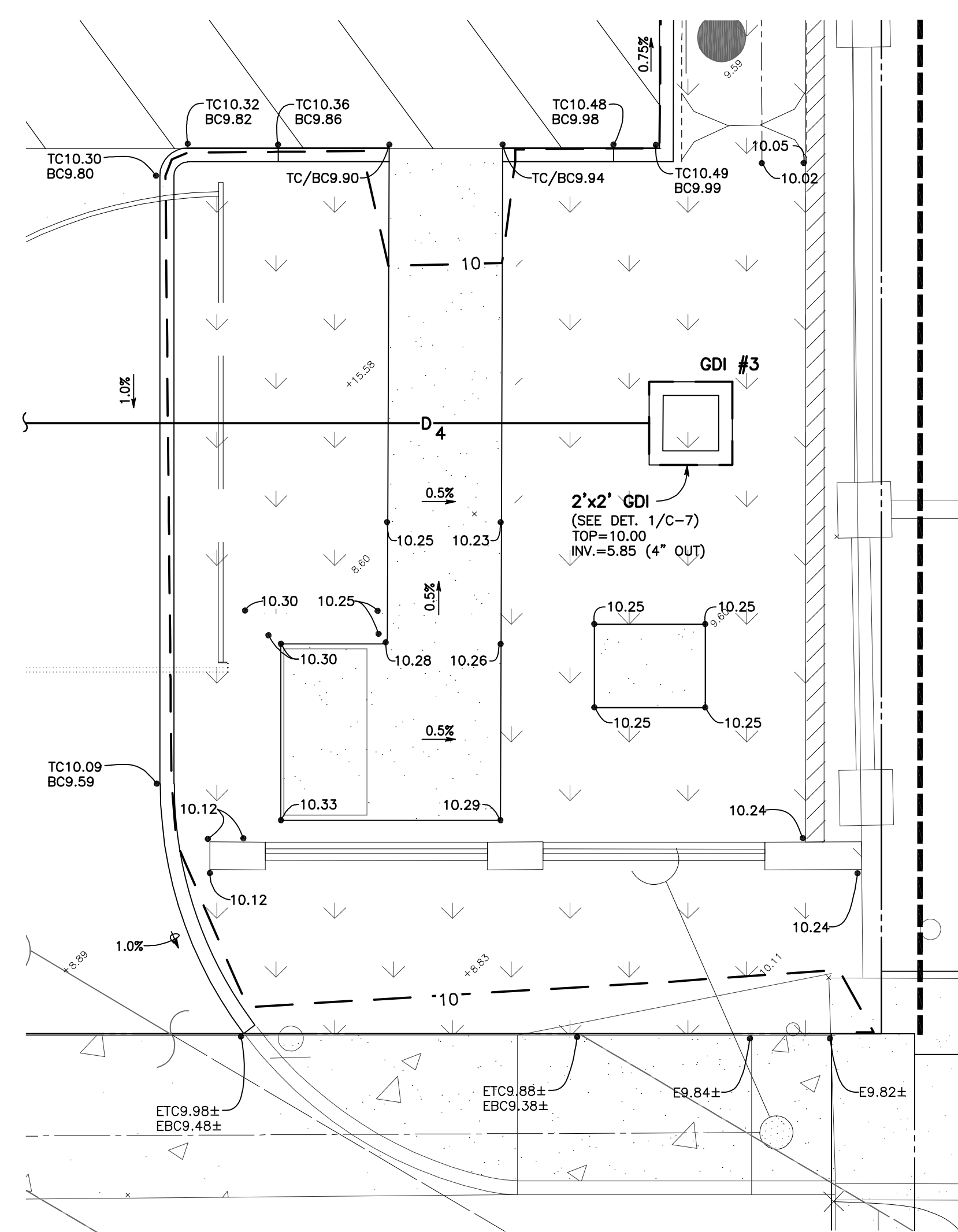
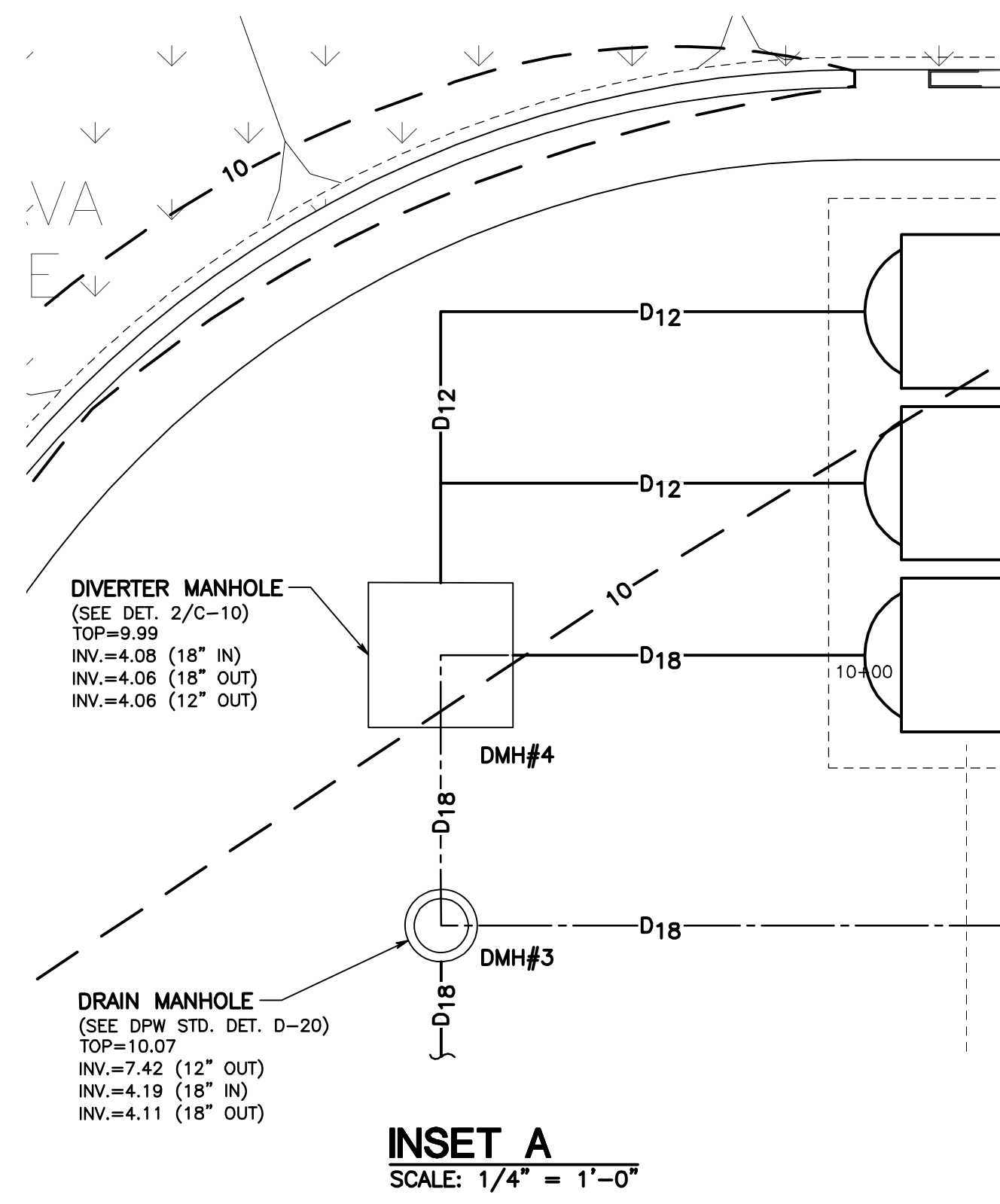
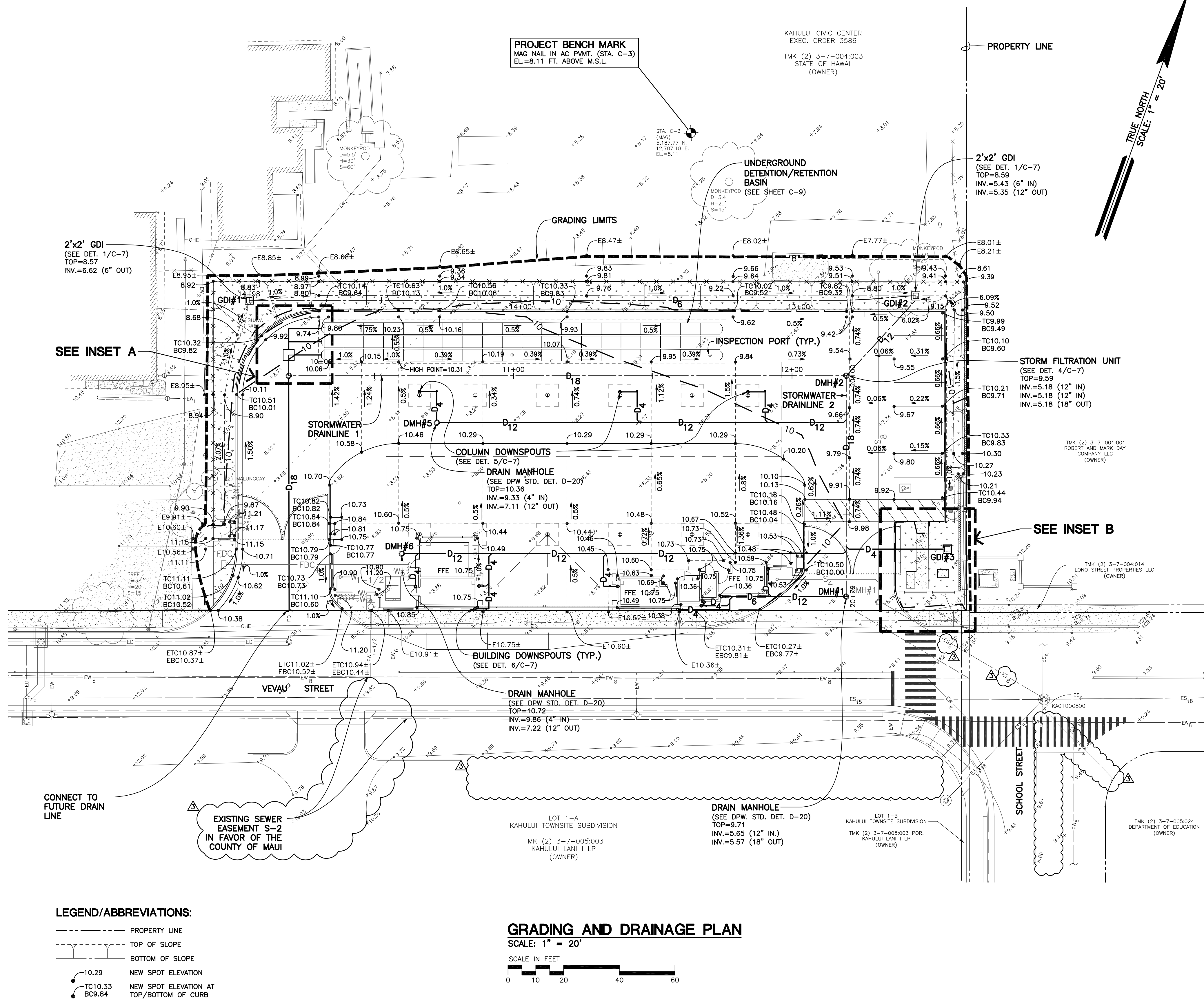
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M. Silva
LICENSE EXPIRES: 04/30/2020

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CHECKED BY: M.S.
DATE: AUGUST 7, 2020
FILE NO: COMB1

EARTHWORK QUANTITIES:
 EXCAVATION = 5 CU. YDS.
 EMBANKMENT = 2110 CU. YDS.
 AREA OF GRADING = 0.78 ACRE

EARTHWORK QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES.



LEGEND/ABBREVIATIONS:

- PROPERTY LINE
- - - TOP OF SLOPE
- - - BOTTOM OF SLOPE
- 10.29 NEW SPOT ELEVATION
- TC10.33 BC9.84 NEW SPOT ELEVATION AT TOP/BOTTOM OF CURB

GRADING AND DRAINAGE PLAN
 SCALE: 1" = 20'
 SCALE IN FEET

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GRADING AND DRAINAGE PLAN

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 No. 11185-C
 HAWAII, U.S.A.

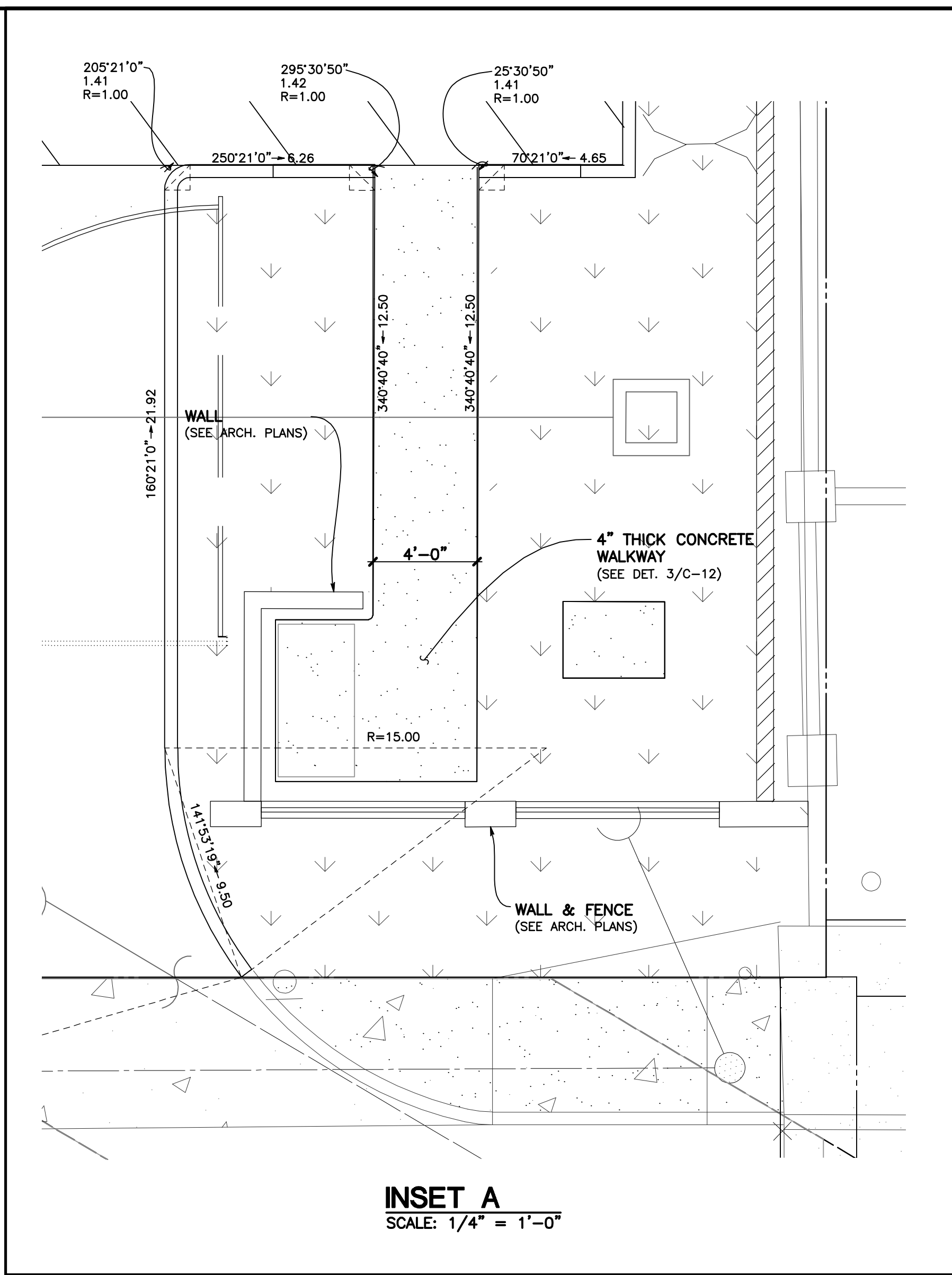
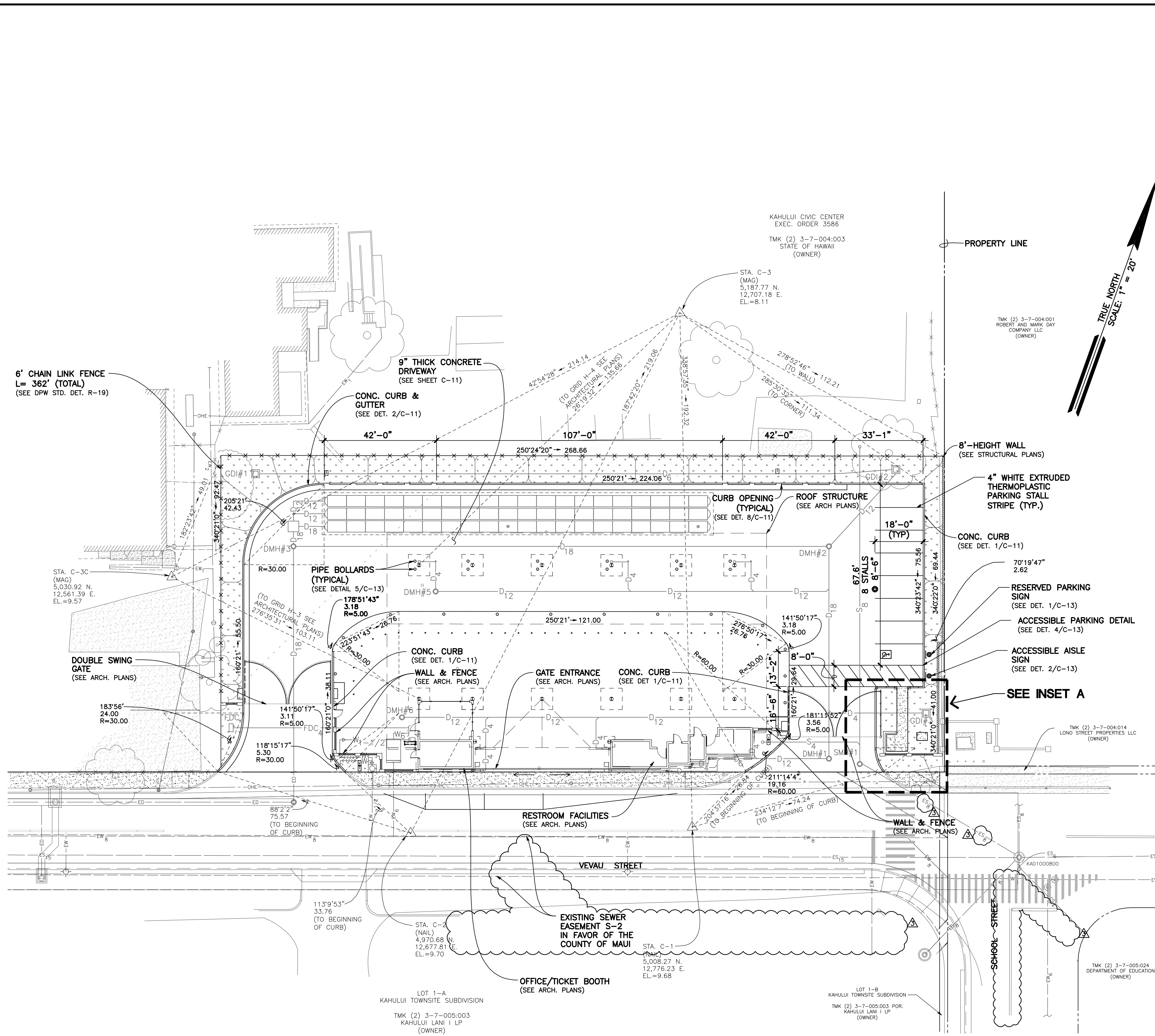
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAR 18-115-2.

LICENSE EXPIRES: 04/30/2020

DESIGNED BY: O.M.
 DRAWN BY: O.M.
 CHECKED BY: M.S.
 DATE: AUGUST 7, 2020
 FILE NO: COMB1

SHEET C-4

5 OF



SITE PLAN
SCALE: 1" = 20'

SCALE IN FEET
0 10 20 40 60

FUKUMOTO ENGINEERING, INC.
Civil Engineering & Land Surveying Consultants
1721 Wili Pa Loop, Suite 203
Wailuku, Hawaii 96793
Phone: (808) 242-8611
Email: office@femaui.com
Website: www.femaui.com

Prepared for:
DEPARTMENT OF TRANSPORTATION
COUNTY OF MAUI
2145 KACHU STREET
WAILUKU, HAWAII 96793

TRANSIT HUB
QBS NO. Q-TR-18-01
KAHALUI, MAUI, HAWAII

SITE PLAN

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

MICHAEL E. SILVA
LICENSED PROFESSIONAL ENGINEER
No. 11185-C
HAWAII, U.S.A.

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M. Silva
LICENSE EXPIRES: 04/30/2020

09/30/2020 WWRD REVISIONS

DESIGNED BY: O.M.
DRAWN BY: O.M.
CHECKED BY: M.S.
DATE: AUGUST 7, 2020
FILE NO: COMB1

SHEET
C-5
6 OF



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COUNTY OF MAUI
2145 KACHU STREET
WAILUKU, HAWAII 96793

BACKFLOW PREVENTER DATA:

TAX MAP KEY: (2) 3-7-004:003
PROJECT NAME: KAHULUI TRANSIT HUB
SERVICE ADDRESS: 153 W KAHUMANU AVENUE
KAHULUI, HI 96732

FIRE WATERLINE

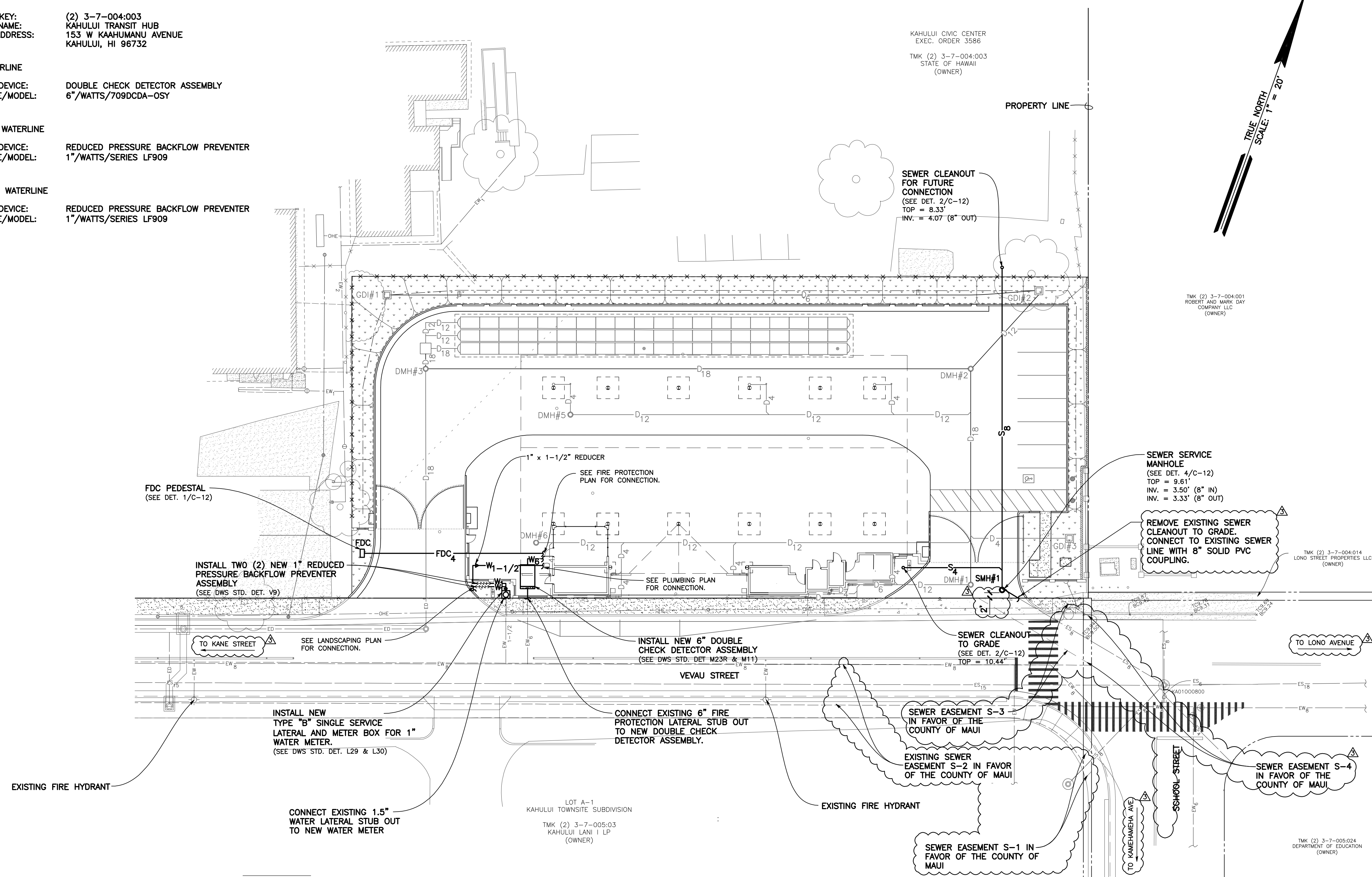
TYPE OF DEVICE: DOUBLE CHECK DETECTOR ASSEMBLY
SIZE/MAKE/MODEL: 6"/WATTS/709DCA-OSY

DOMESTIC WATERLINE

TYPE OF DEVICE: REDUCED PRESSURE BACKFLOW PREVENTER
SIZE/MAKE/MODEL: 1"/WATTS/SERIES LF909

IRRIGATION WATERLINE

TYPE OF DEVICE: REDUCED PRESSURE BACKFLOW PREVENTER
SIZE/MAKE/MODEL: 1"/WATTS/SERIES LF909



UTILITIES PLAN

SCALE: 1" = 20'



TRANSIT HUB
QBS NO. Q-TR-18-01
KAHULUI, MAUI, HAWAII
UTILITIES PLAN



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LICENSE EXPIRES: 04/30/2020

07/2020 FIRE PREVENTION REVISIONS

09/30/2020 WWRD REVISIONS

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DRAWN BY: O.M.

CHECKED BY: M.S.

DATE: AUGUST 7, 2020

FILE NO: COMB1

SHEET

C-6

7 OF

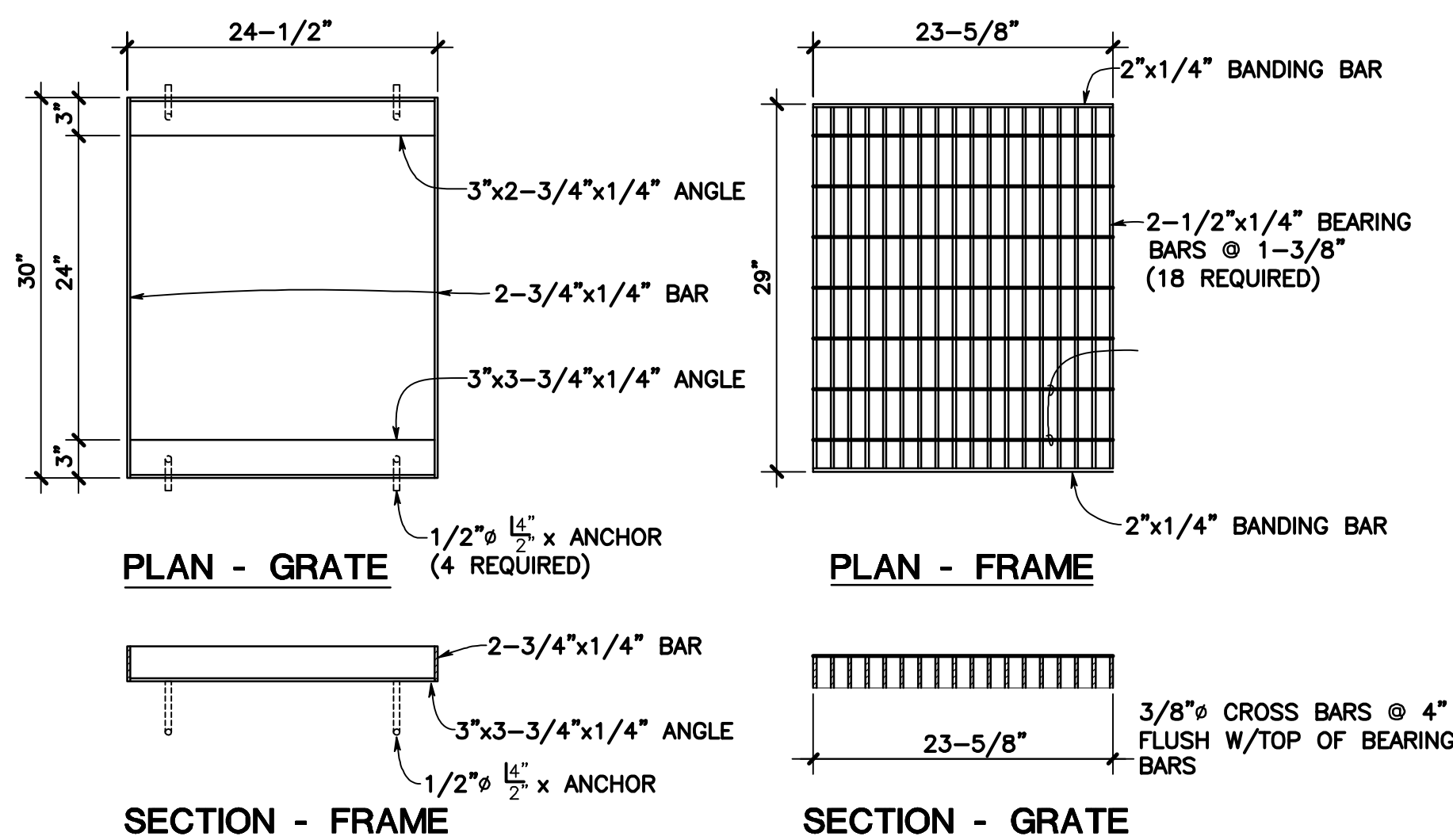


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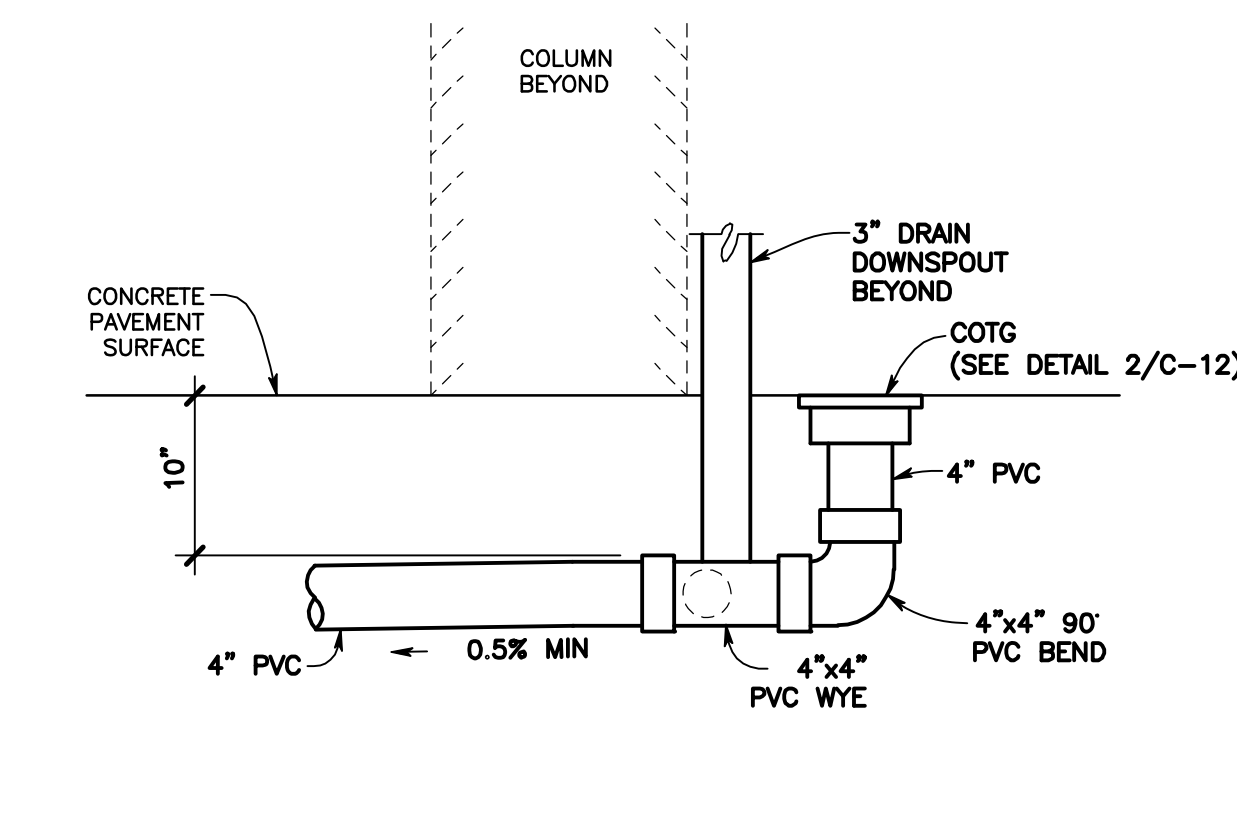
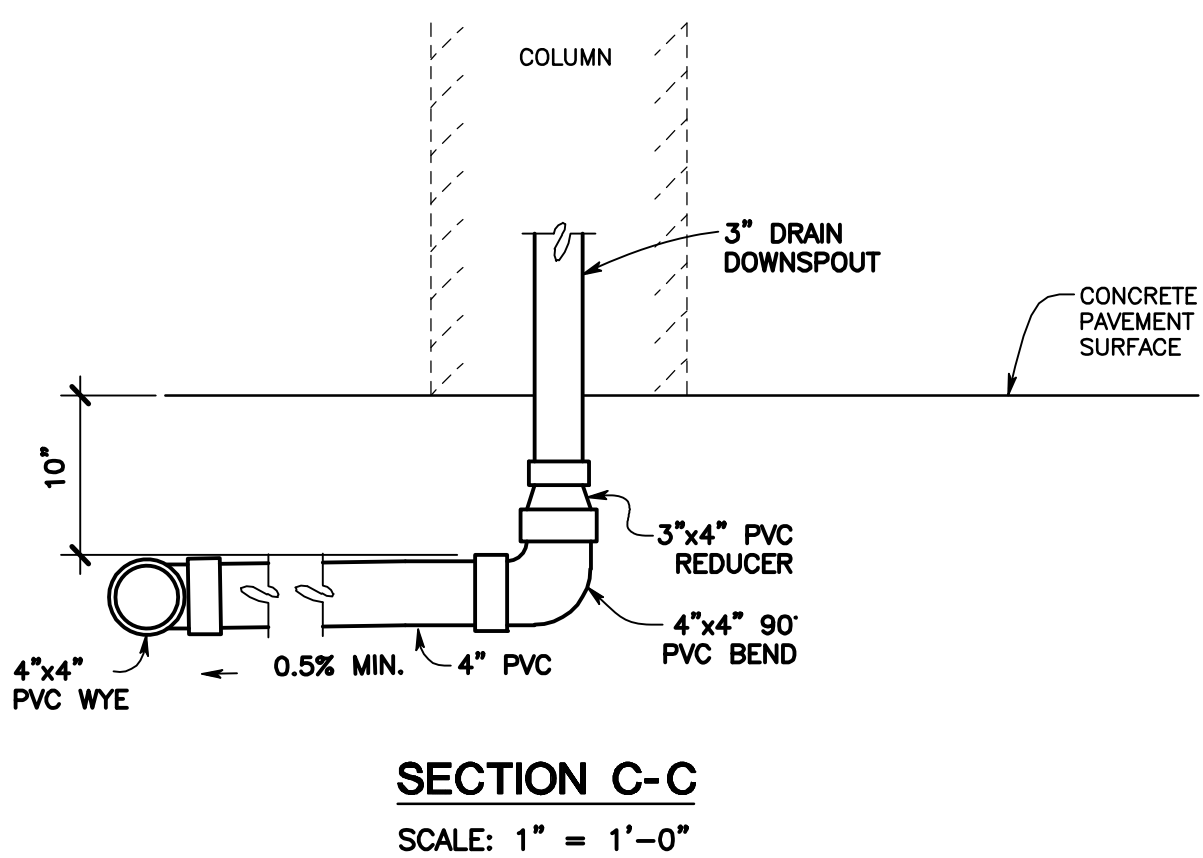
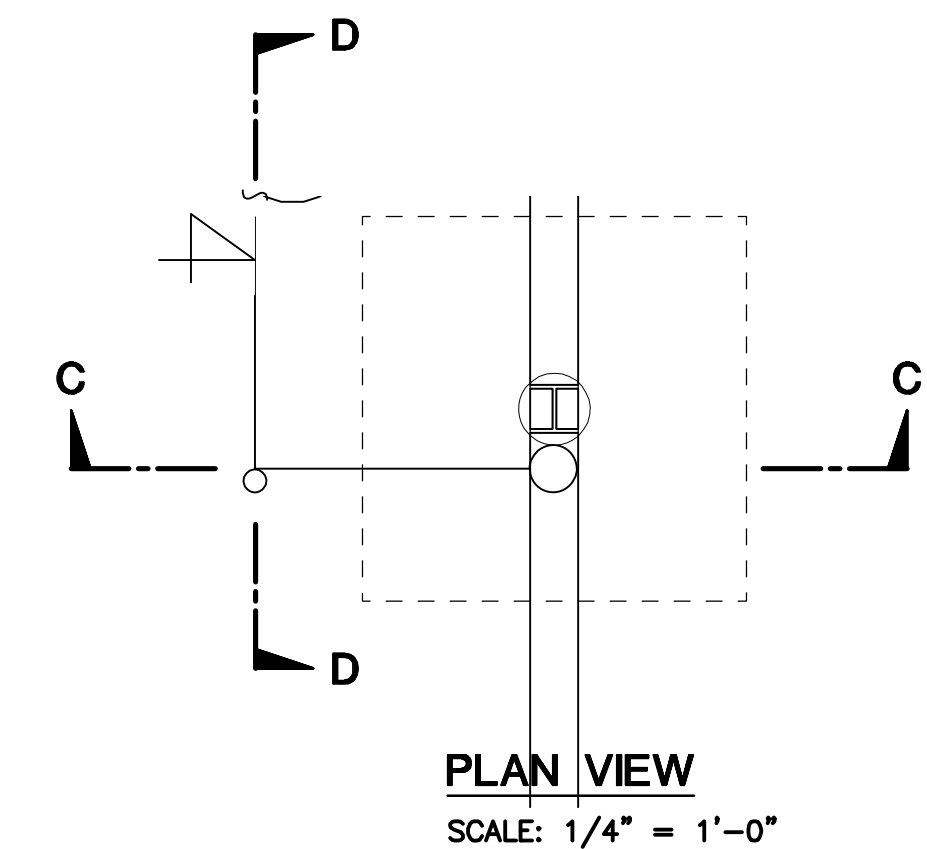
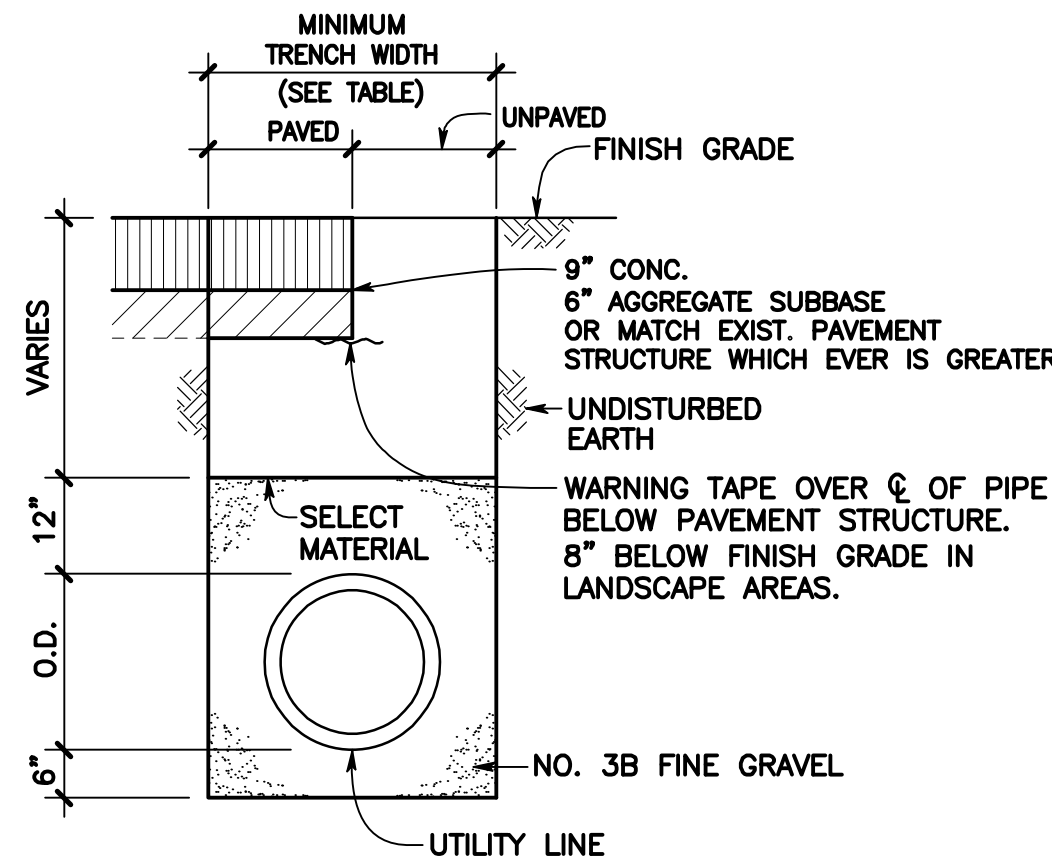
Prepared for:
 DEPARTMENT OF TRANSPORTATION
 COUNTY OF MAUI
 2145 KACHU STREET
 WAILUKU, HAWAII 96793

TRANSIT HUB
 QBS NO. Q-TR-18-01
 KAHULUI, MAUI, HAWAII

DRAINAGE DETAILS

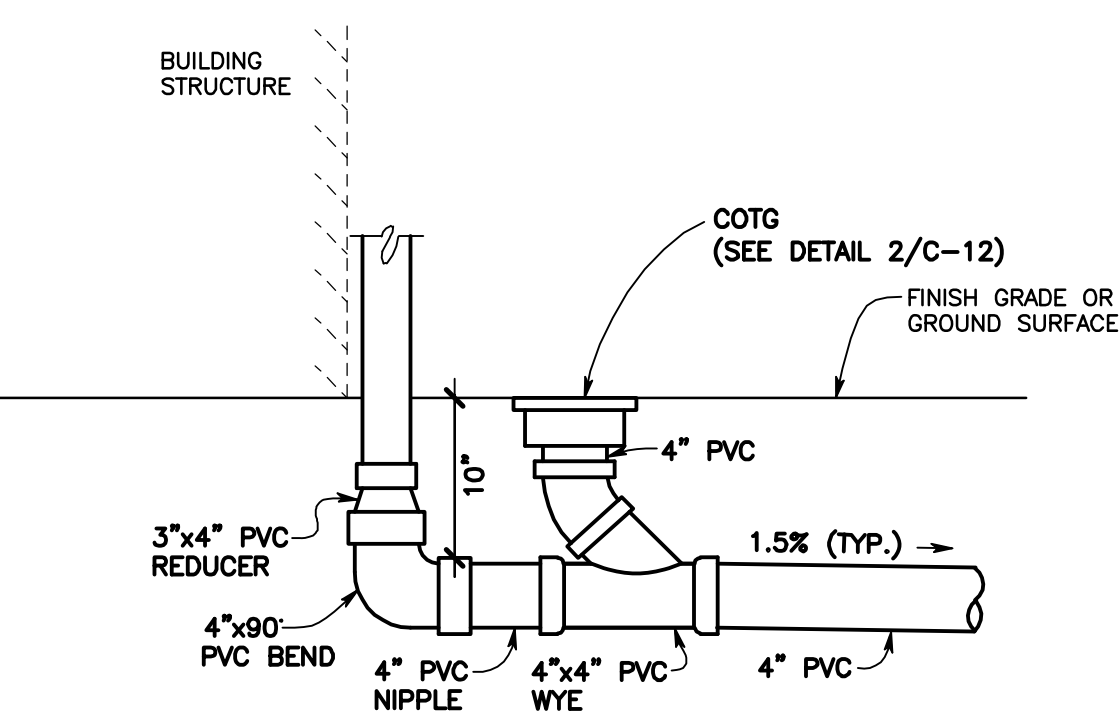


PIPE SIZE	MIN. TRENCH WIDTH
<4"	12"
4"	24"
6"	24"
8"	24"
12"	30"
18"	36"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
84"	138"

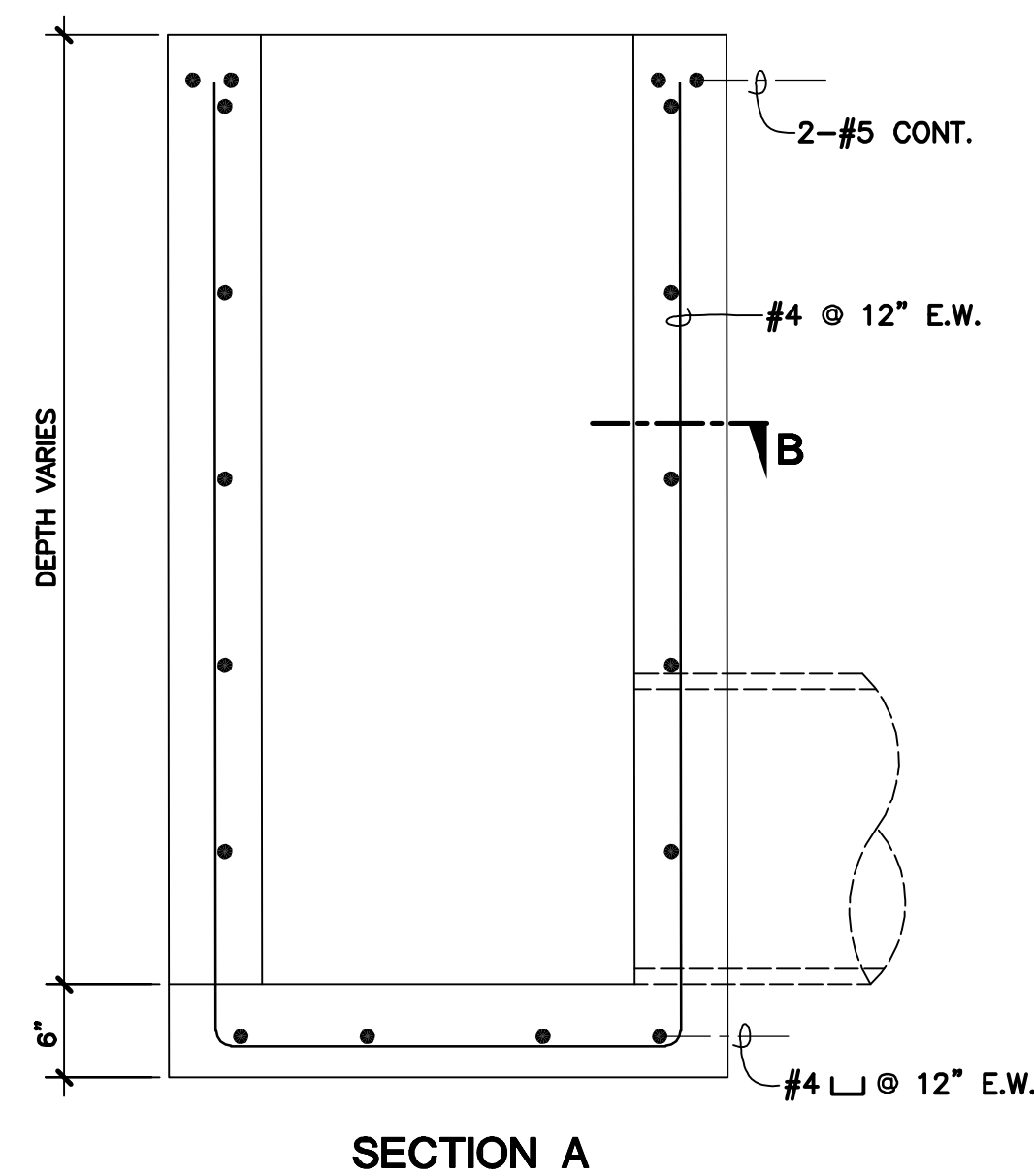
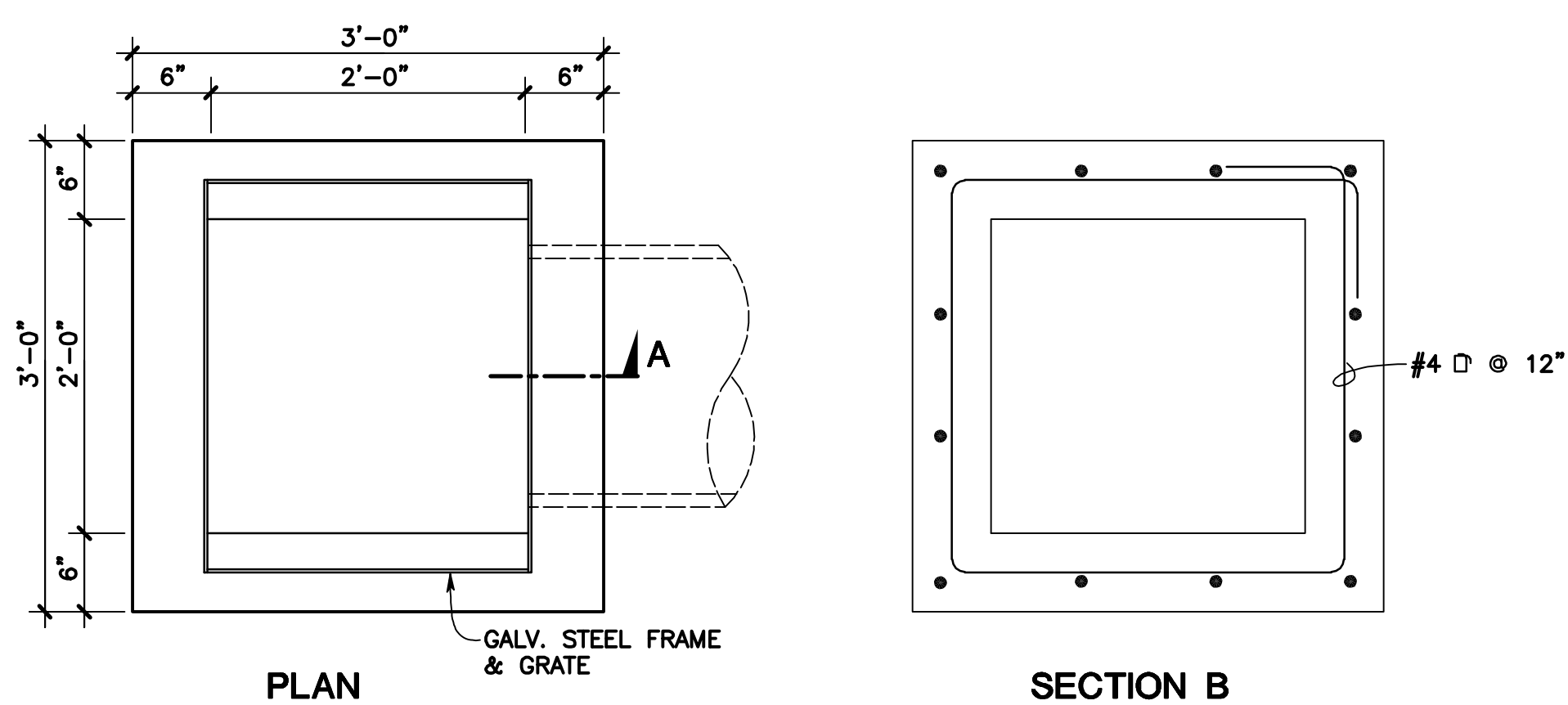


NOTE: PVC FITTINGS & PIPE ASTM 3034 SDR 35

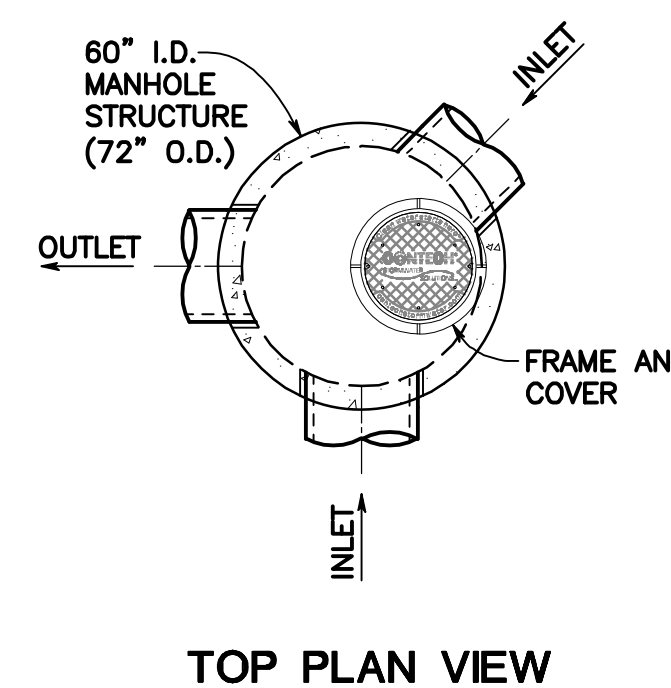
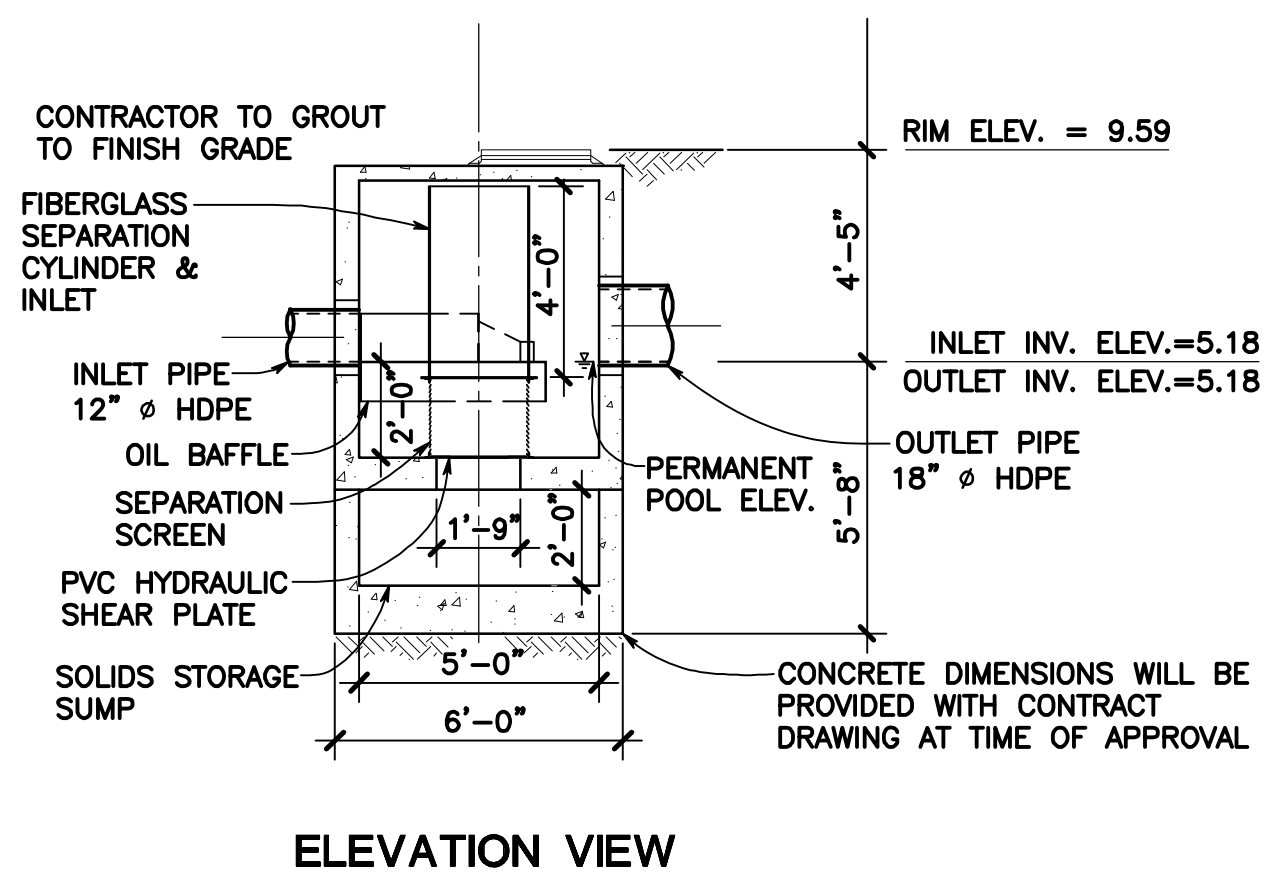
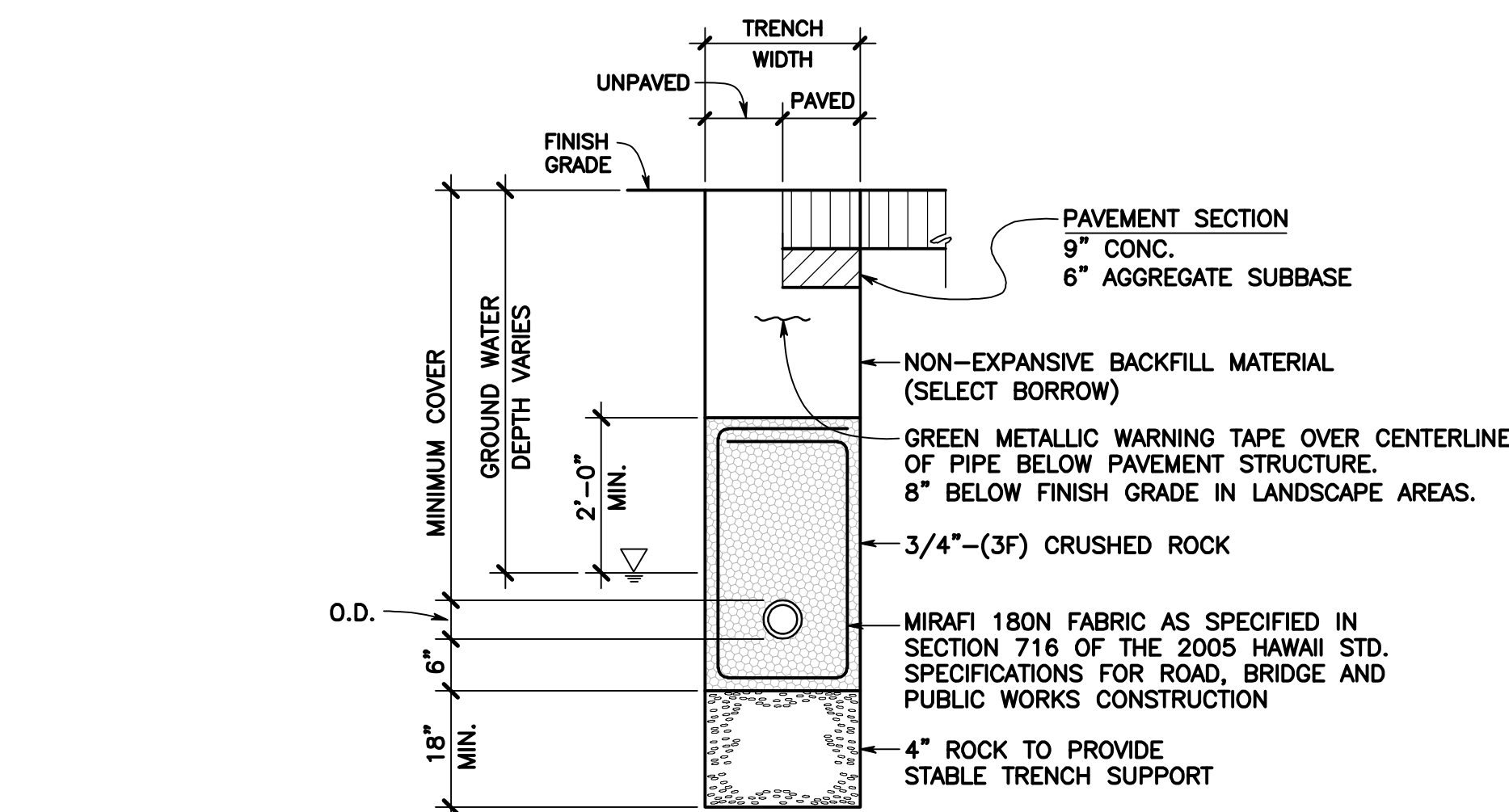
SECTION D-D
 SCALE: 1" = 1'-0"



NOTE: PVC FITTINGS & PIPE ASTM 3034 SDR 35



1
C-7
2'x2' GRATED DRAIN INLET GDI #1, #2, #3
 SCALE: 1/2" = 1'-0"



4
C-7
MODEL CDS2025-5-C STORM WATER QUALITY SYSTEM (DMH#2)
 SCALE: 1/4" = 1'-0"



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 M. Silva
 LICENSE EXPIRES: 04/30/2020

DESIGNED BY: O.M.
 DRAWN BY: O.M.
 CHECKED BY: M.S.
 DATE: AUGUST 7, 2020
 FILE NO: COMB1

SHEET
C-7
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2145 KAACHU STREET
WAILUKU, HAWAII 96793

TRANSIT HUB

QBS NO. Q-TR-18-01

KAHULUI, MAUI, HAWAII

CHAMBER SYSTEM DETAILS



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LICENSE EXPIRES: 04/30/2020

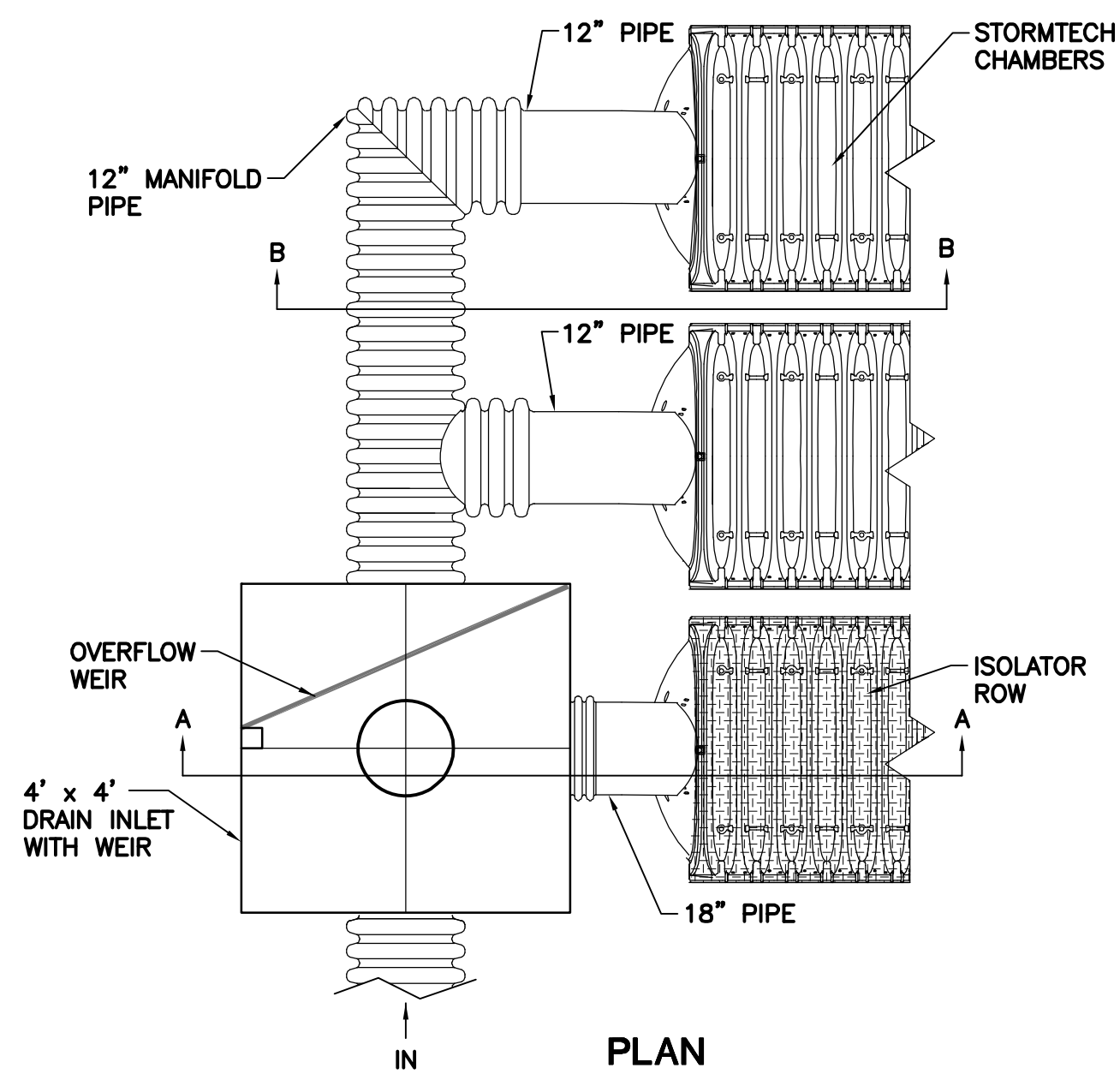
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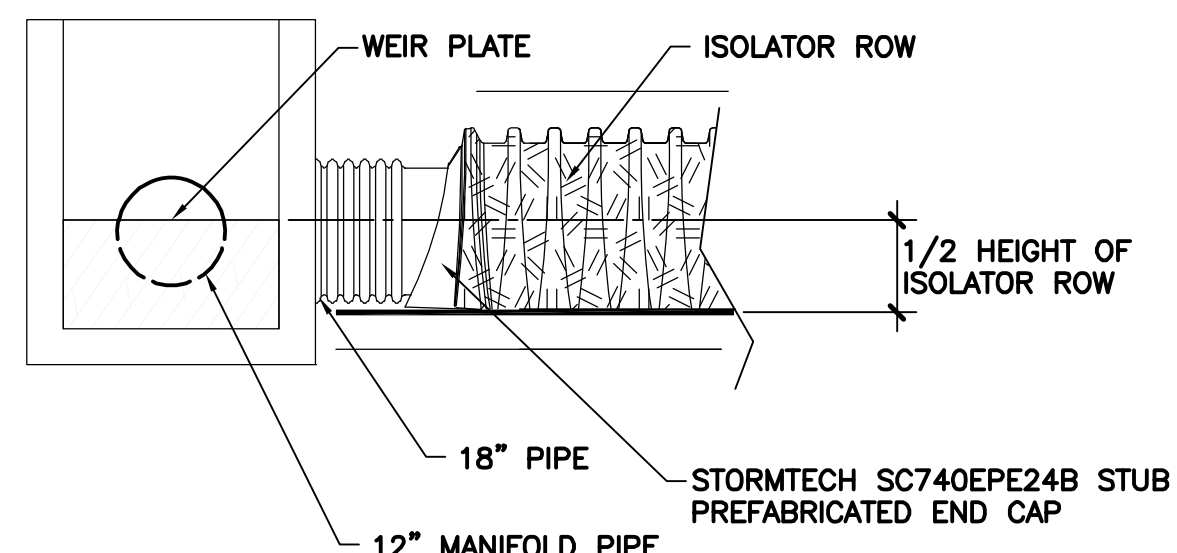
C-8

9

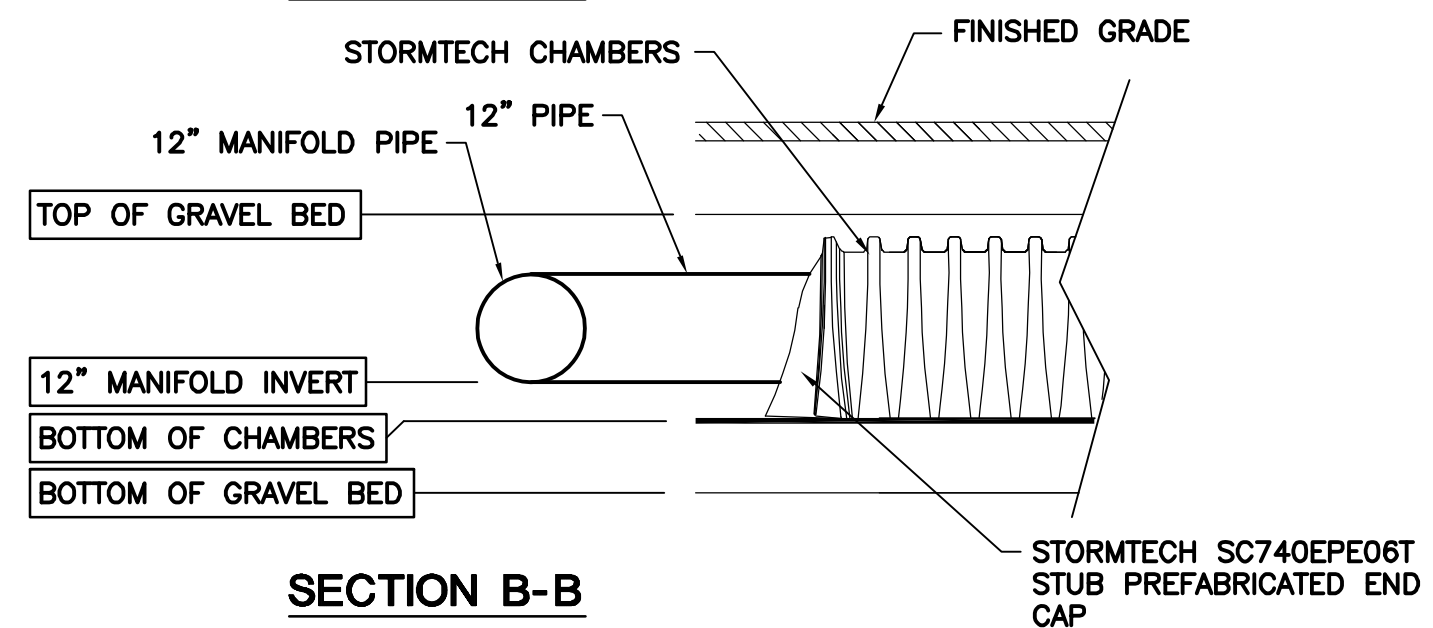
OF



PLAN



SECTION A-A

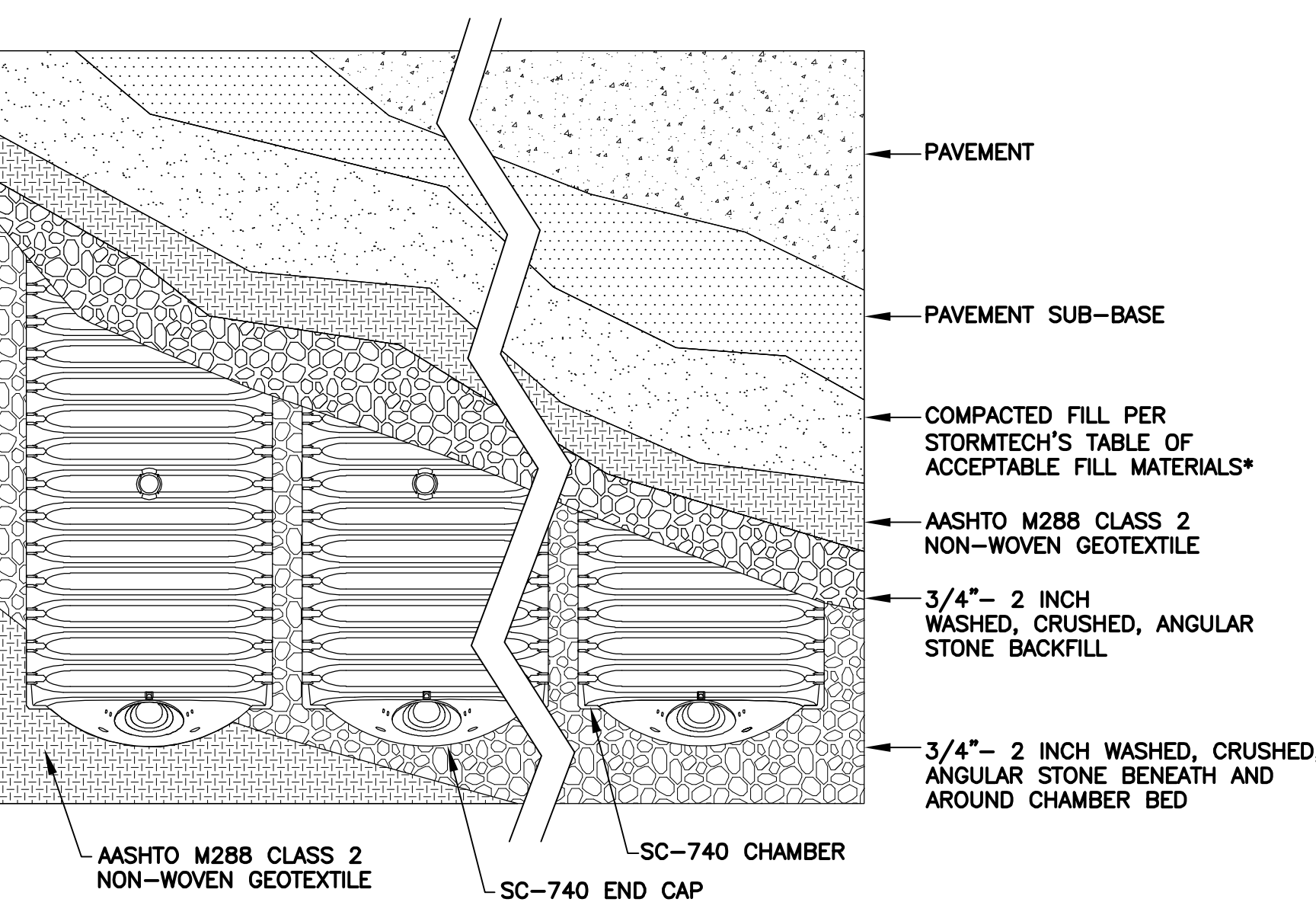


SECTION B-B

DESIGN DATA	BASIN #1
TOP OF GRAVEL BED EL. (FEET)	7.00
12" MANIFOLD INVERT EL. (FEET)	4.00
18" PIPE INVERT EL. (FEET)	4.00
BOTTOM OF CHAMBERS EL. (FEET)	4.00
BOTTOM OF GRAVEL BED EL. (FEET)	3.50
EXISTING WATER TABLE (FEET)	3.15

1 DIVERTER DMH - SECTION THRU MANIFOLD PIPE

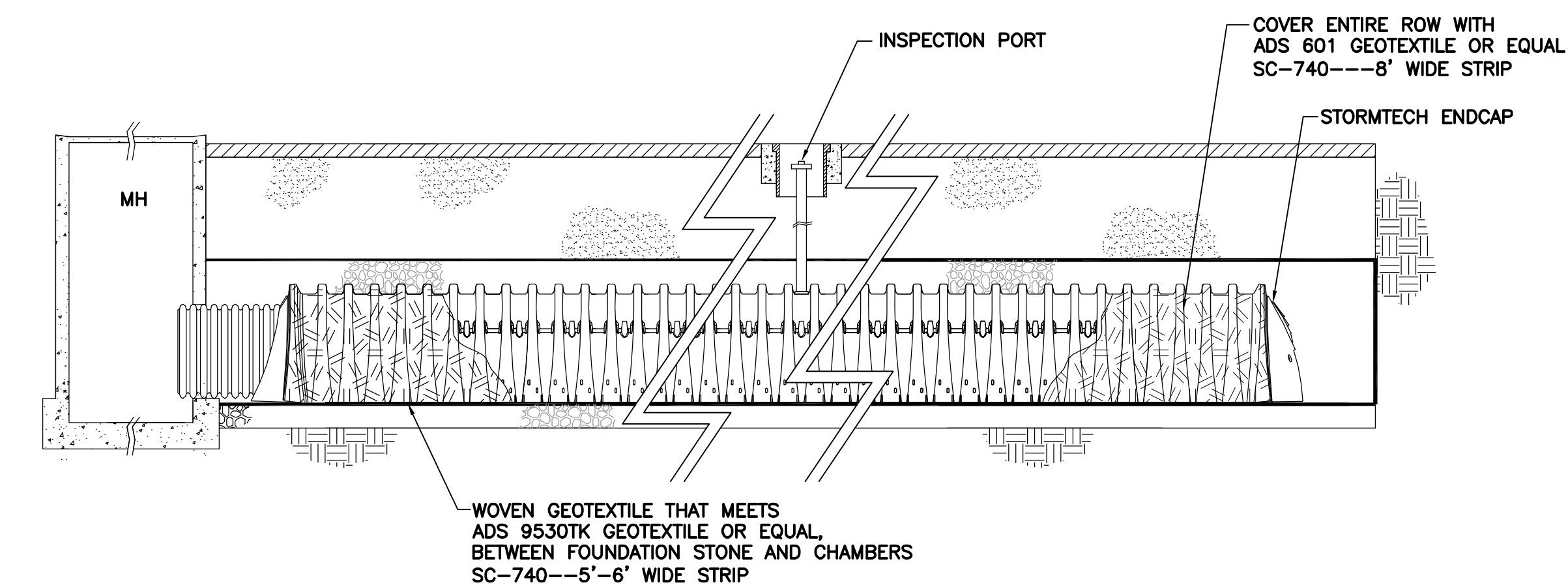
SCALE: NOT TO SCALE



STORMTECH SC-740 CHAMBER SYSTEM PLAN VIEW DETAIL

5
C-8

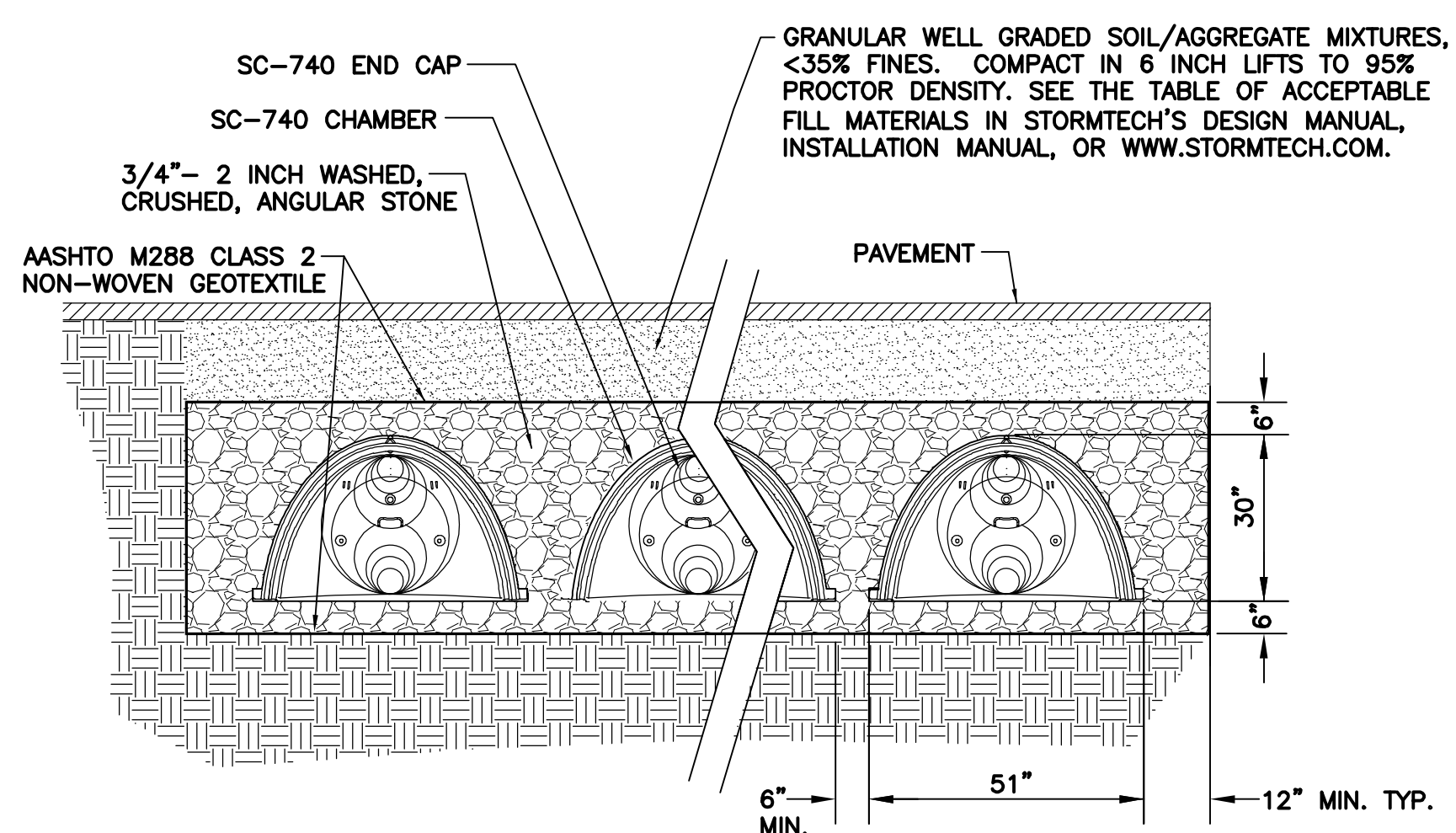
NOT TO SCALE



2 ISOLATOR ROW DETAIL

2
C-8

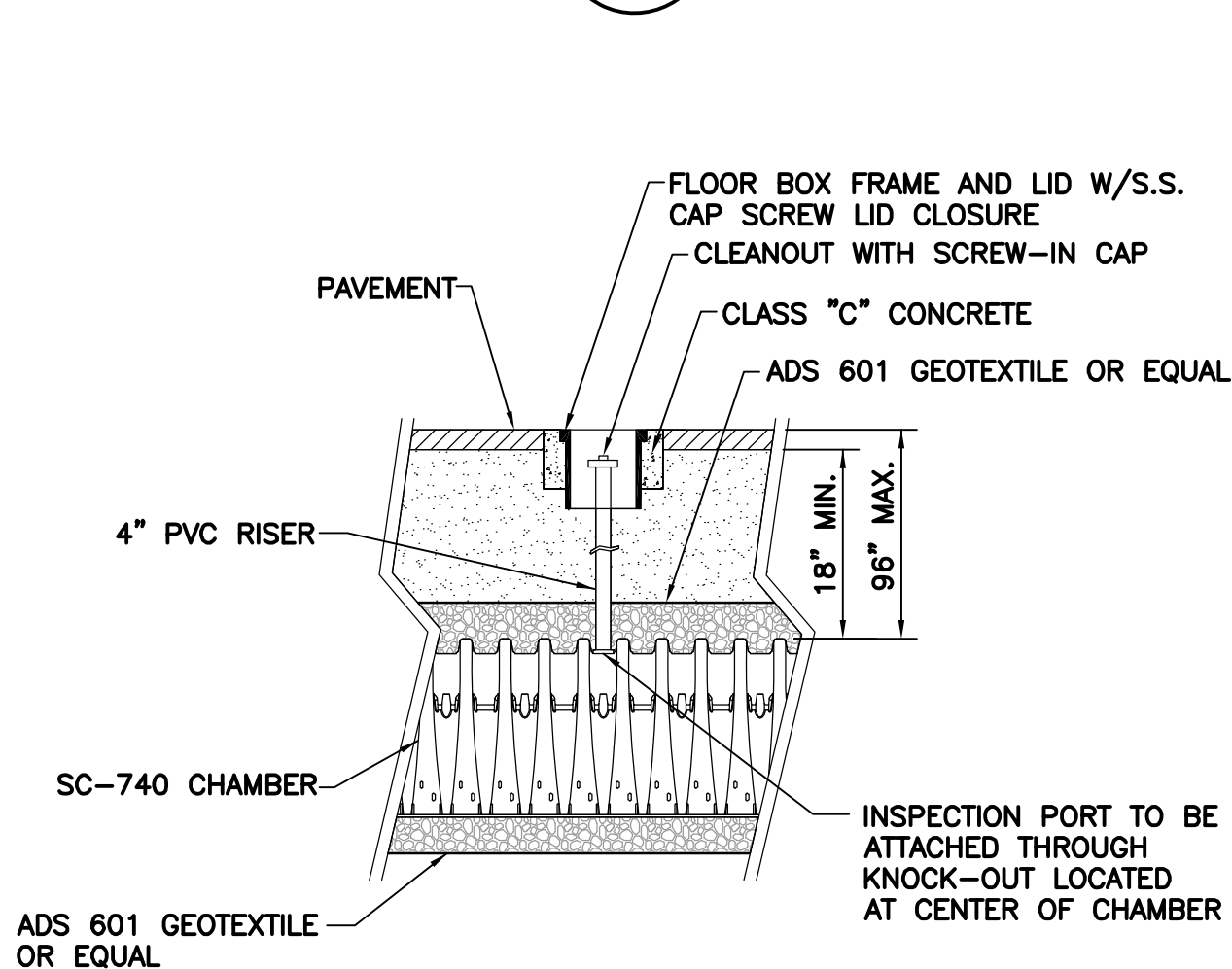
NOT TO SCALE



DETENTION-RETENTION BASIN TYPICAL CROSS SECTION DETAIL

6
C-8

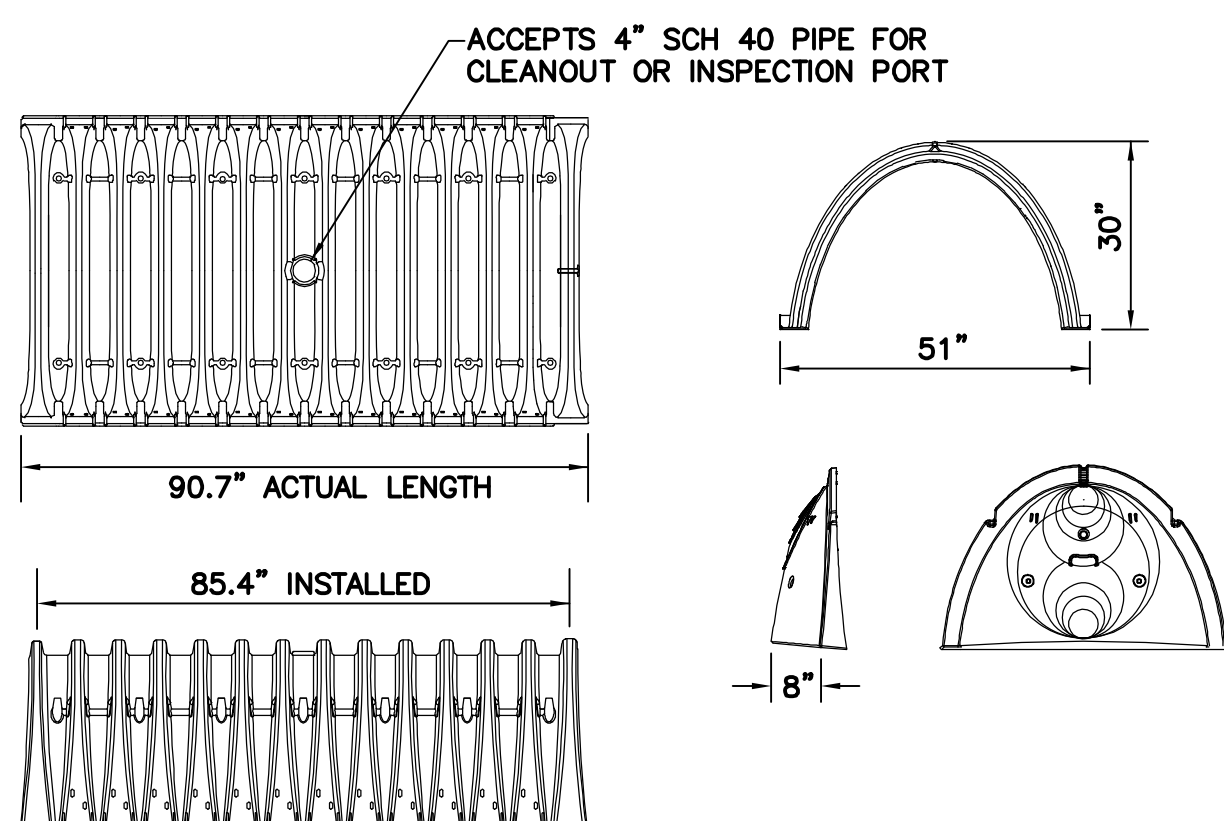
NOT TO SCALE



3 INSPECTION PORT DETAIL

3
C-8

NOT TO SCALE



4 STORMTECH CHAMBER DETAIL

4
C-8

NOT TO SCALE

NOMINAL CHAMBER SPECIFICATIONS
SIZE (W x H x INSTALLED LENGTH) = 51.0" x 30.0" x 85.4"
CHAMBER STORAGE = 45.9 CUBIC FEET
MINIMUM INSTALLED STORAGE = 74.9 CUBIC FEET
WEIGHT = 75 LBS.

CHAMBER SYSTEM NOTES

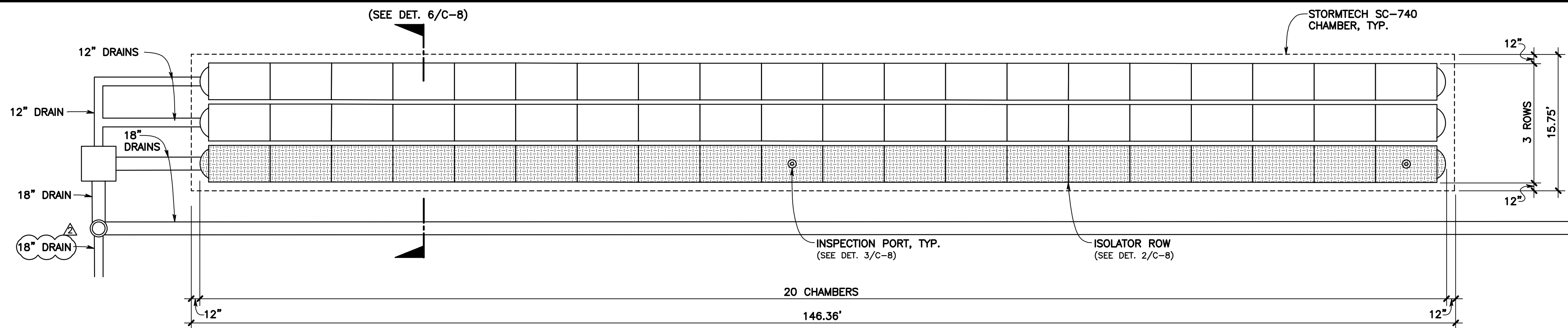
ACCEPTABLE PRODUCTS INCLUDE:
STORMTECH MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC.,
CHAMBERMAXX MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS, INC.,
OR APPROVED EQUAL



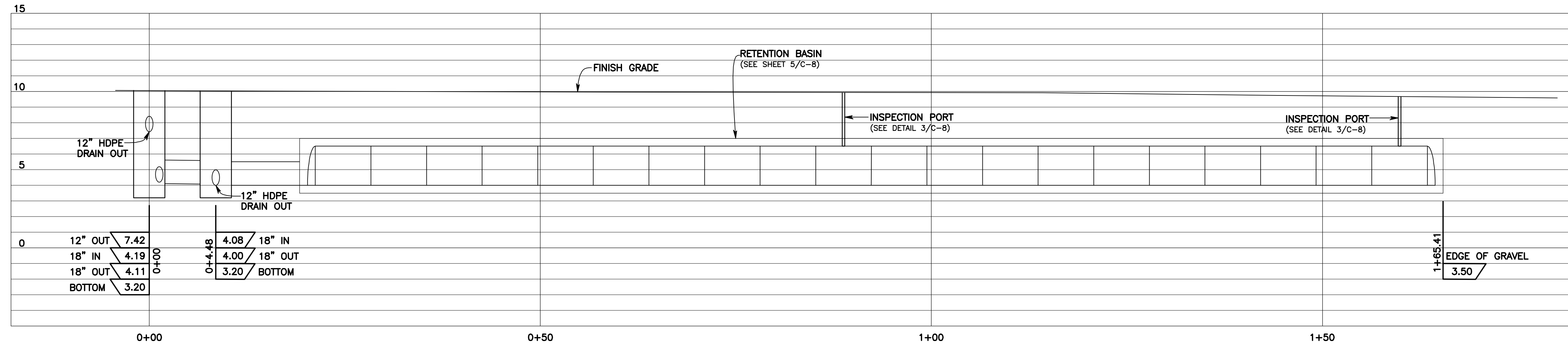
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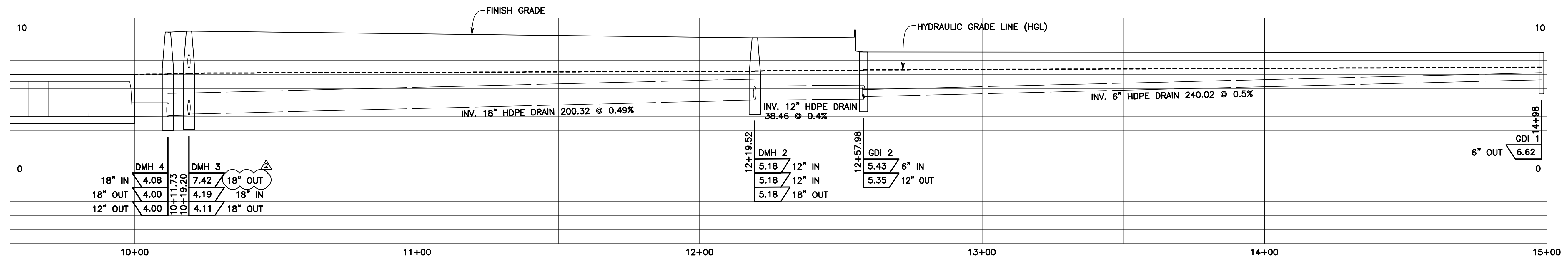
TRANSIT HUB
 QBS NO. Q-TR-18-01
 KAHULUI, MAUI, HAWAII
DRAINAGE PROFILES



PLAN - STORMWATER BASIN #1
 SCALE: 1/8" = 1'-0"

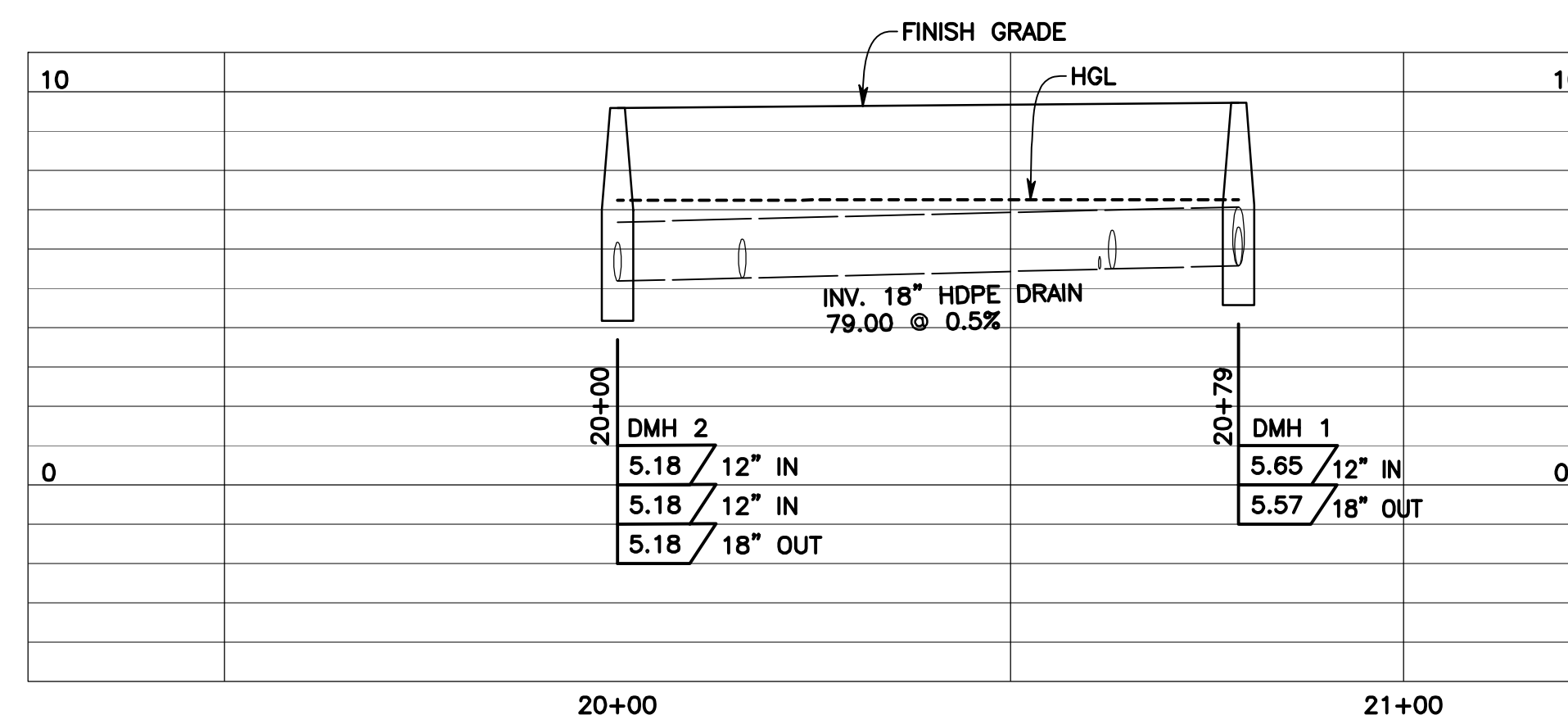


PROFILE - STORMWATER BASIN #1
 SCALE: HORIZ. 1/8" = 1'-0"
 VERT. 1/4" = 1'-0"

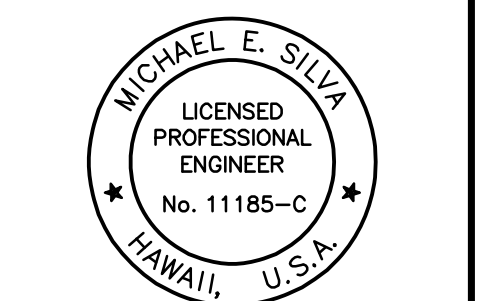


PROFILE - STORMWATER DRAINLINE 1
 SCALE: HORIZ. 1" = 20'
 VERT. 1/4" = 1'-0"

- NOTES:**
- DRAIN LINES SHALL MAINTAIN A 12" MINIMUM VERTICAL CLEARANCE FROM OTHER UTILITIES. NOTIFY PROJECT ENGINEER OF ANY CONFLICT.
 - SEWER MINIMUM COVER SHALL BE 3'-0". WATER MINIMUM COVER SHALL BE 1'-6".



PROFILE - STORMWATER DRAINLINE 2
 SCALE: HORIZ. 1" = 20'
 VERT. 1/4" = 1'-0"



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LICENSE EXPIRES: 04/30/2020
 09/22/20 ADDENDUM NO. 1

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 DRAWN BY: O.M.
 CHECKED BY: M.S.
 DATE: AUGUST 7, 2020
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C-9
 10 OF



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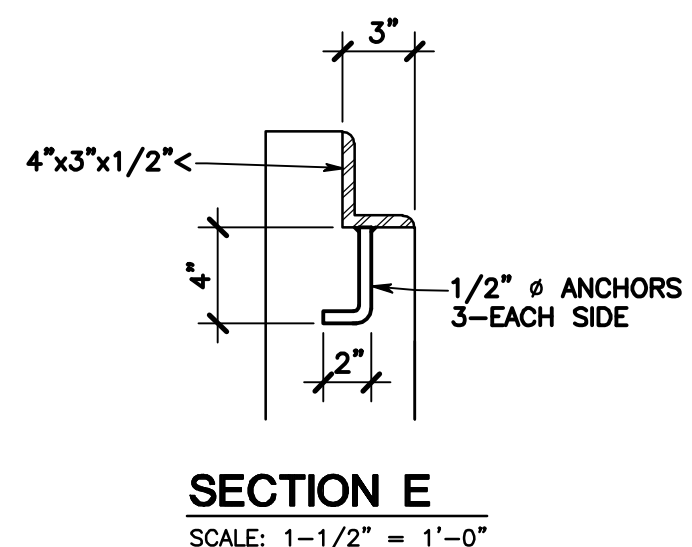
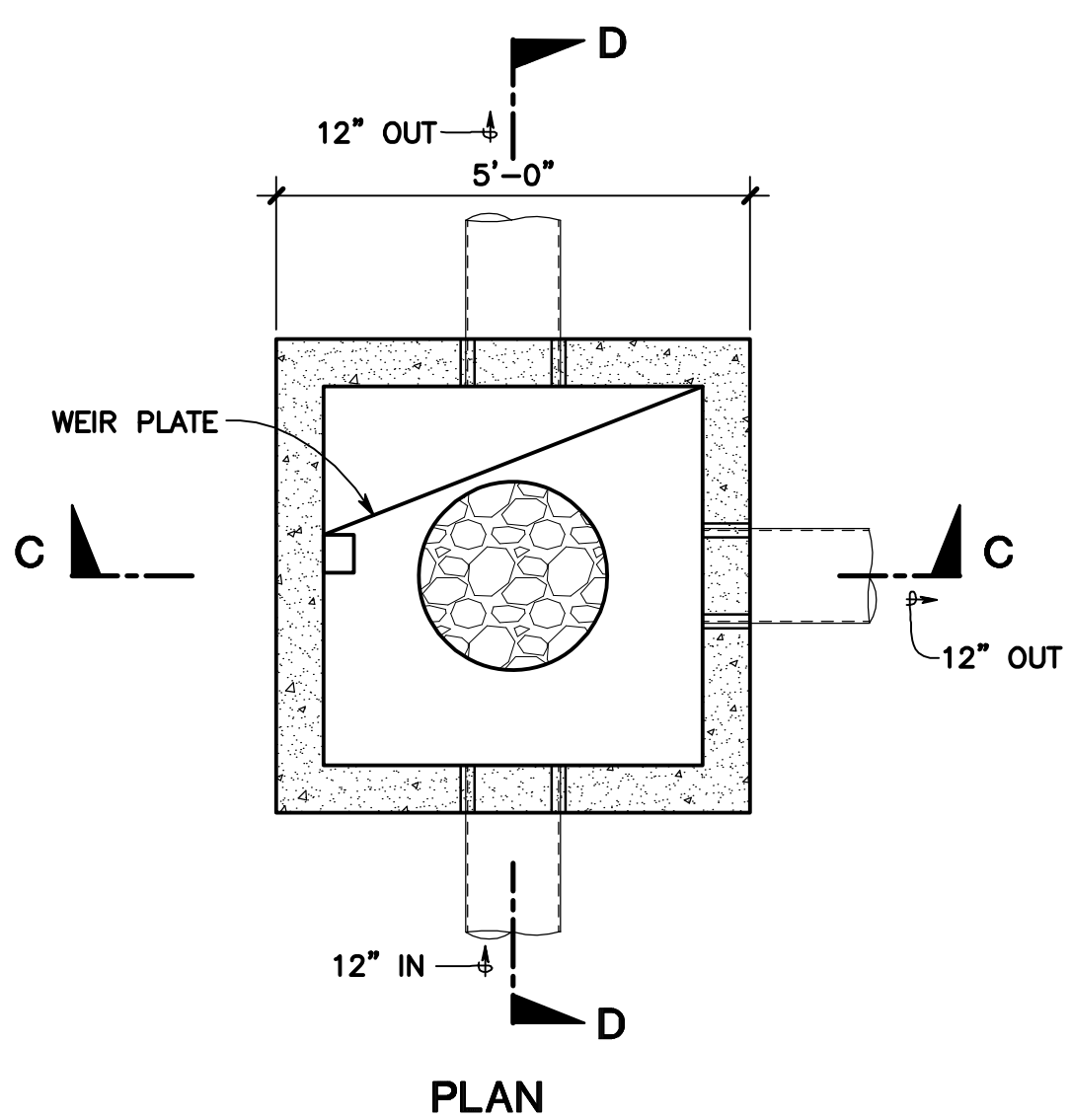
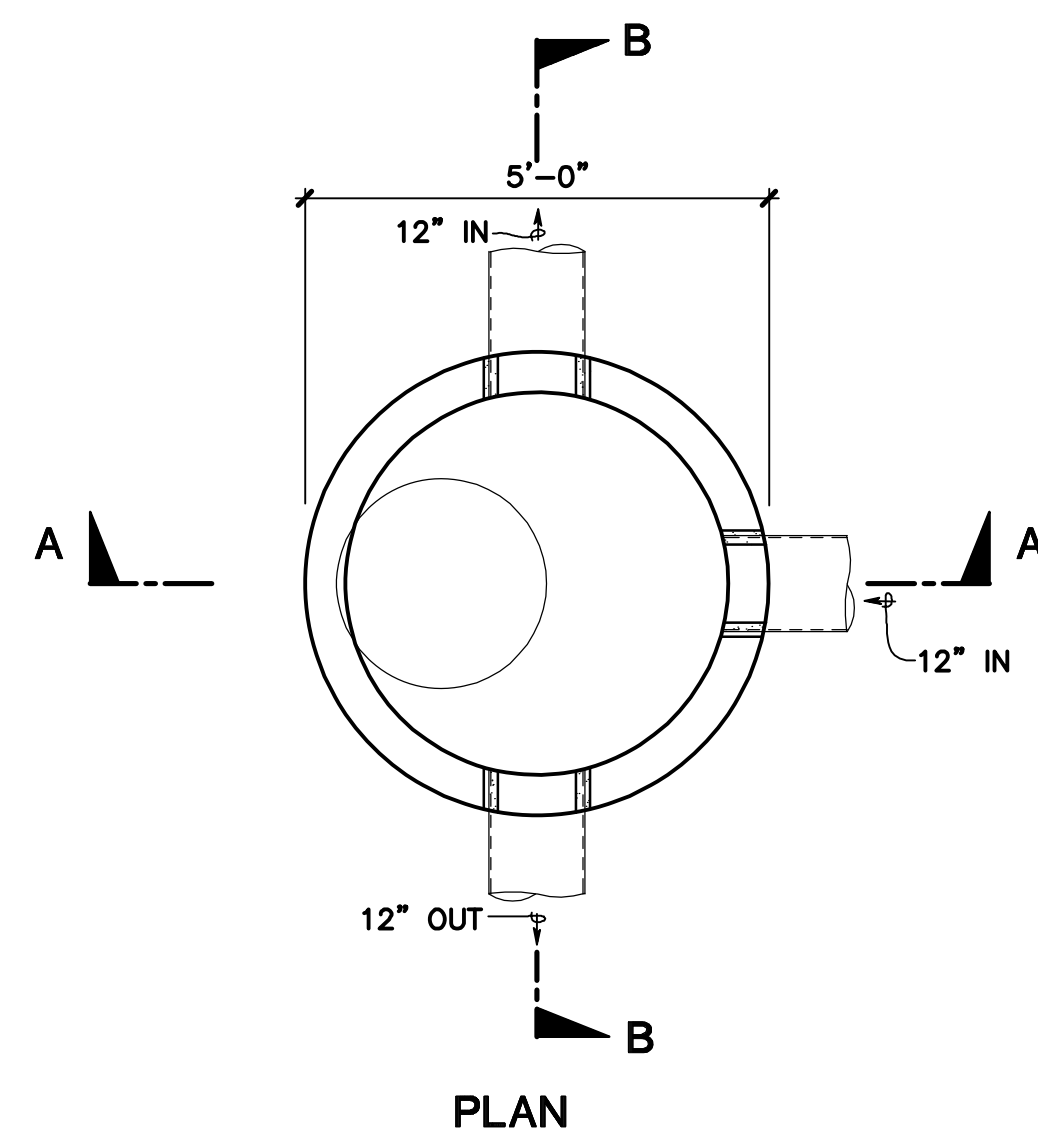
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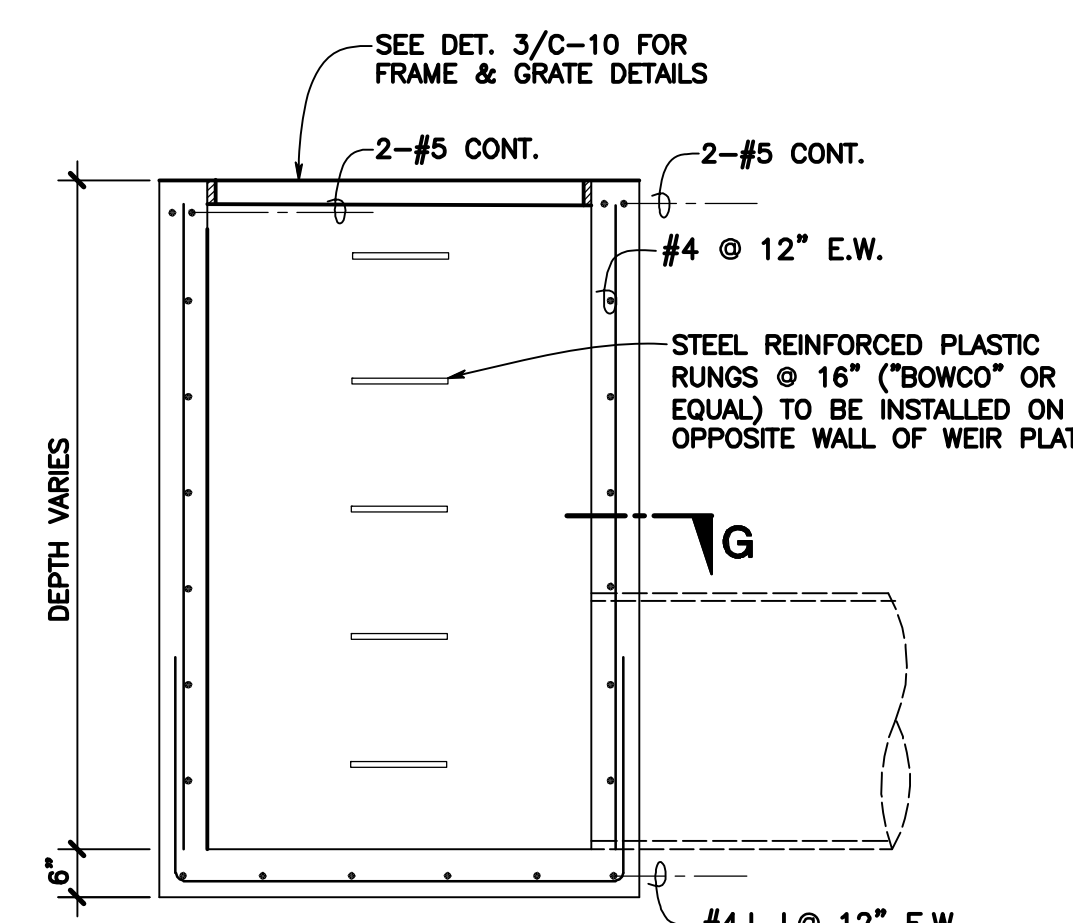
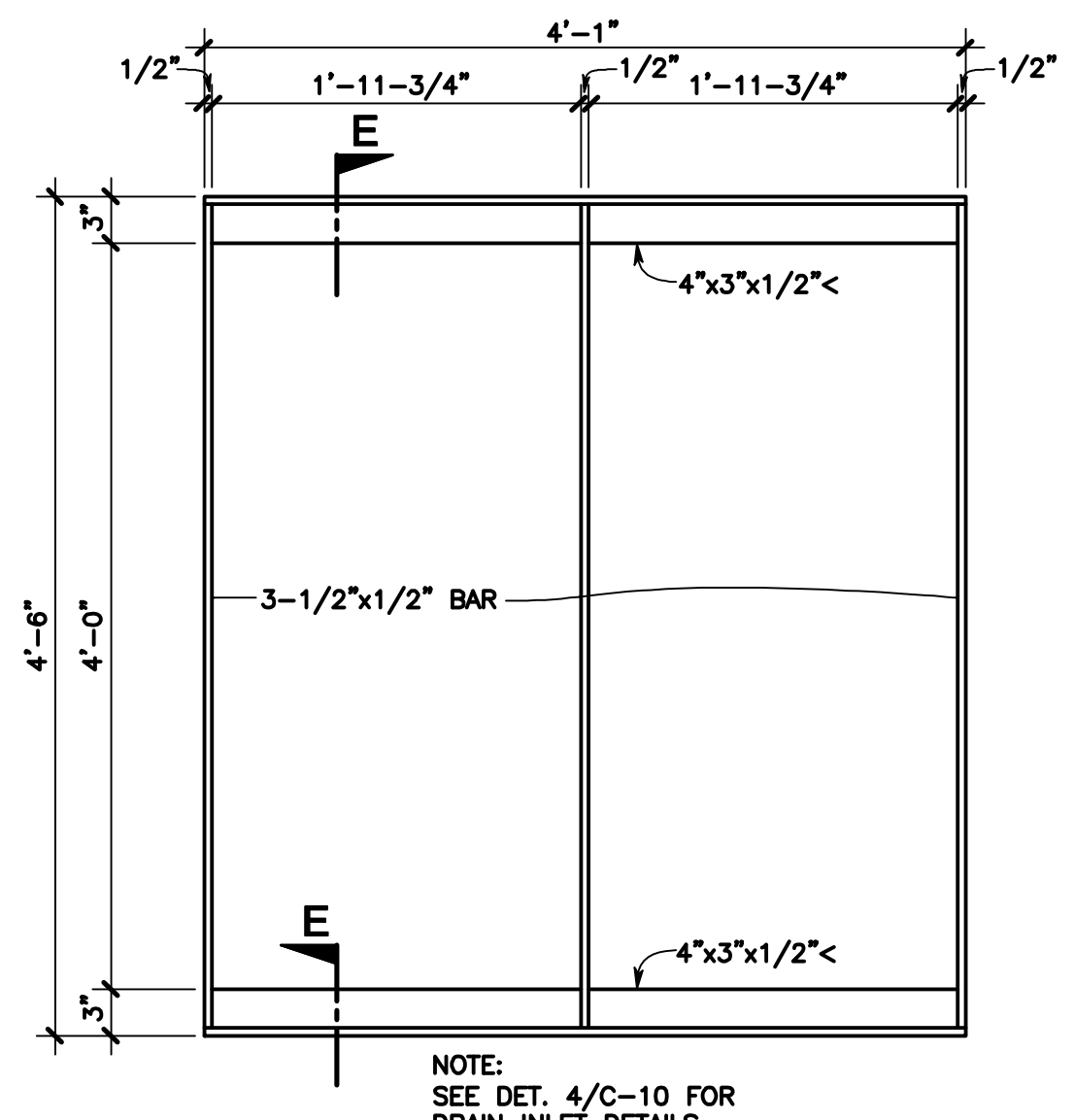
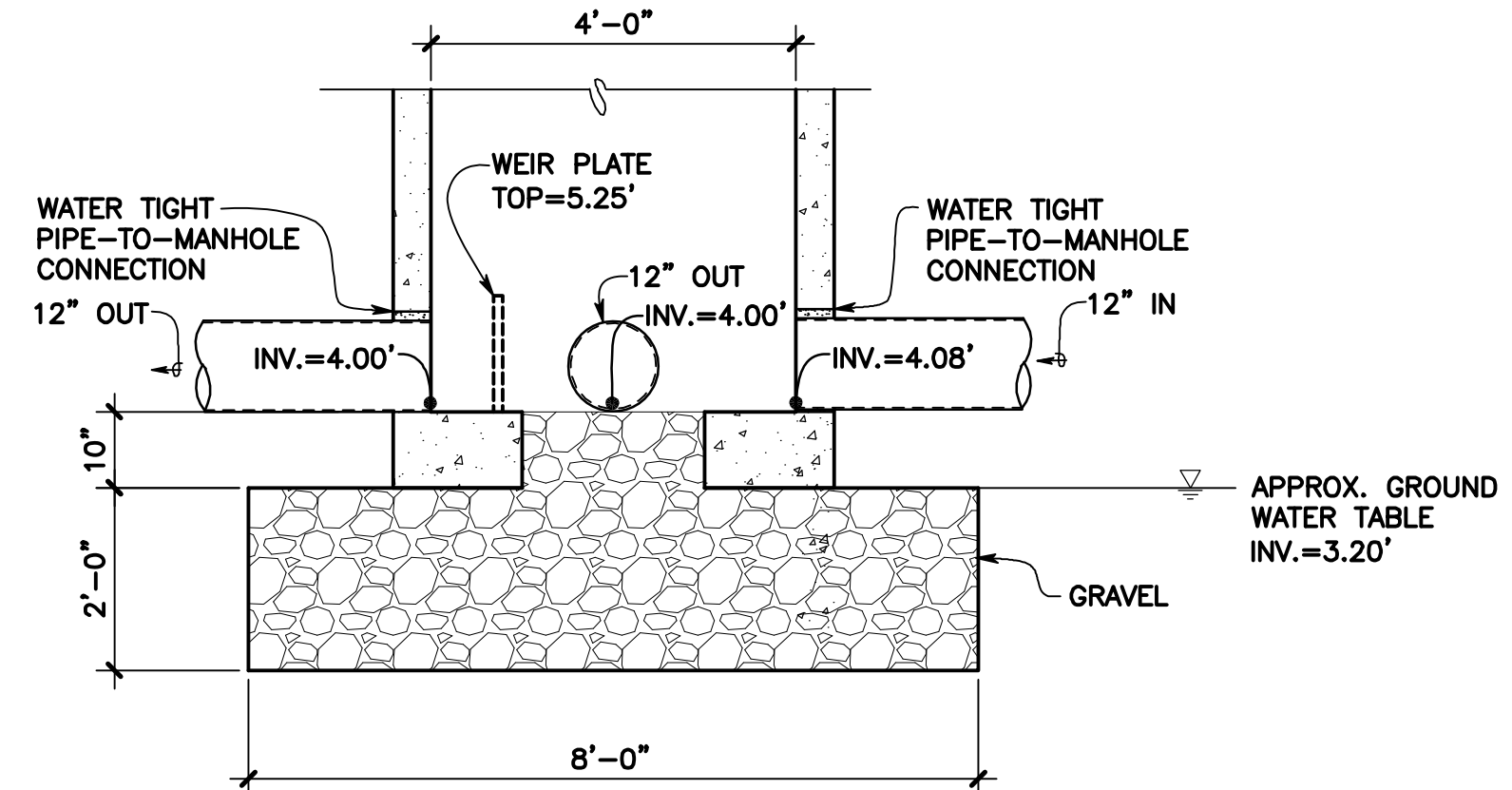
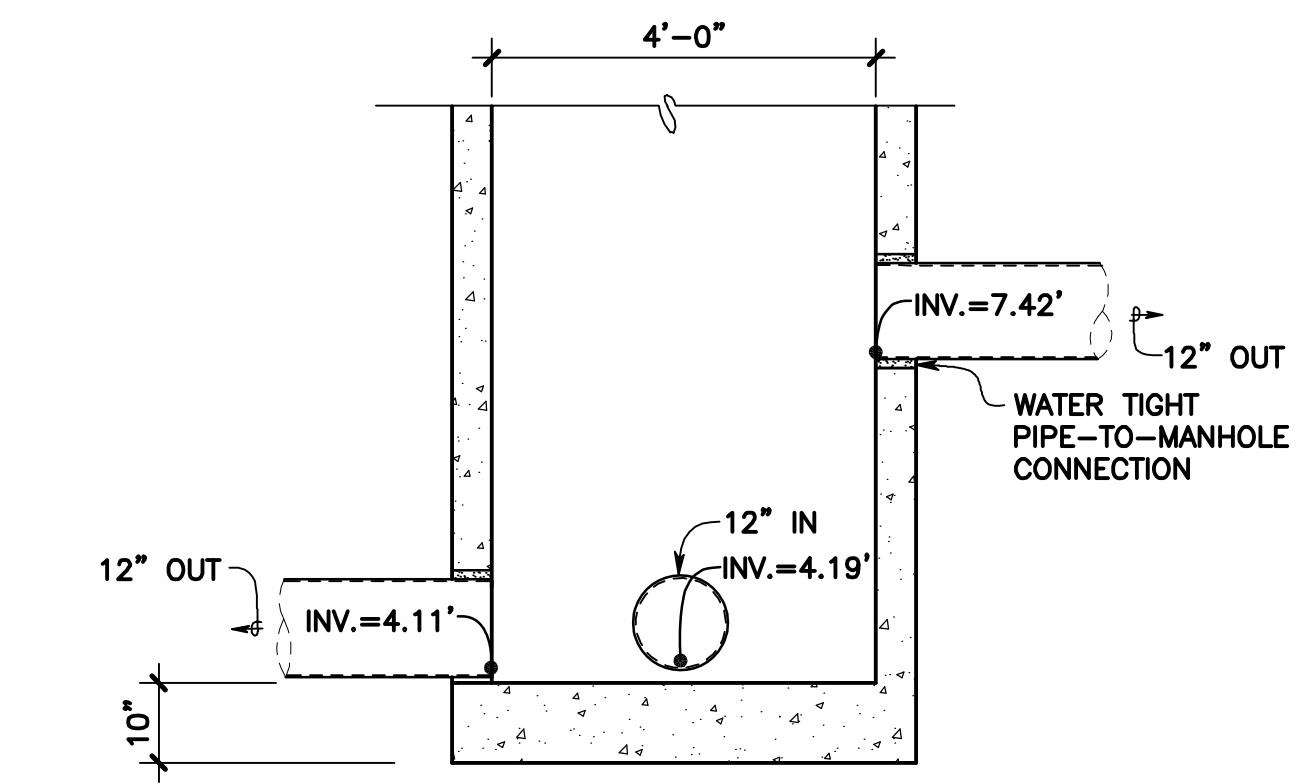
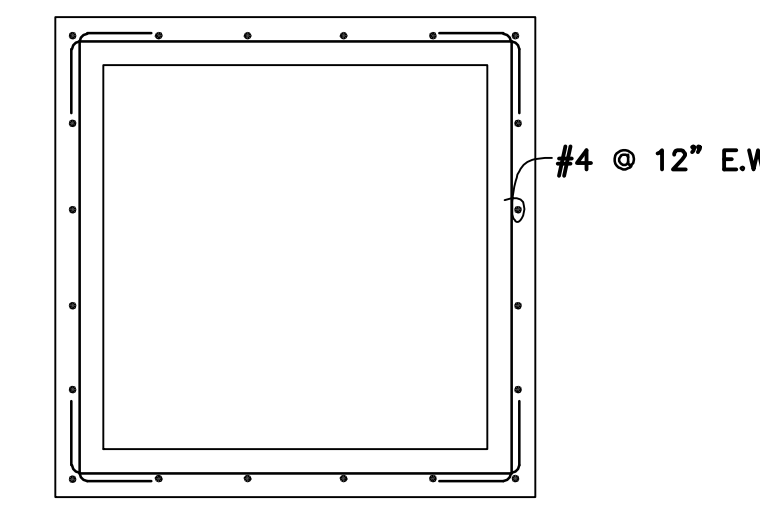
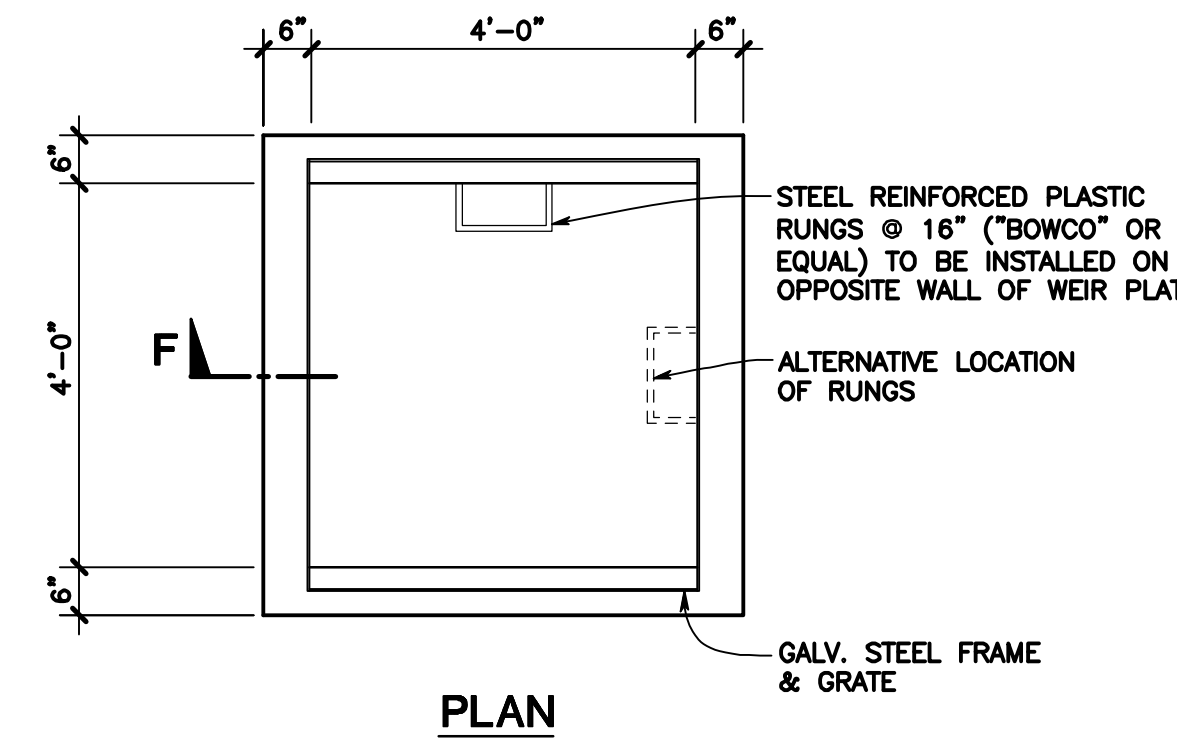
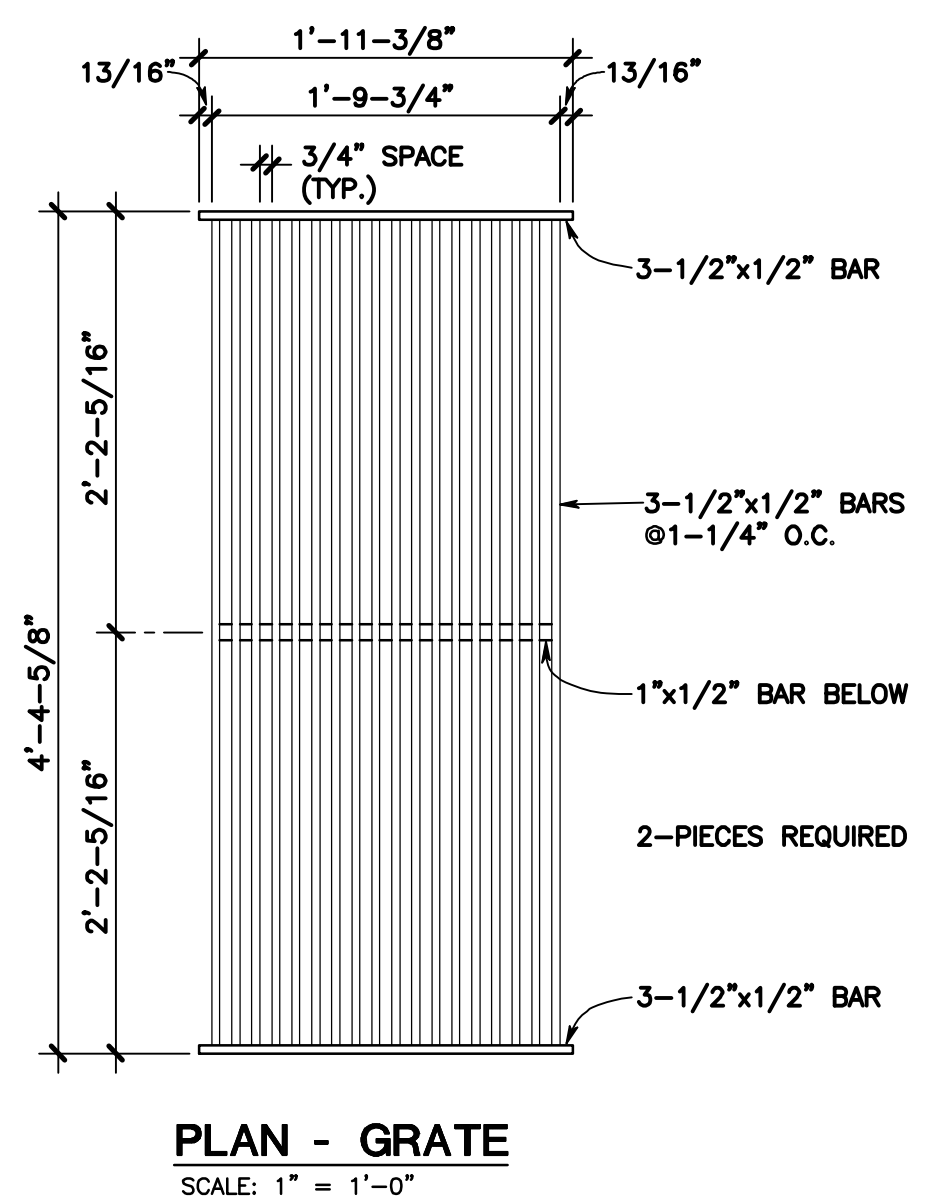
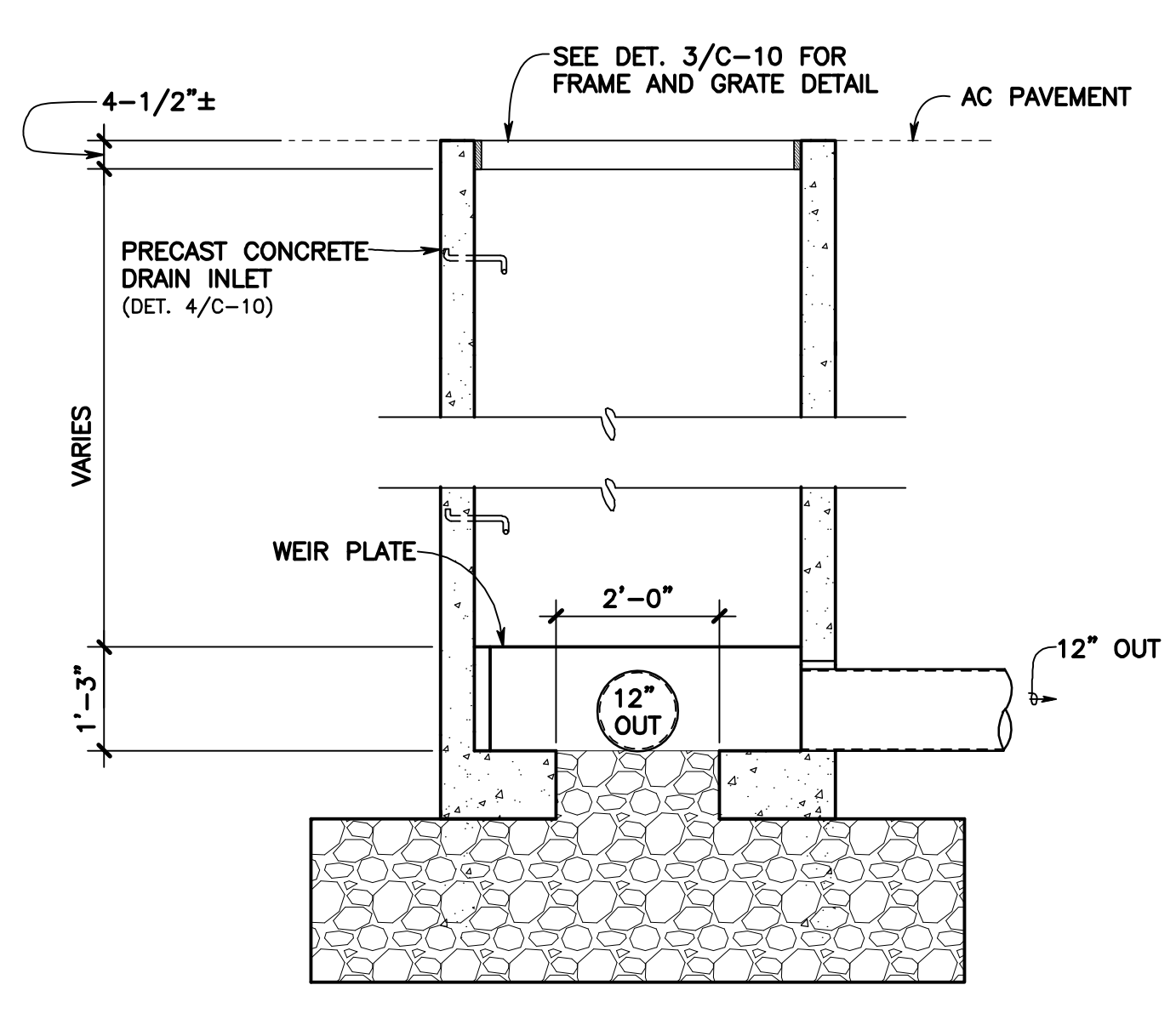
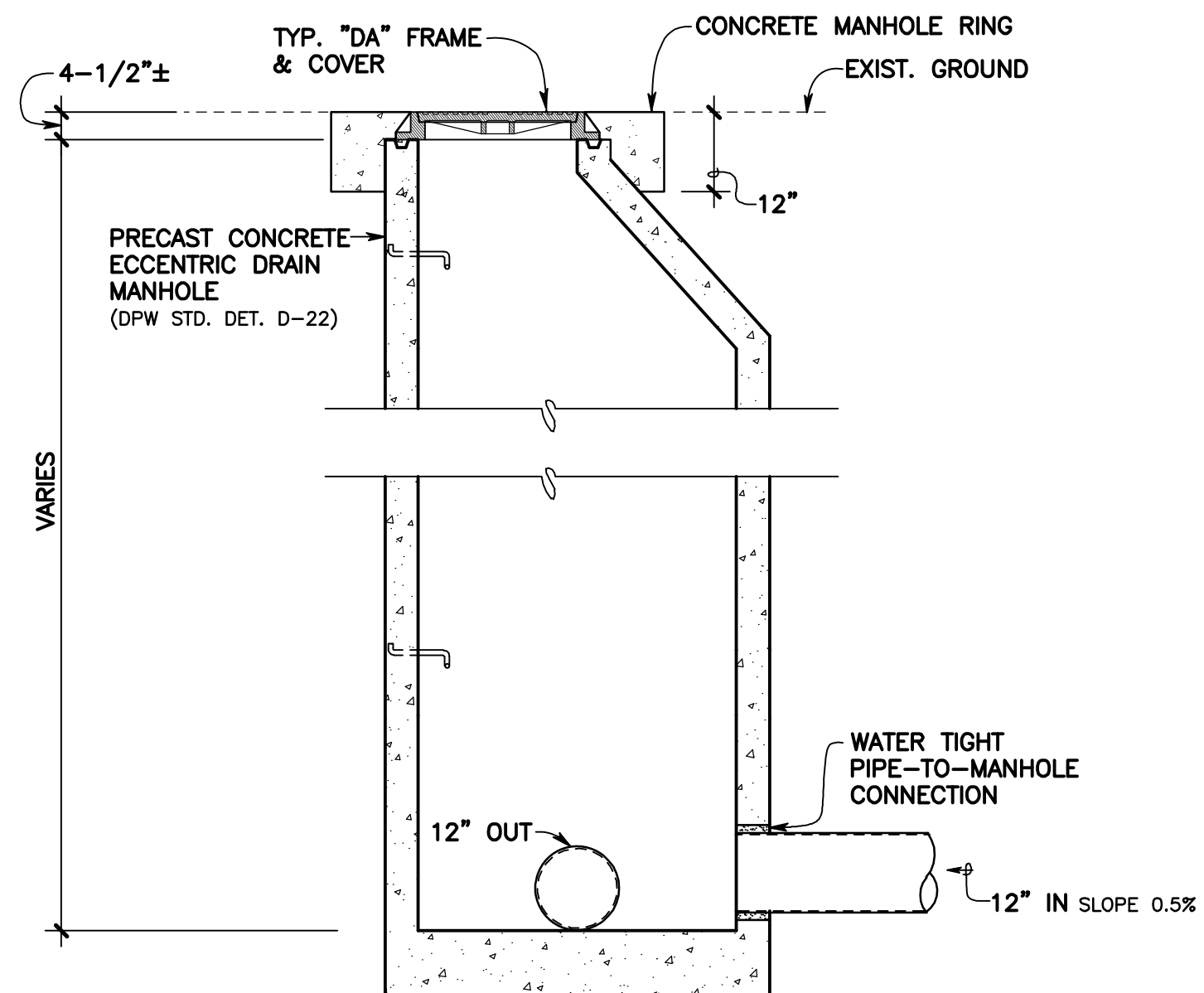
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TRANSIT HUB
QBS NO. Q-TR-18-01
KAHULUI, MAUI, HAWAII

DRAINAGE MANHOLE DETAILS



DRAIN INLET & MANHOLE NOTES
1. FOR DRAIN INLETS AND MANHOLES WITHIN PAVED AREAS, CONSTRUCT TOP OF STRUCTURE TO MATCH SLOPE OF PAVEMENT.

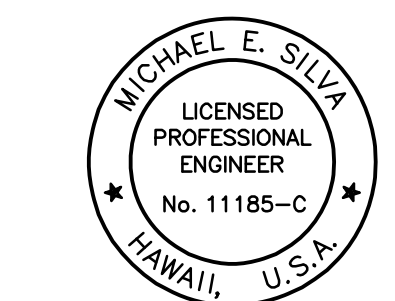


3
C-10
FRAME & GRATE FOR 4'x4' DRAIN INLET
SCALE AS NOTED

4
C-10
4'x4' DRAIN INLET
SCALE: 1/2" = 1'-0"

1
C-10
DMH#3 MANHOLE DETAIL
SCALE: 1/2" = 1'-0"

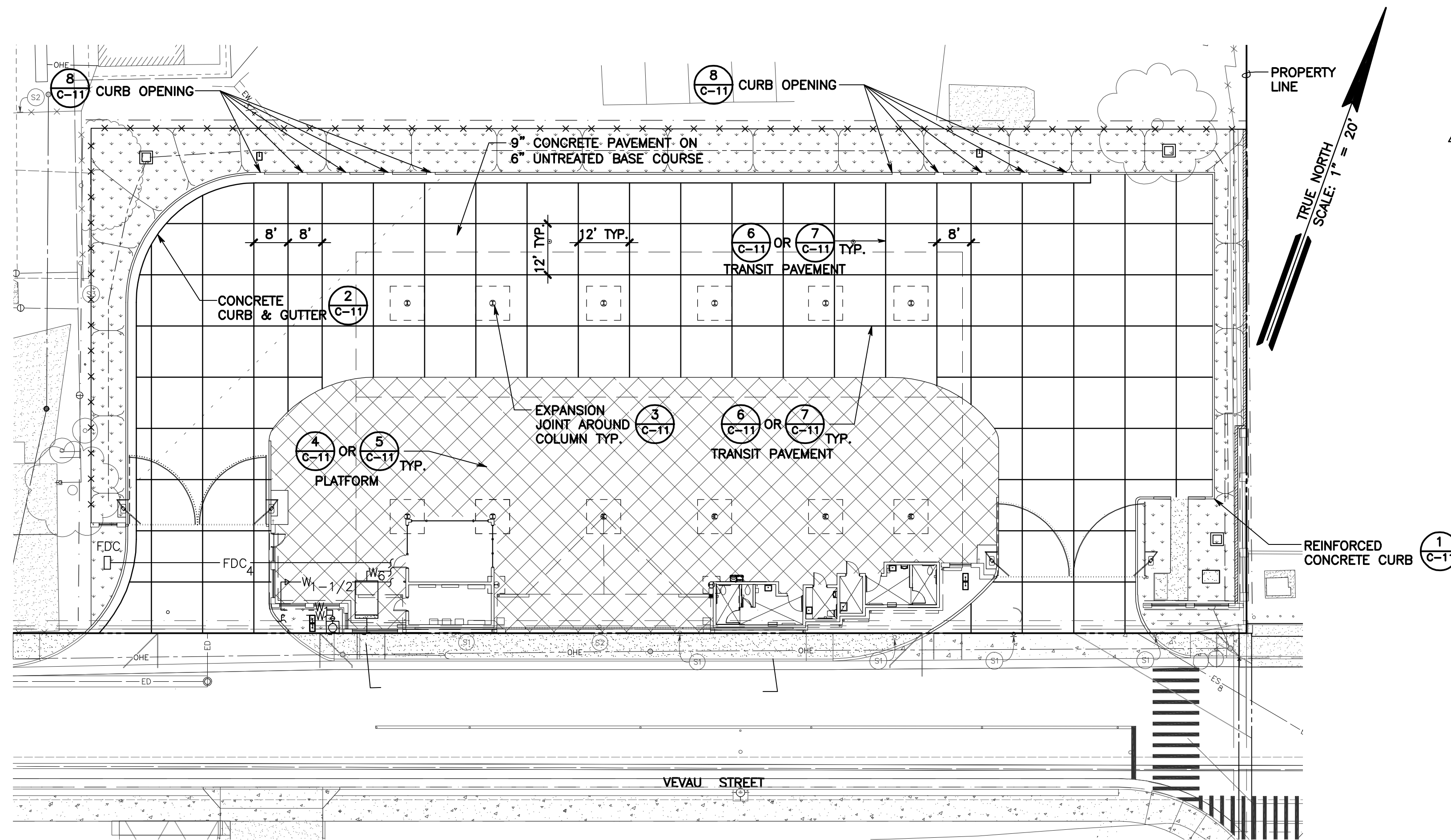
2
C-10
DIVERTER DMH#4 DETAIL
SCALE: 1/2" = 1'-0"



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M. Silva
LICENSE EXPIRES: 04/30/2020

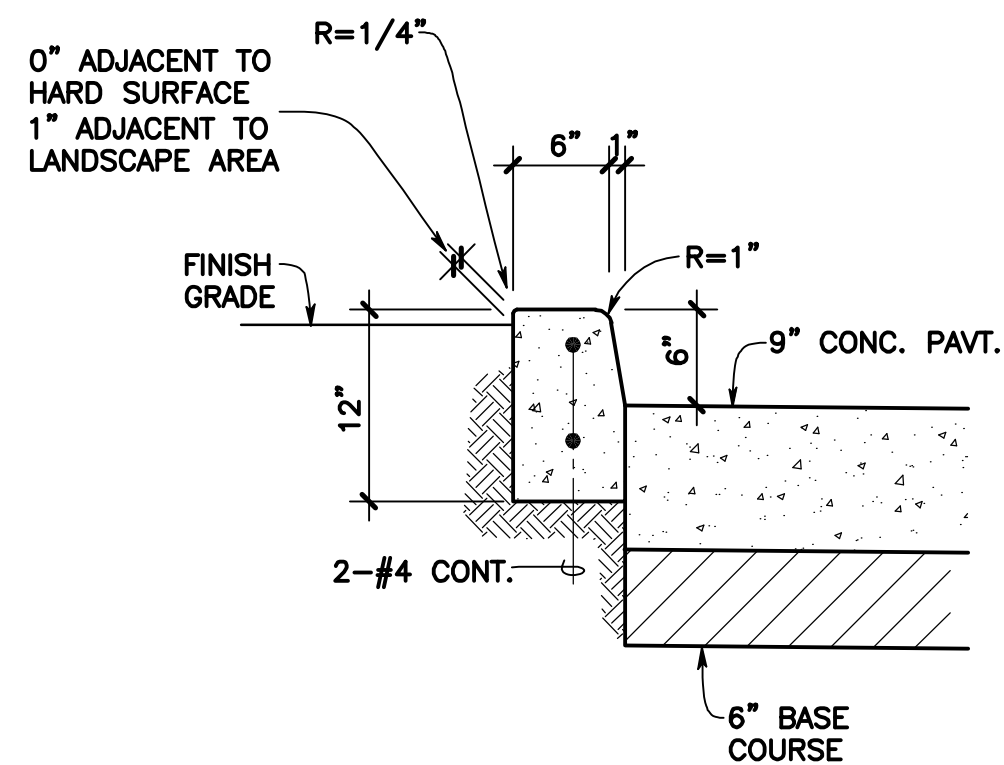
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DRAWN BY: O.M.
CHECKED BY: M.S.
DATE: AUGUST 7, 2020
FILE NO: COMB1

SHEET
C-10
11 OF

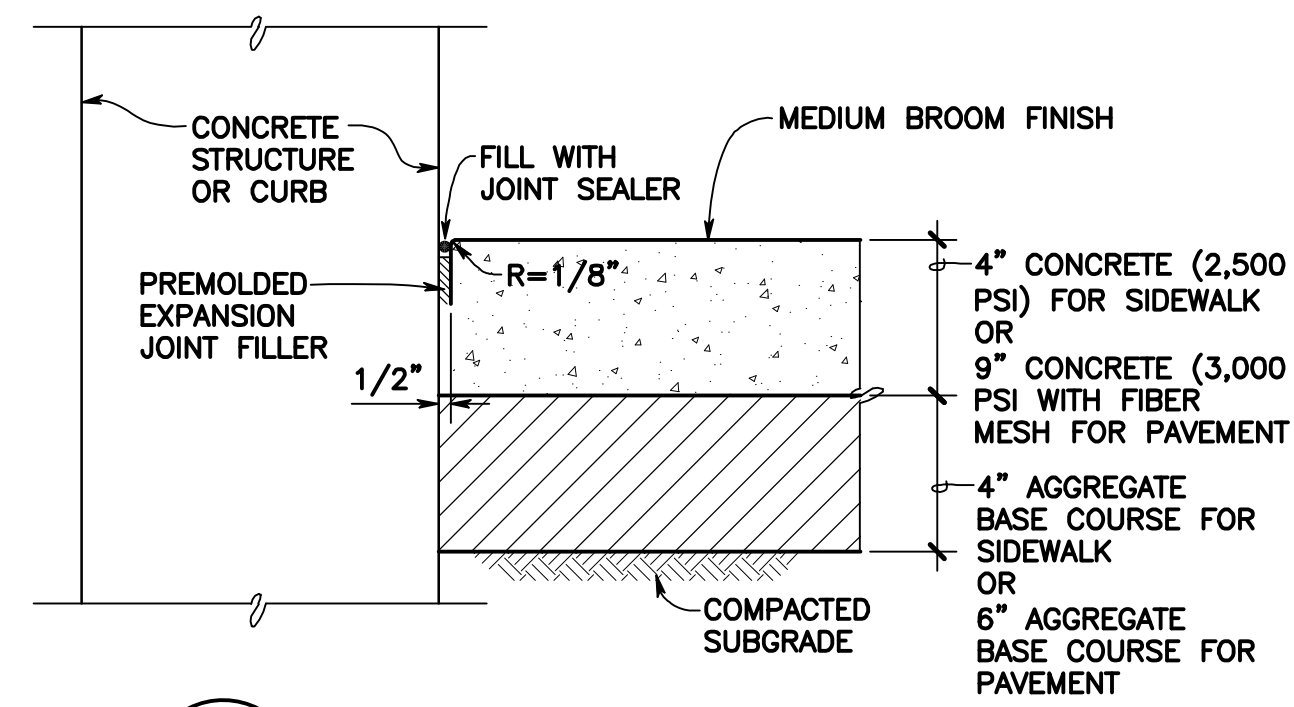


CONCRETE PAVEMENT JOINT DIAGRAM

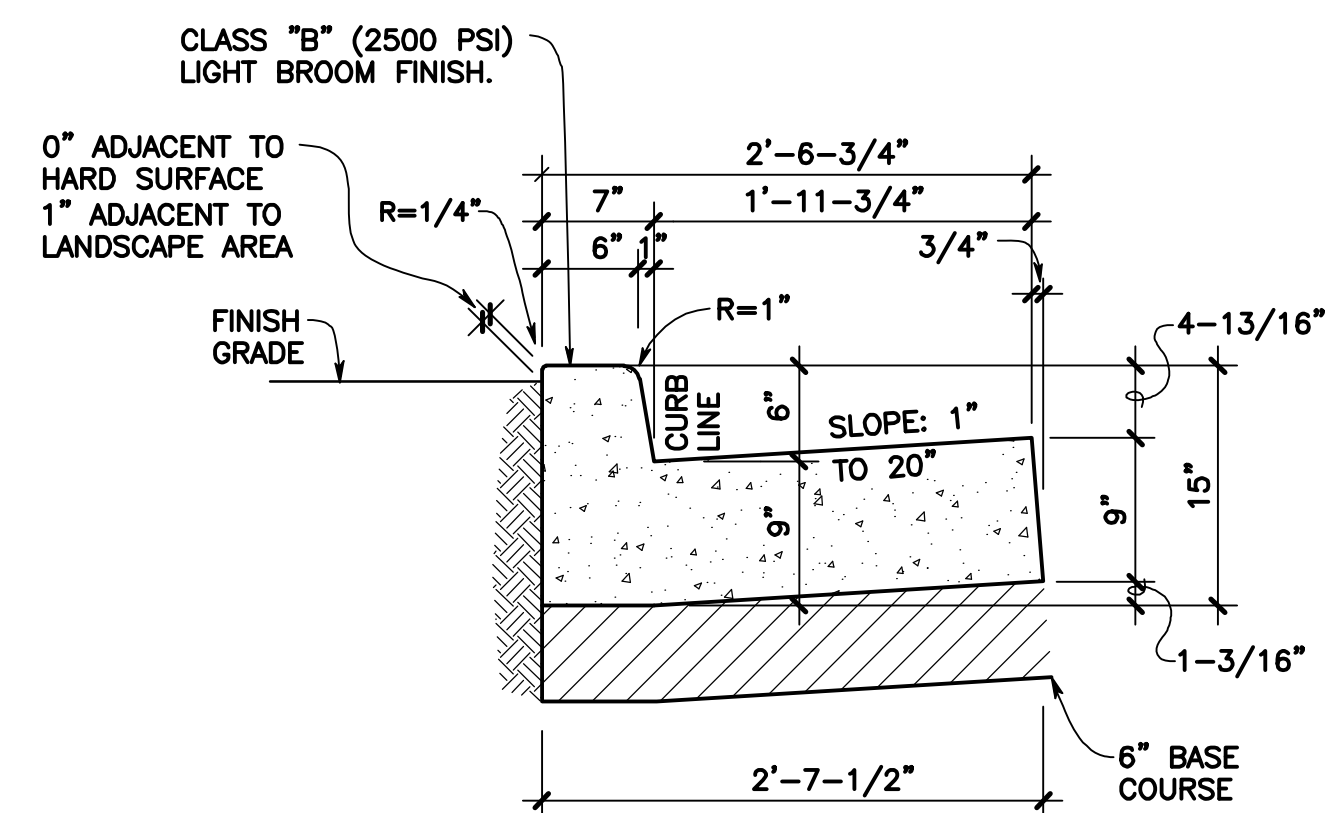
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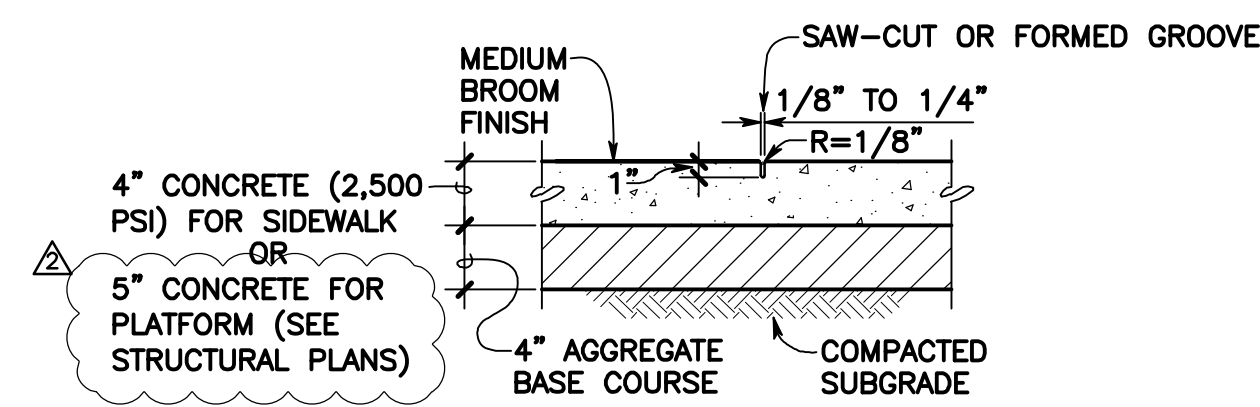
1 REINFORCED CONCRETE CURB
SCALE: 1" = 1'-0"



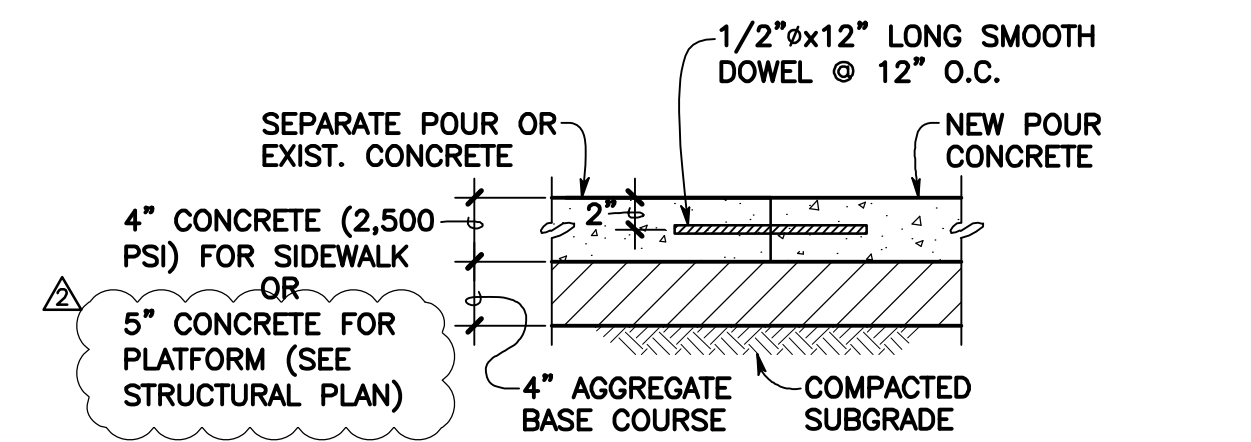
3 EXPANSION JOINT
SCALE: 1" = 1'-0"



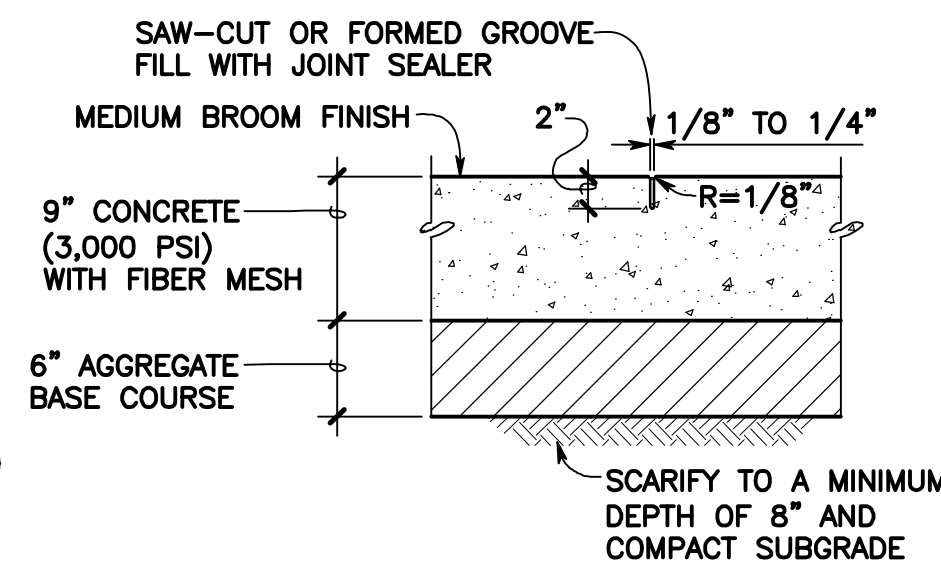
2 CONCRETE CURB & GUTTER
SCALE: 1" = 1'-0"



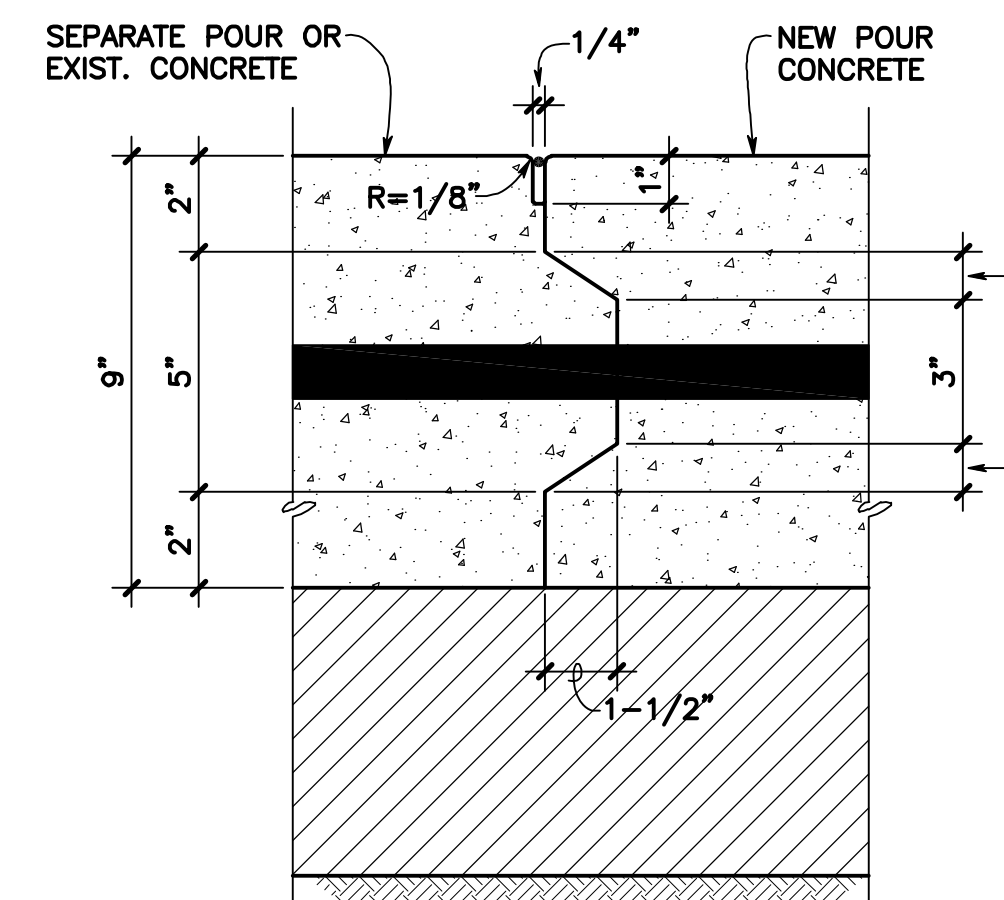
4 CONTRACTION JOINT (FOR SIDEWALK/PLATFORM)
SCALE: 1" = 1'-0"



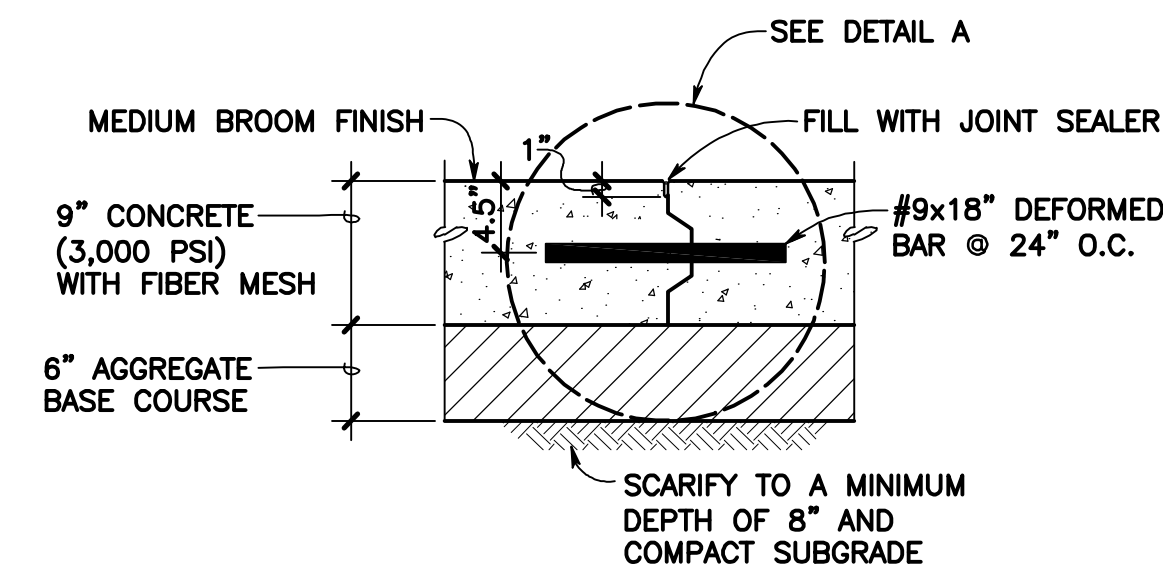
5 CONSTRUCTION JOINT WITH DOWELS (FOR SIDEWALK/PLATFORM)
SCALE: 1" = 1'-0"



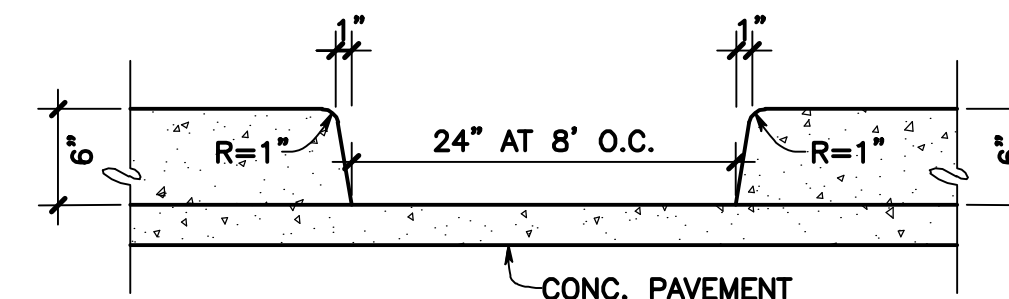
6 TRANSVERSE CONTRACTION JOINT (FOR TRANSIT PAVEMENT)
SCALE: 1" = 1'-0"



DETAIL A
SCALE: 3" = 1'-0"



7 KEYED CONSTRUCTION JOINT WITH TIE BAR (FOR TRANSIT PAVEMENT)
SCALE: 1" = 1'-0"



8 CURB OPENING DETAIL
SCALE: 1" = 1'-0"

NOTES:

1. TRANSIT PAVEMENT
A. MEDIUM BROOM FINISHED
2. PLATFORM PAVEMENT
A. MEDIUM BROOM FINISHED



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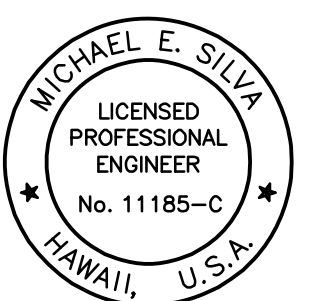
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TRANSIT HUB
QBS NO. Q-TR-18-01
KAHALUJ, MAUI, HAWAII

PAVEMENT DETAILS



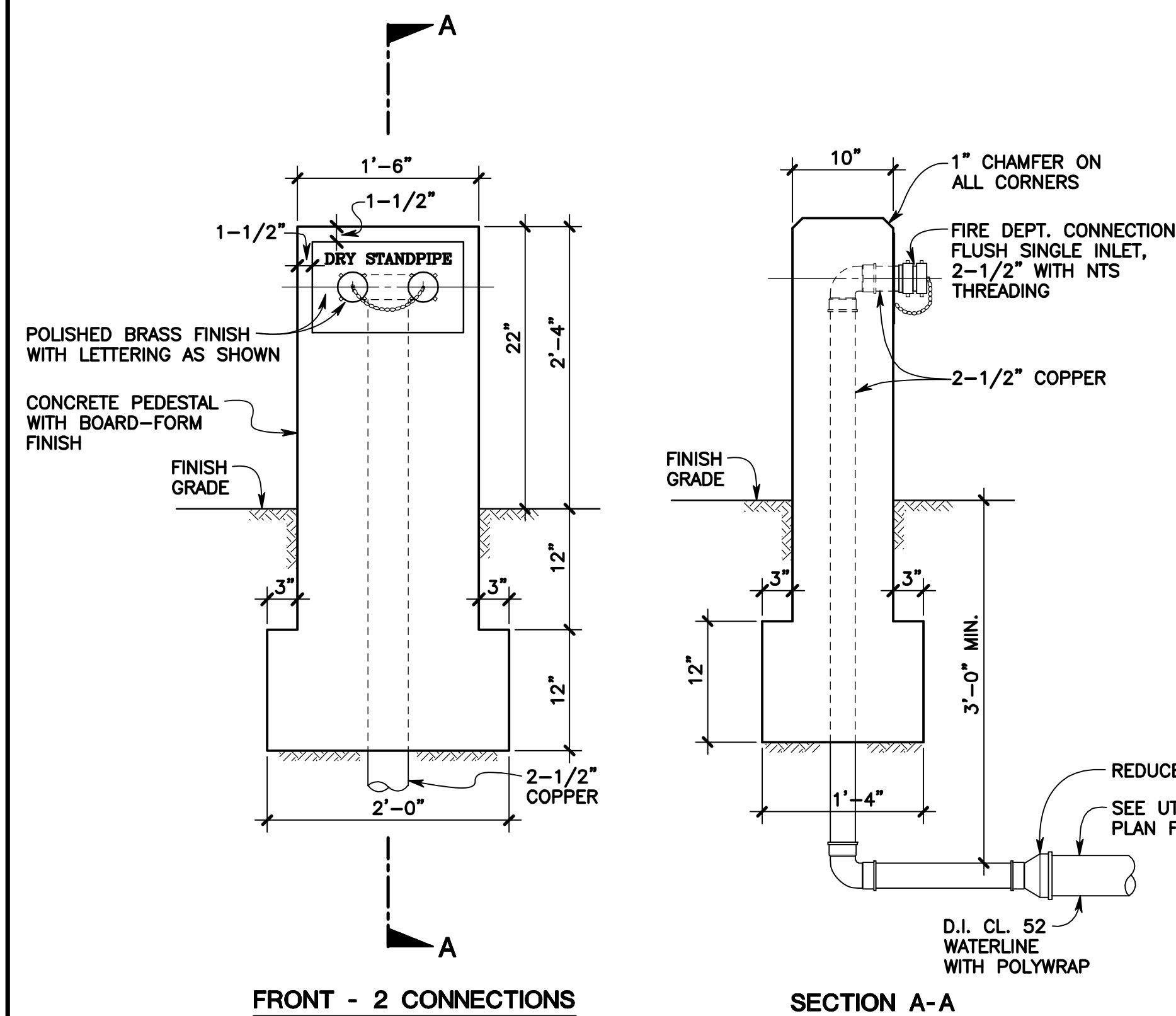
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAR 16-115-2.

LICENSE EXPIRES: 04/30/2020

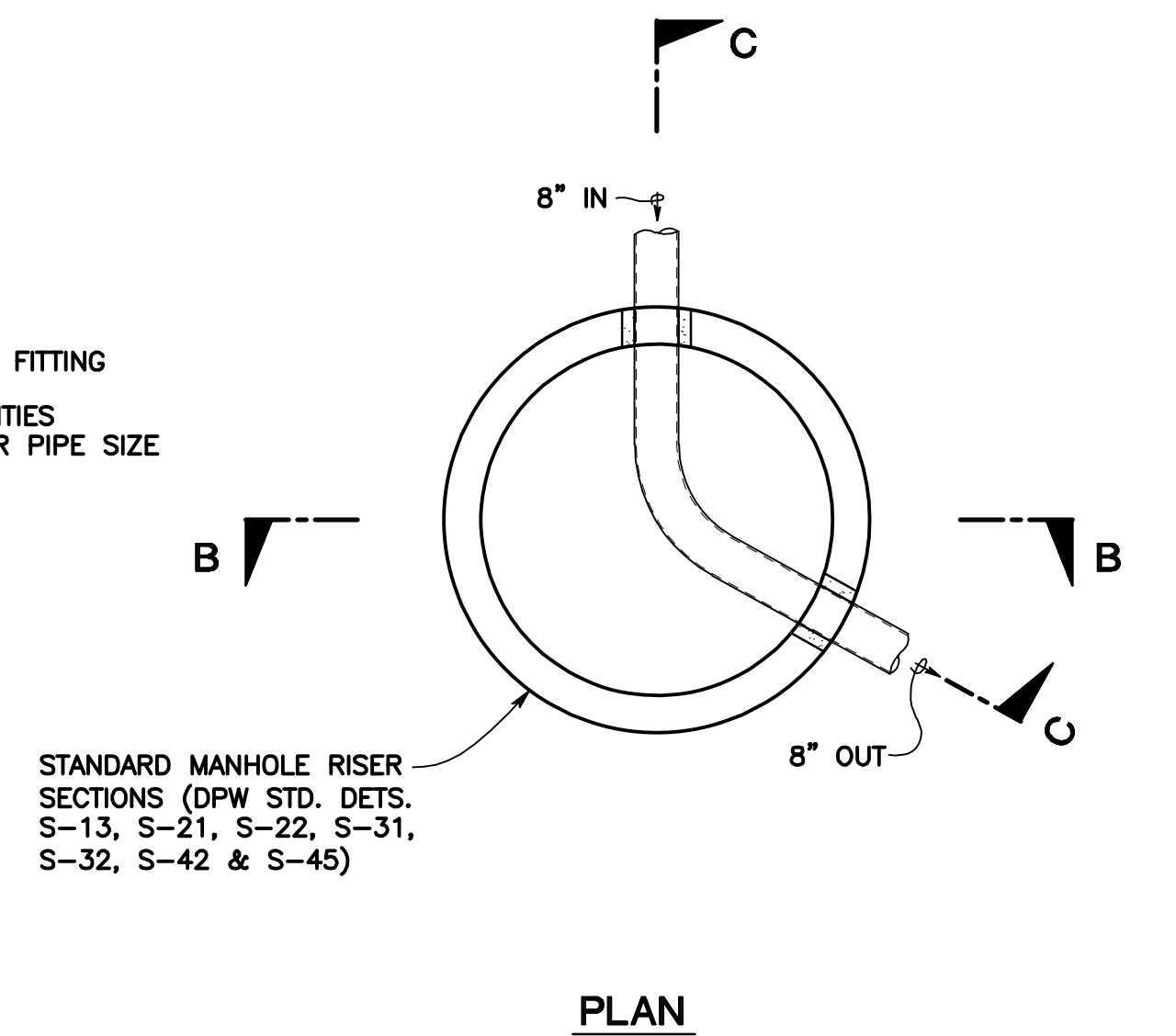
09/22/20 ADDENDUM NO. 1

DESIGNED BY: O.M.
DRAWN BY: O.M.
CHECKED BY: M.S.
DATE: AUGUST 7, 2020
FILE NO: COMB1

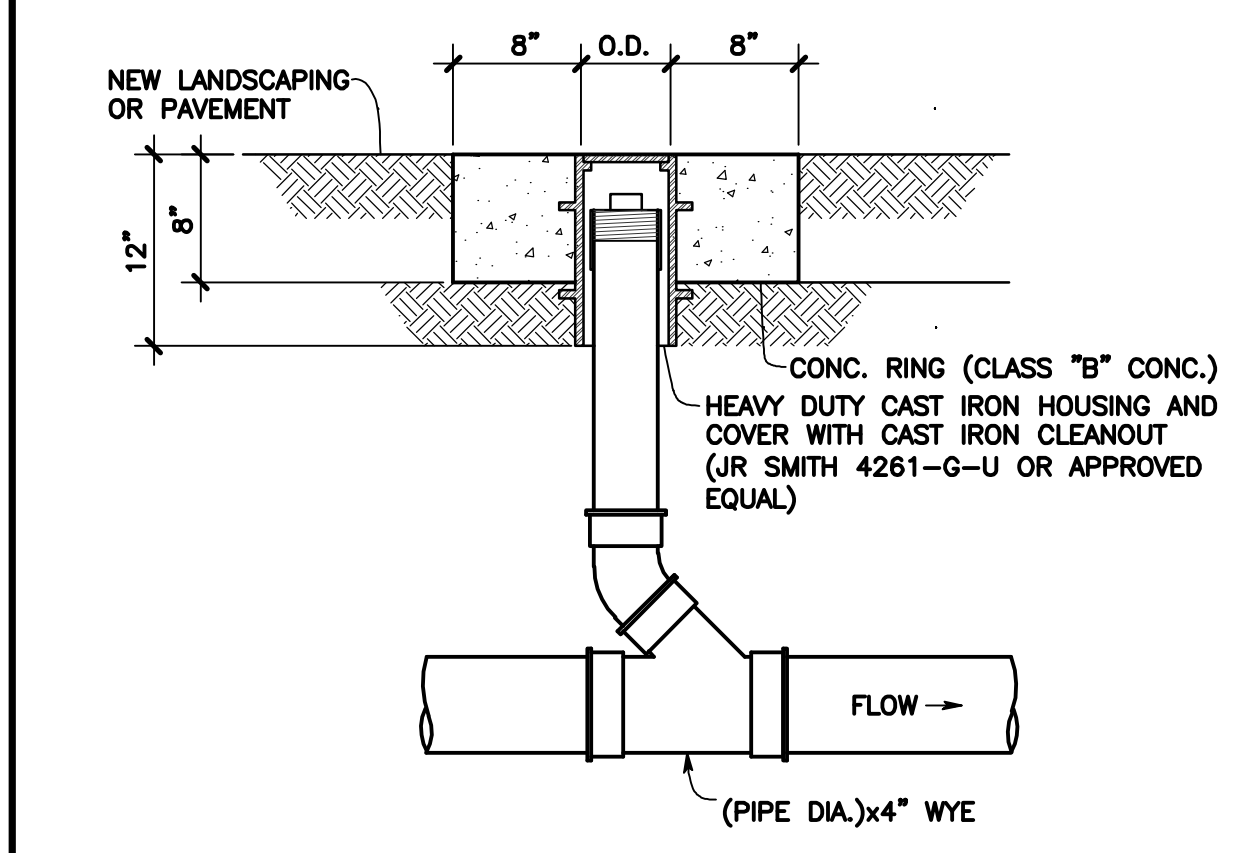
SHEET C-11



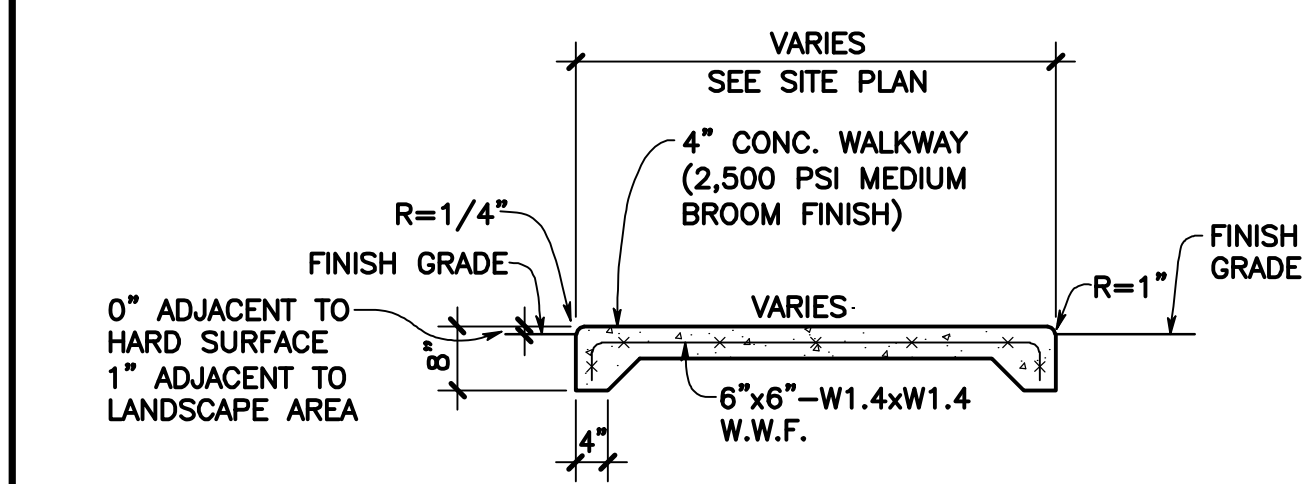
1 FDC PEDESTAL
 SCALE: 1" = 1'-0"



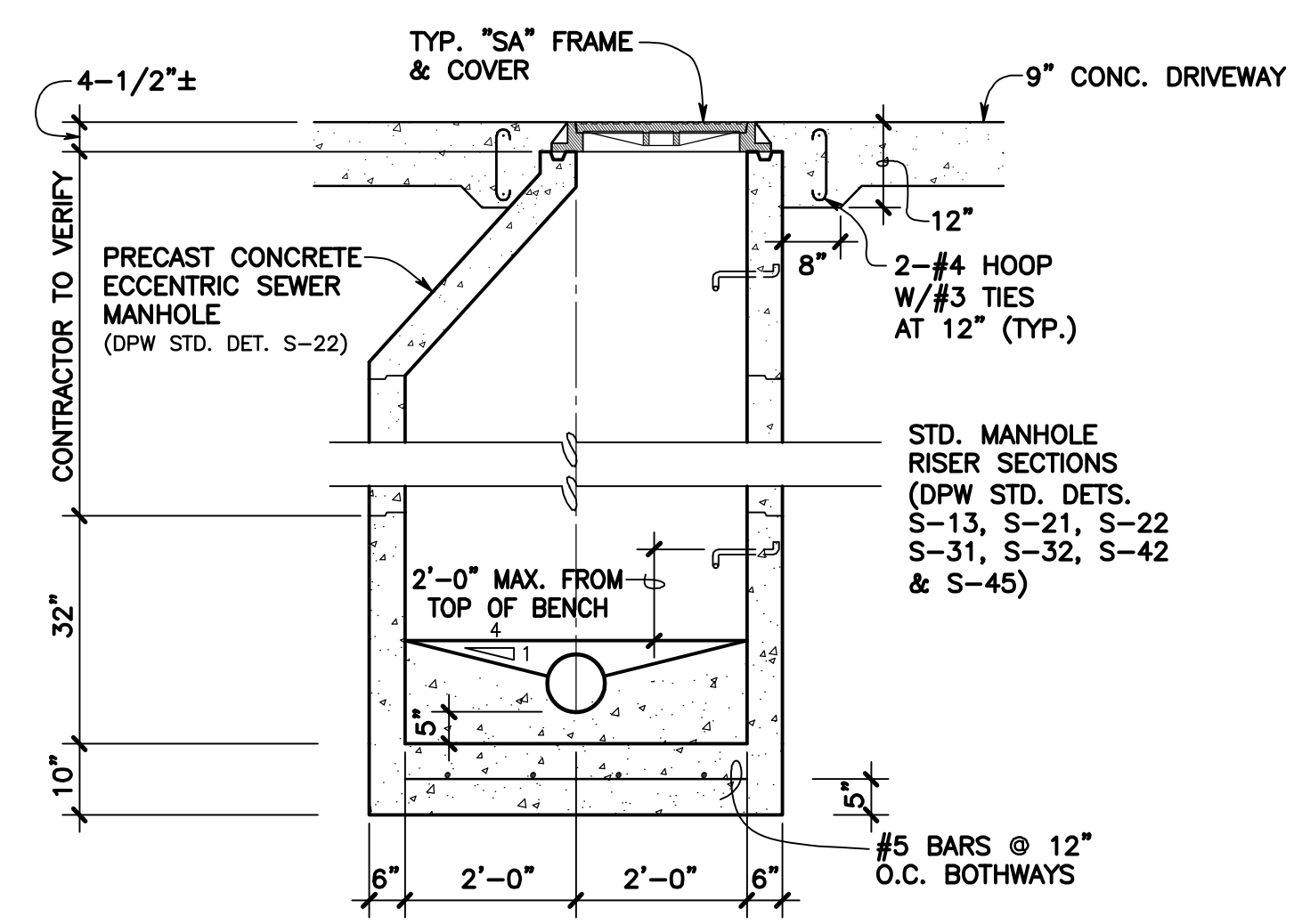
STANDARD MANHOLE RISER SECTIONS (DPW STD. DETS. S-13, S-21, S-22, S-31, S-32, S-42 & S-45)



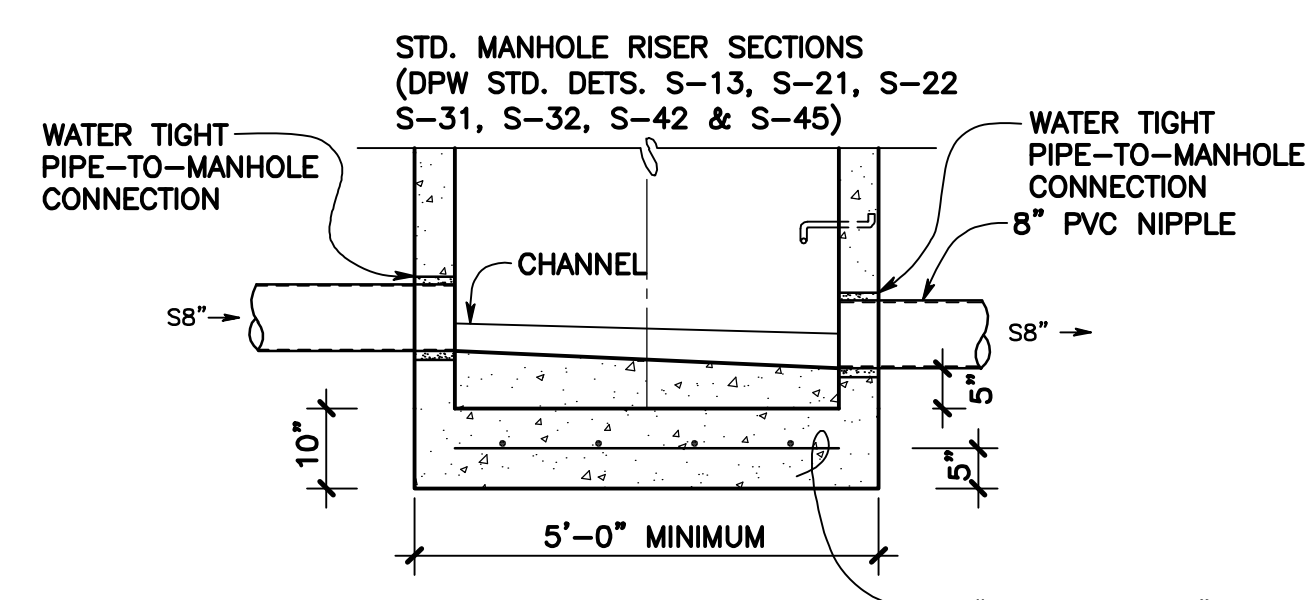
2 4" COTG DETAIL
 SCALE: 1" = 1'-0"



3 CONC. SIDEWALK DETAIL
 SCALE: 1/2" = 1'-0"



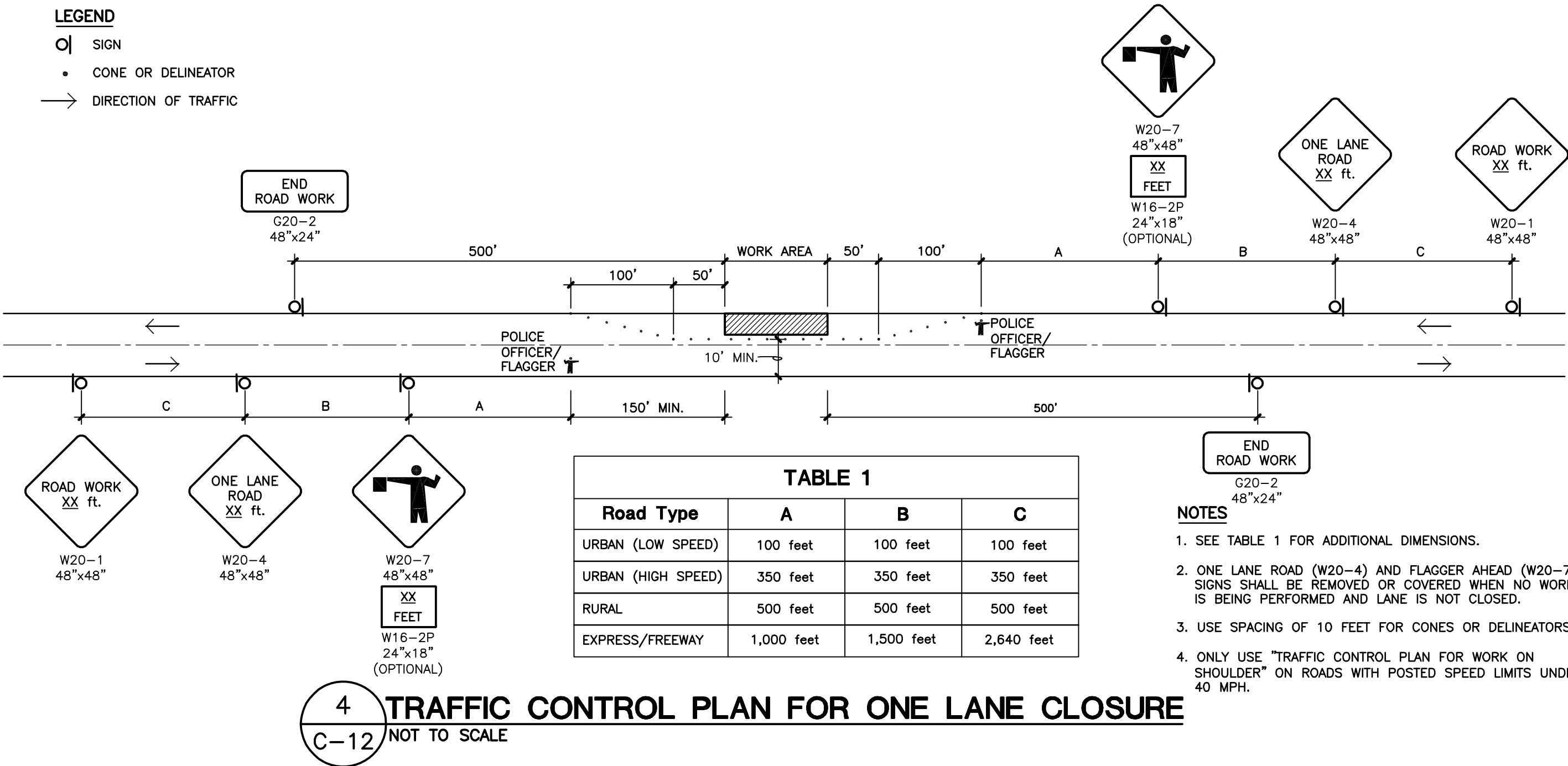
SECTION B-B



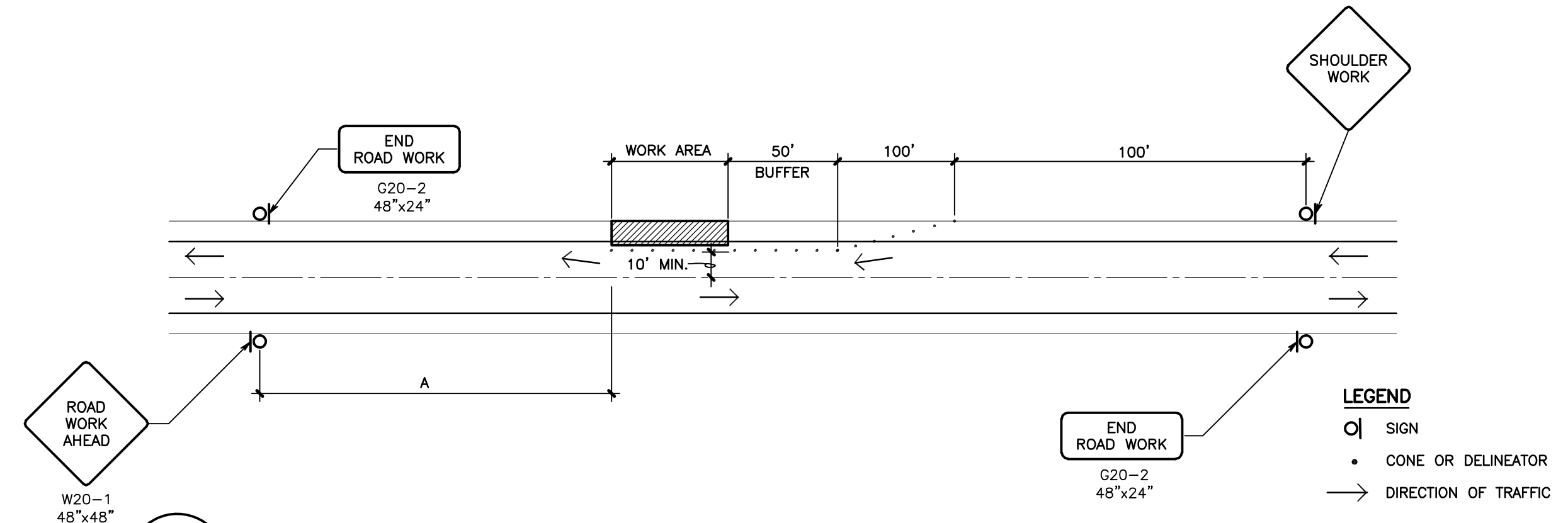
SECTION C-C

4 SEWER SERVICE MANHOLE
 SCALE: 1/2" = 1'-0"

LEGEND
 ○ SIGN
 • CONE OR DELINEATOR
 → DIRECTION OF TRAFFIC



4 TRAFFIC CONTROL PLAN FOR ONE LANE CLOSURE
 C-12 NOT TO SCALE



5 TRAFFIC CONTROL PLAN FOR WORK ON SHOULDER
 C-12 NOT TO SCALE



FUKUMOTO ENGINEERING, INC.
Civil Engineering &
Land Surveying Consultants

1721 Willi Pa Loop, Suite 203
Wailuku, Hawaii 96793

Phone: (808) 242-8611
Email: office@femau.com
Website: www.femau.com

Prepared for:
DEPARTMENT OF TRANSPORTATION
COUNTY OF MAUI
2145 KACHU STREET
WAILUKU, HAWAII 96793

TRANSIT HUB
QBS NO. Q-TR-18-01
KAHULUI, MAUI, HAWAII

MISCELLANEOUS DETAILS

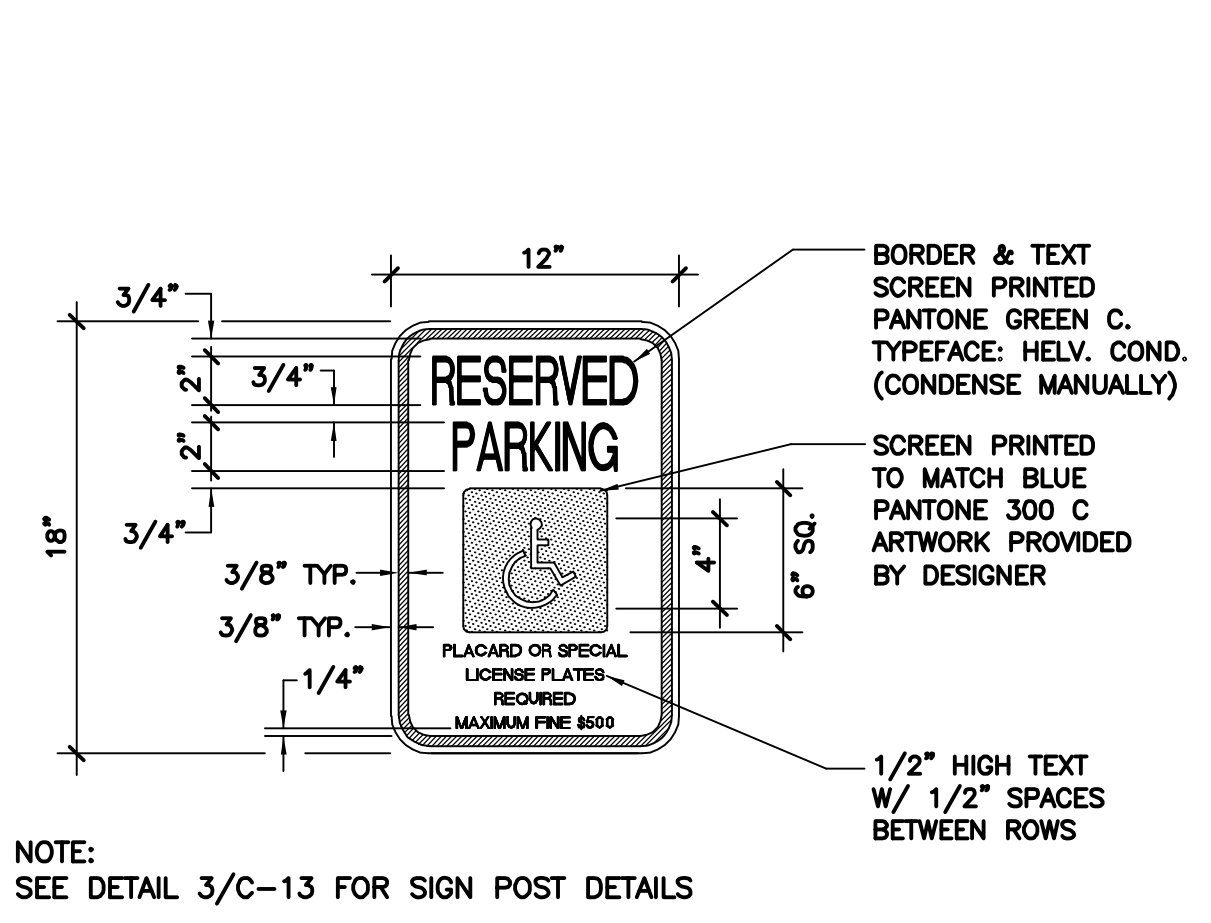


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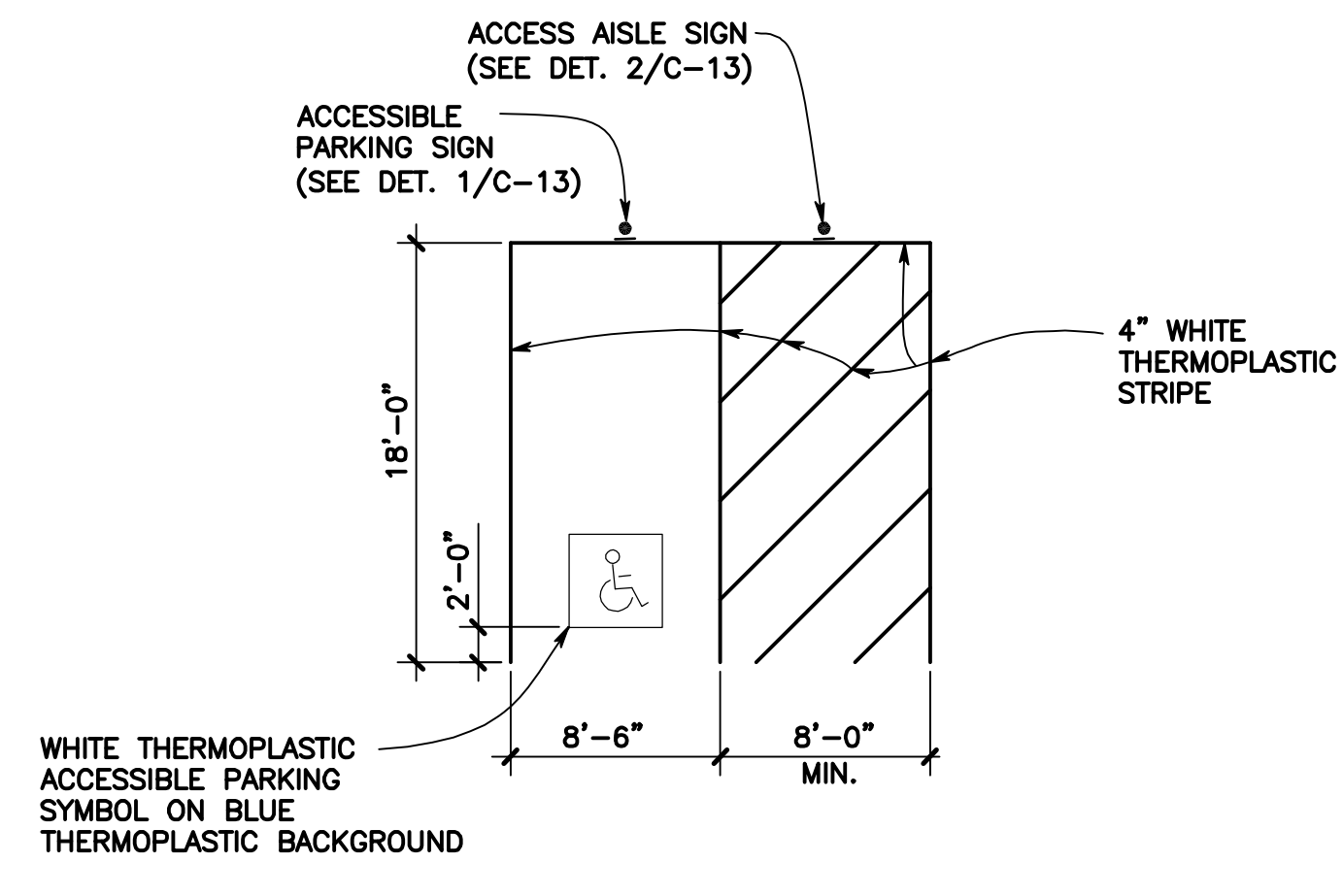
LICENSE EXPIRES: 04/30/2020

DESIGNED BY: O.M.
DRAWN BY: O.M.
CHECKED BY: M.S.
DATE: AUGUST 7, 2020
FILE NO: COMB1

SHEET
C-13
14 OF



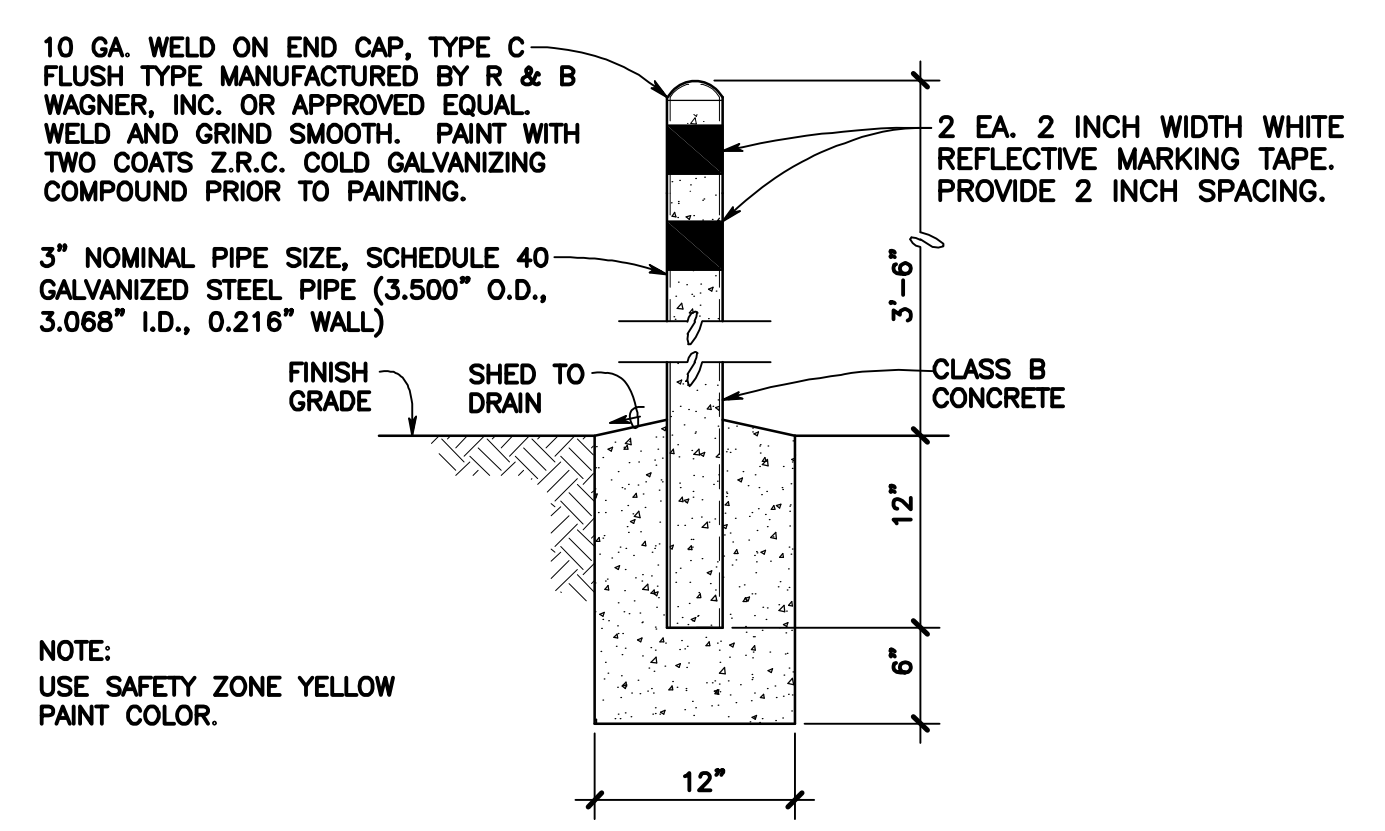
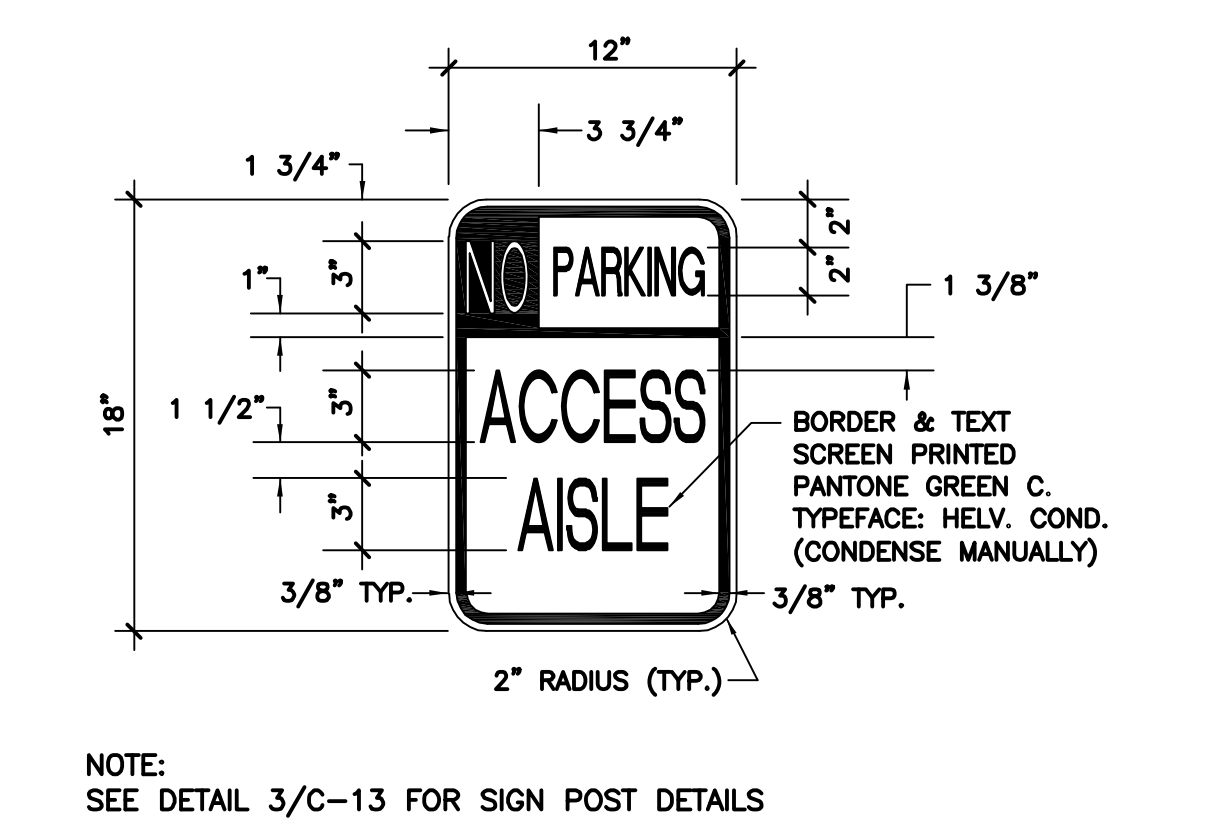
STANDARD ACCESSIBLE



STANDARD ACCESSIBLE STALL WIDTH:
A. 8'-6" PARKING W/ 8'-0" ACCESSIBLE AISLE

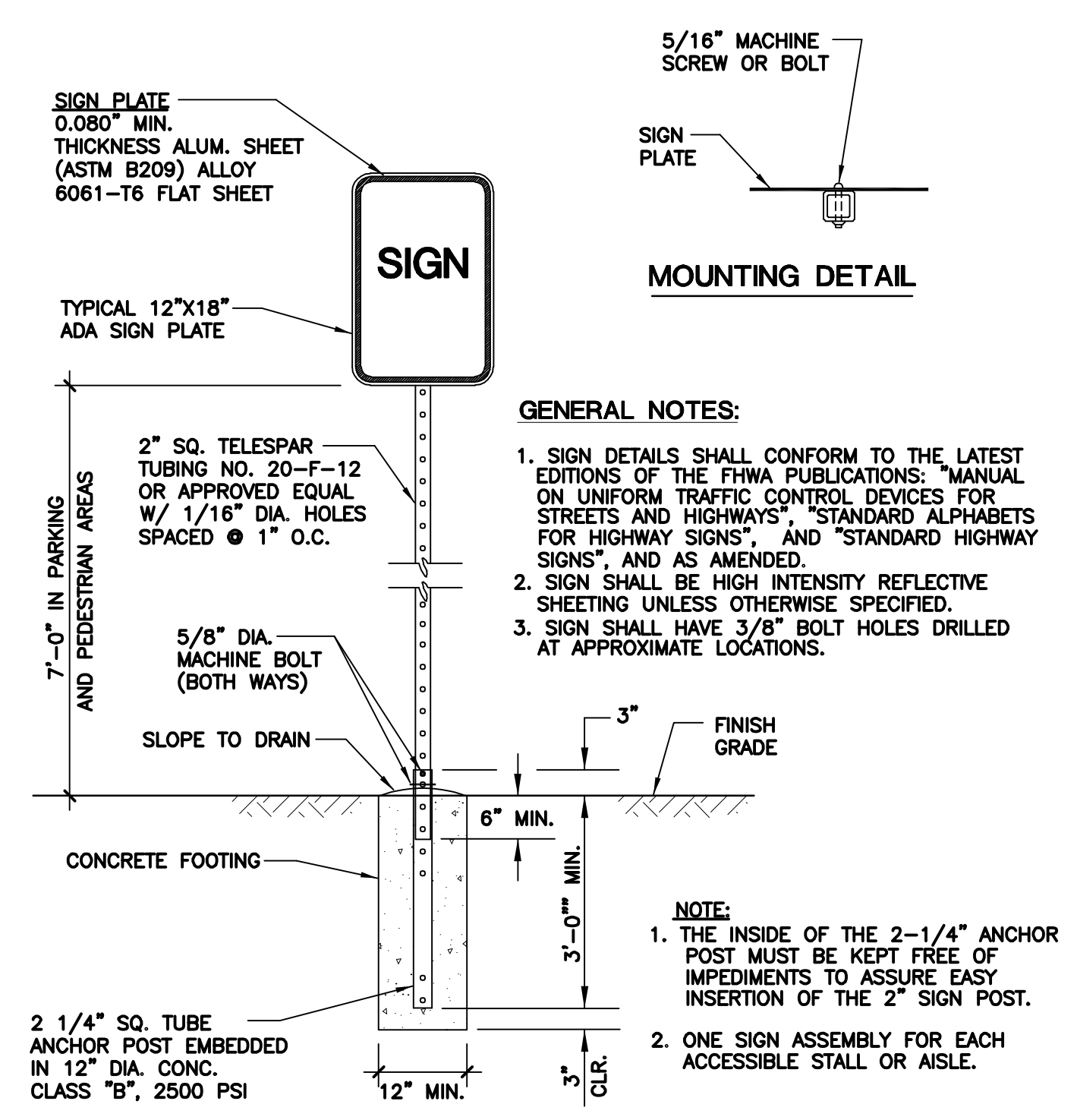
1 TYPICAL RESERVED PARKING SIGN
NOT TO SCALE

4 ACCESSIBLE PARKING DETAIL
NOT TO SCALE



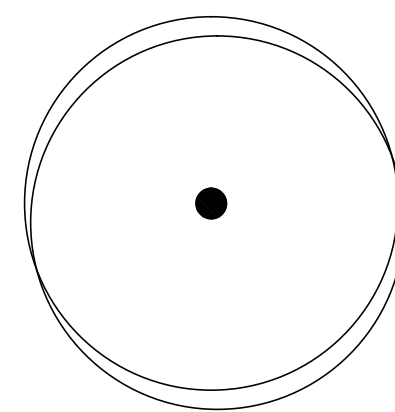
2 TYPICAL ACCESS AISLE SIGN
NOT TO SCALE

5 PIPE BOLLARD
SCALE: 1" = 1'-0"

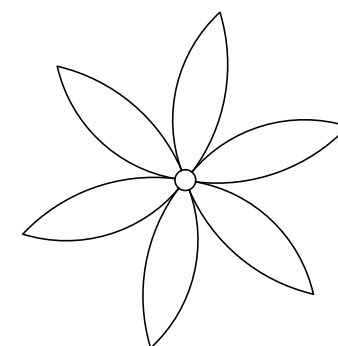


3 ACCESSIBLE SIGN POST DETAIL
NOT TO SCALE

PLANTING LEGEND



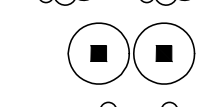
MILO TREE - *Thespesia populnea*
(2" Cal., 25 Gal.)



LOULU PALM TREE - *Pritchardia hillebrandii*
(8' Tnk Ht.)



HAU - *Hibiscus tiliaceus* (15 Gal.)



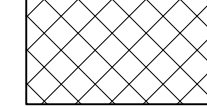
RED TI - *Cordyline fruticosa* (1 Gal.)



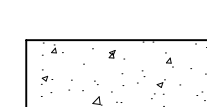
CROTON, MIXED - *Codiaeum variegatum* (1 Gal.)



QUEEN EMMA LILY - *Crinum augustum* (5 Gal.)



POHINAHINA - *Vitex rotundifolia* (4" Pots, 18" O.C.)



Crushed Lava Cinder, 3/4" minus, 2" deep

SHEET LEGEND

- L-1 PLANTING PLAN
- L-2 IRRIGATION PLAN
- L-3 LANDSCAPE DETAILS / NOTES
- L-4 IRRIGATION DETAILS / NOTES

NOTES:

- 1 - ALL TREES TO BE LOCATED IN THE R.O.W. WHERE POSSIBLE.
- 2 - ALL STREET TREE LOCATIONS ARE APPROXIMATE & WILL BE ADJUSTED 'IN-THE-FIELD' BY LANDSCAPE CONTRACTOR TO HAVE A 8'-0" CLEAR ZONE TO ALL UTILITIES INCLUDING WATER MAINS, FIRE HYDRANTS, AND SERVICE LATERALS. (AS PER DEPARTMENT OF WATER SUPPLY REQUIREMENTS)
- 3 - ALL STREET TREES TO HAVE 10'-0" OF ROOT BARRIER INSTALLED AT BACK OF CURB. ADDITIONAL ROOTBARRIER TO BE INSTALLED WHEN "CLEAR ZONE" CANNOT BE ACCOMMODATED.
- 4 - ALL LANDSCAPE MATERIAL TO BE WATERED USING AN AUTOMATIC IRRIGATION SYSTEM.
- 5 - SEE CIVIL PLANS FOR ALL GRADING AND RETAINING WALLS.
- 6 - 18" MAINTENANCE STRIP WITH CINDER AROUND ALL BUILDINGS.



KAHULUI TRANSIT HUB
 Kahului, Maui HI 96732
 TMK: (2) 3-7-004 : 003



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PERMIT SET
PLANTING PLAN

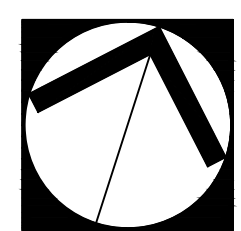
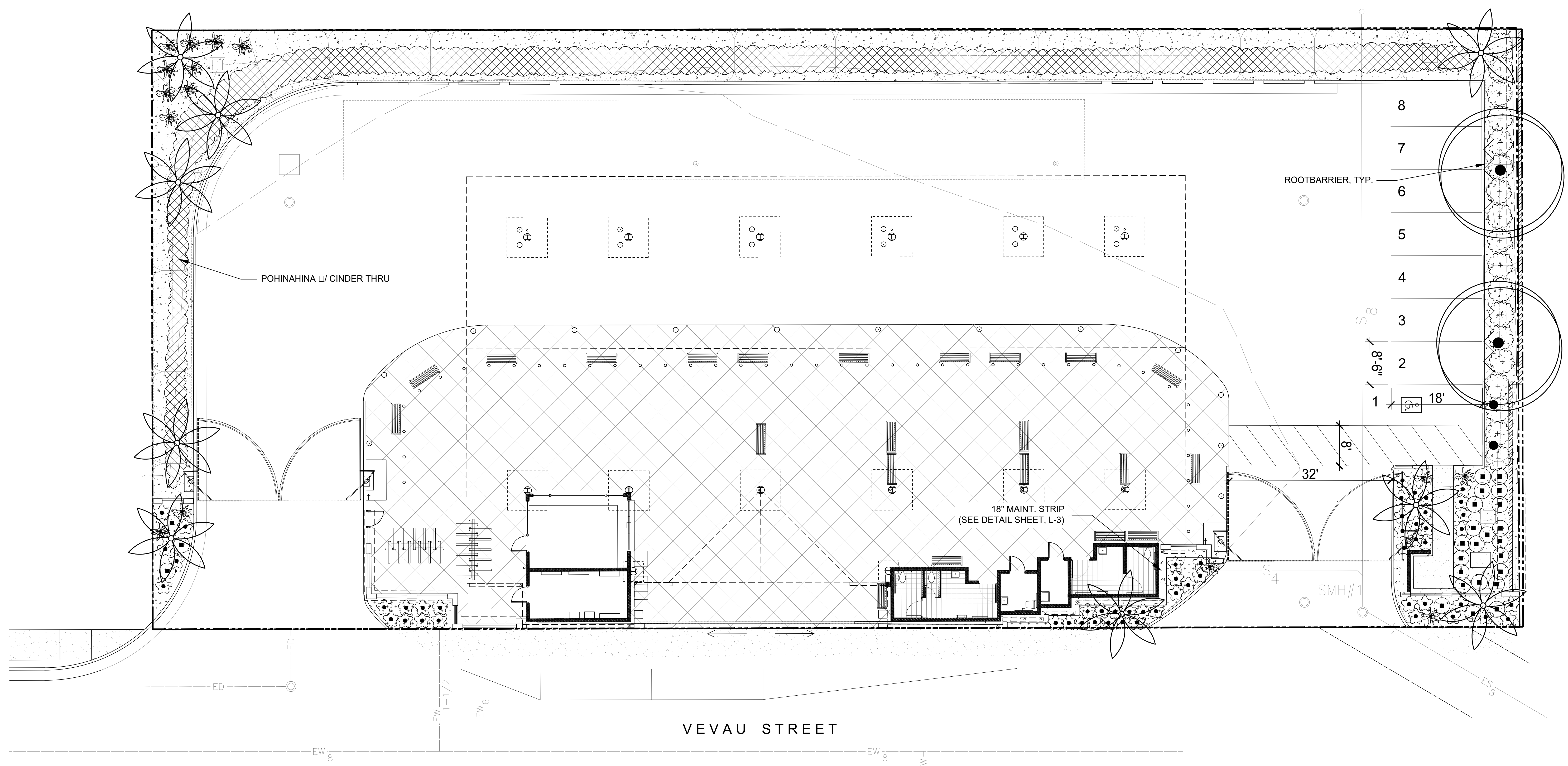
Scale: 1"= 20'-0"

1	AUGUST 10, 2020
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Designed by **WM**
 Drawn by
 Checked by **WM**
 Date **FEB 28, 2020**
 File No. **18-014**

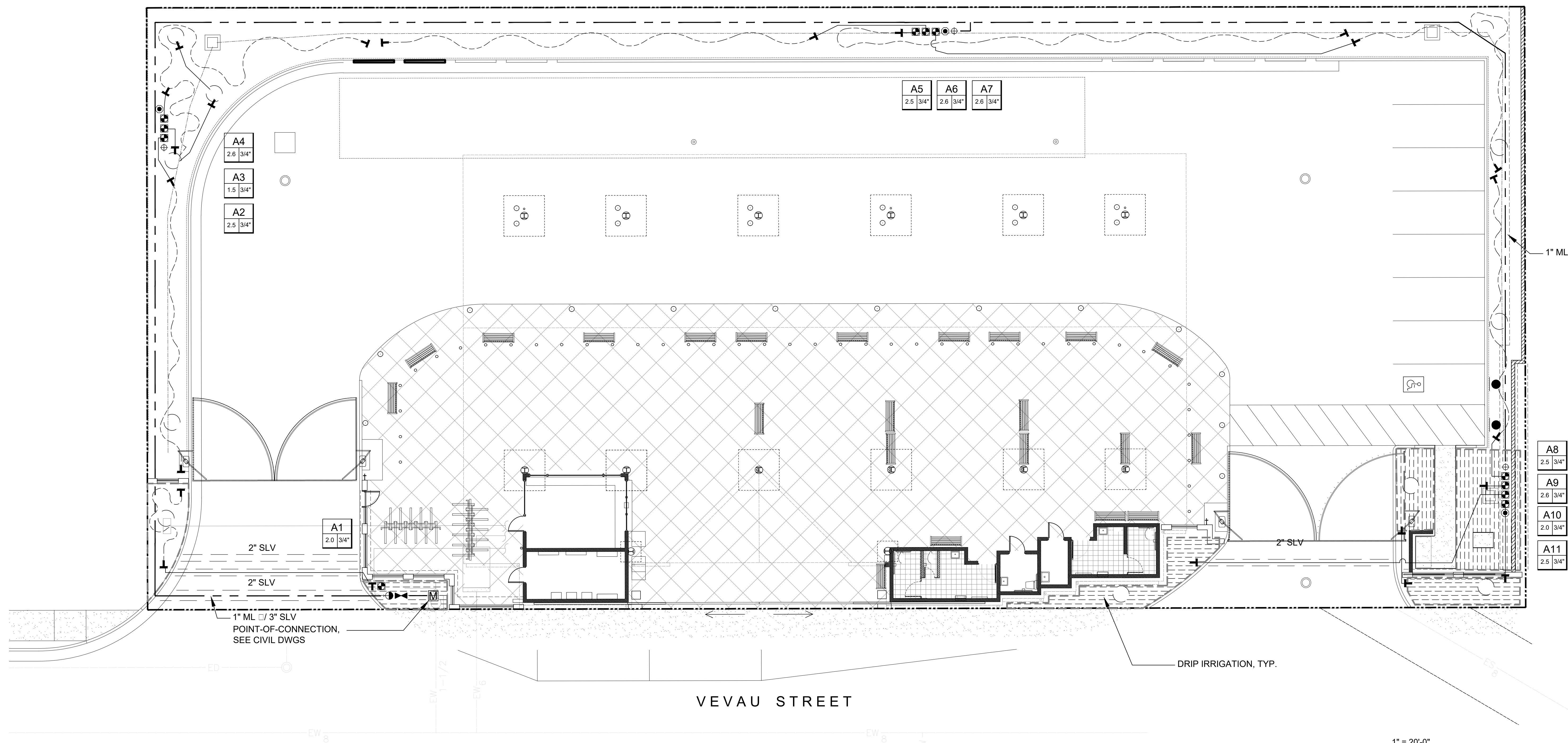
SHEET
L-1
1 of 4 sheets

PERMIT SET



IRRIGATION LEGEND:

EQUIPMENT - HEADS			
SYMBOL	HEAD	PSI	DETL
	HUNTER CONTROL DRIP KIT	ICZ-101	
	HUNTER DRIP SYSTEM ZONE	EMITTER @ 12" X 12" GRID SPACING SIZE PER PLAN WITH (PLD-AVR) AIR / VACCUUM RELIEF VALVE	
	HUNTER PLD-06 DRIP LINE		
	TREE RING DRIP SYSTEM	30 RAINBIRD XFD SERIES 1/4" DRIFLINE	
	HUNTER DRIP END CAP	DRIP ASSEMBLY - 0.6 GPH @ 18" O.C.	
	HUNTER ICV SERIES, 1"	ICV SERIES SIZE PER PLAN	
	NIBCO BRASS GATE VALVE	TI-7 1/4" TO 4" SIZE PER PLAN	
	NIBCO BALL VALVE	4660-S 1/4" TO 4" SIZE PER PLAN	
	RAINBIRD QUICK COUPLER	3/4" 33RC	
	LATERAL SCH. 40 PVC	SIZE PER PLAN	
	SLEEVE SCH. 40 PVC	SIZE PER PLAN	
	MAINLINE SCH. 40 PVC	SIZE PER PLAN	
	FEBCO 825Y BACKFLOW	1" ON (P.O.C.) REFER TO CIVIL PLAN.	
	HUNTER I-CORE CONTROLLER	OUTDOOR PLASTIC ENCLOSURE W/ BUILT IN SOLAR SYNC	
	WATER METER	FIELD VERIFY FOR LOCATION. SEE CIVIL PLAN.	
	STATION VALVE SIZE GPM		



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Signature: [Signature] Expires: 04-30-22

PERMIT SET
IRRIGATION PLAN

Scale: 1" = 20'-0"

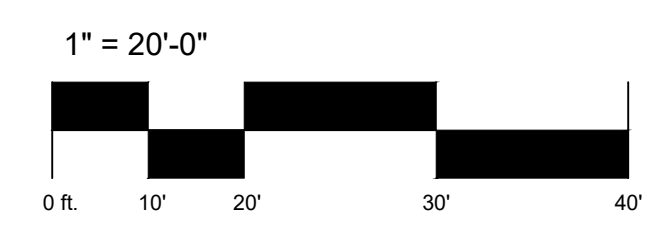
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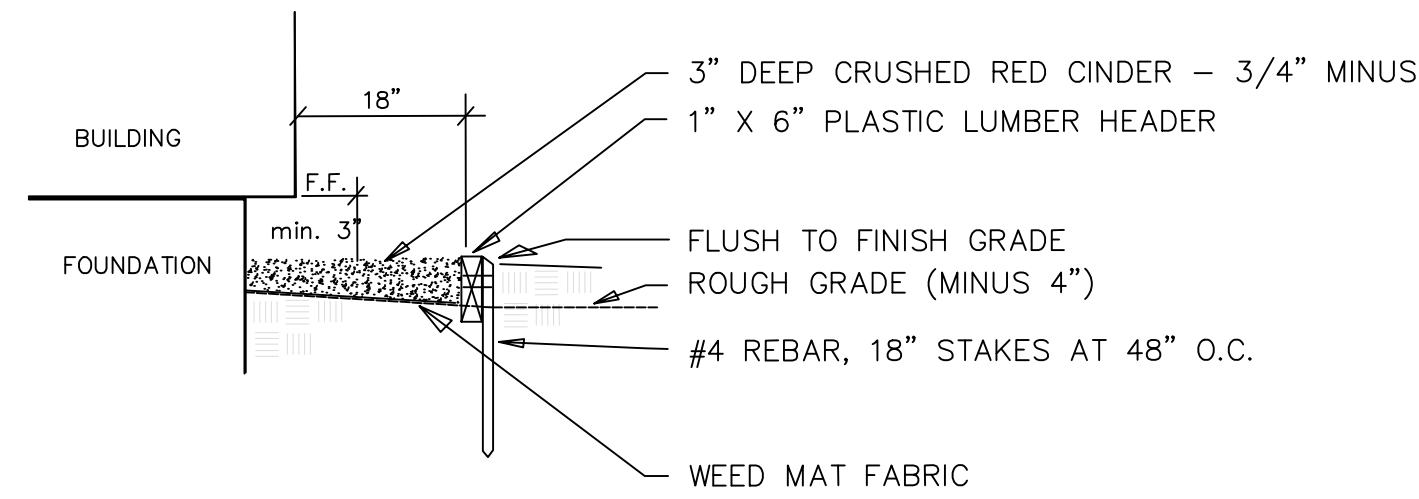
Designed by: WM
 Drawn by: -
 Checked by: WM
 Date: FEB 28, 2020
 File No.: 18-014

SHEET
L-2

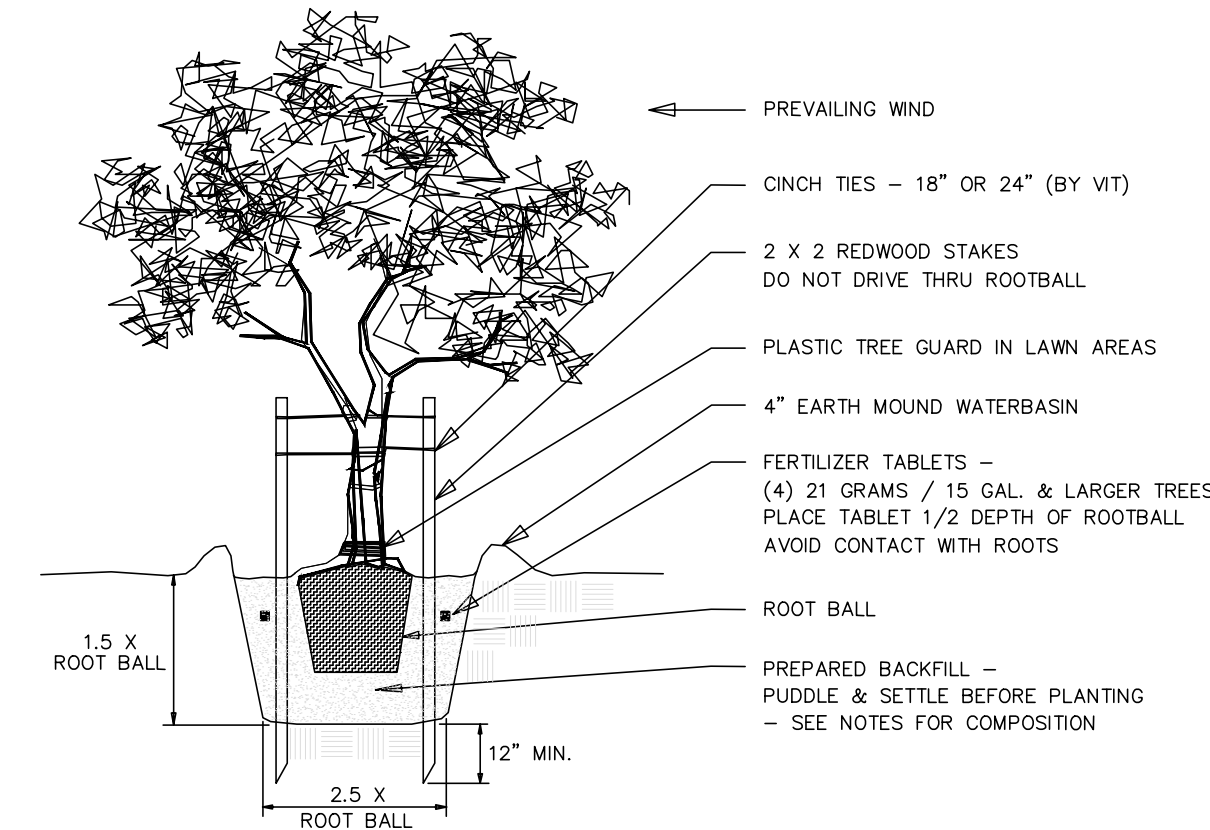
2 of 4 sheets

PERMIT SET

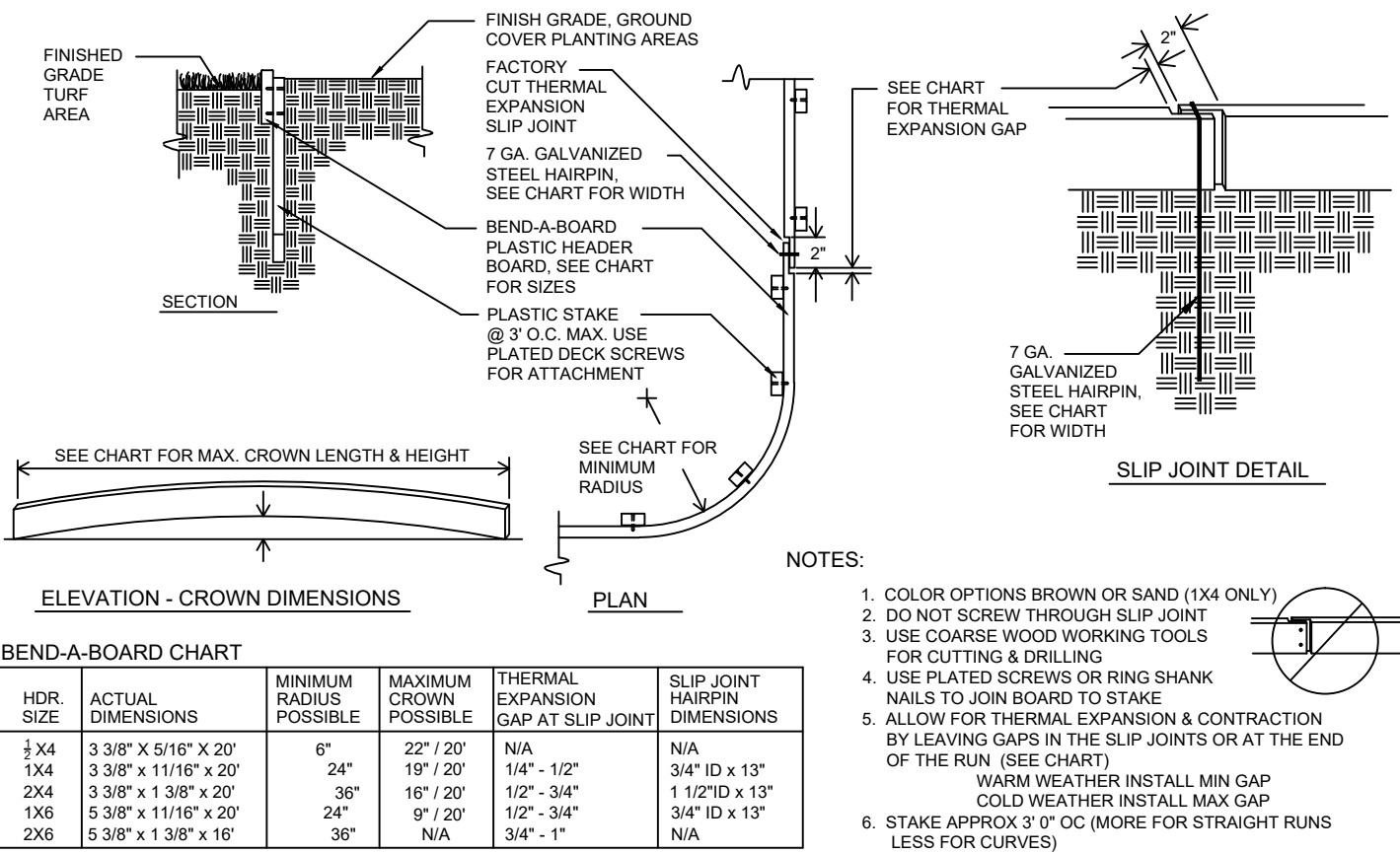




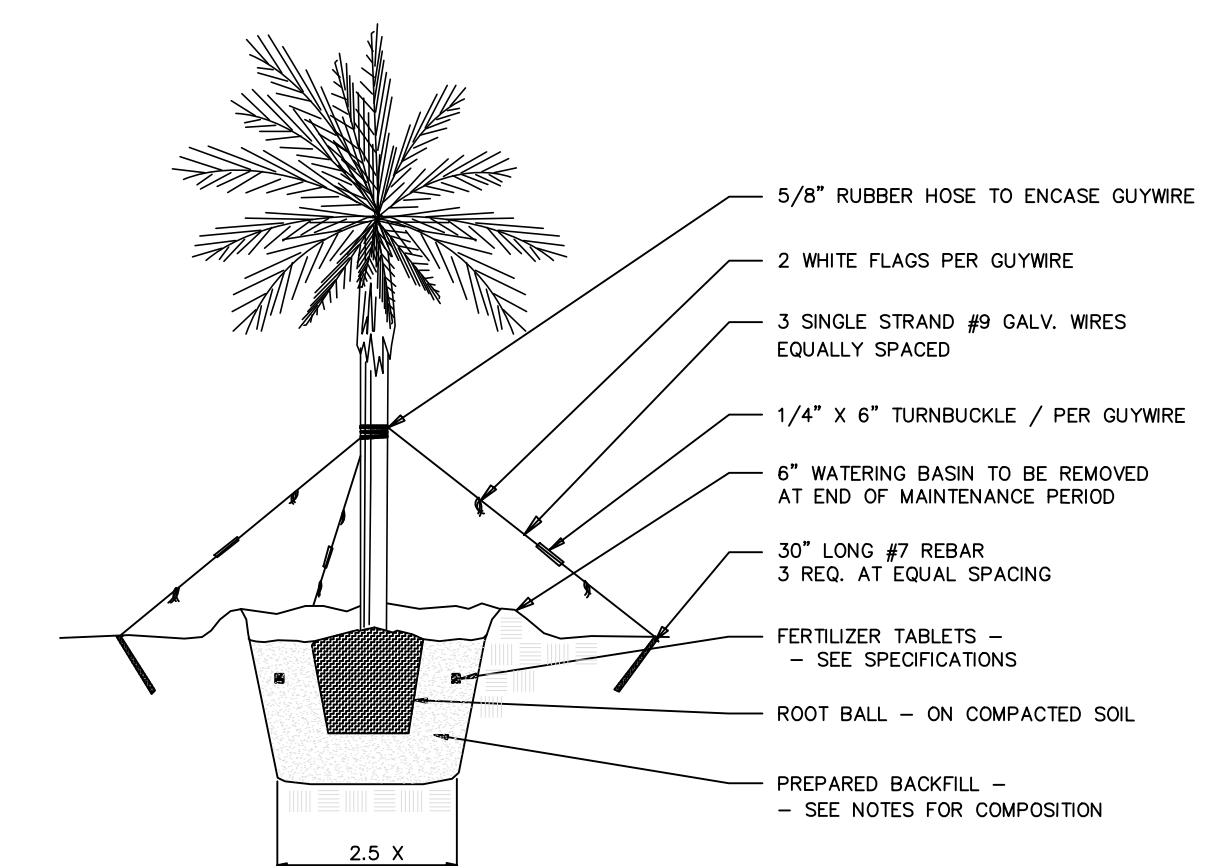
E MAINTENANCE STRIP DETAIL
SECTION SCALE: N.T.S.



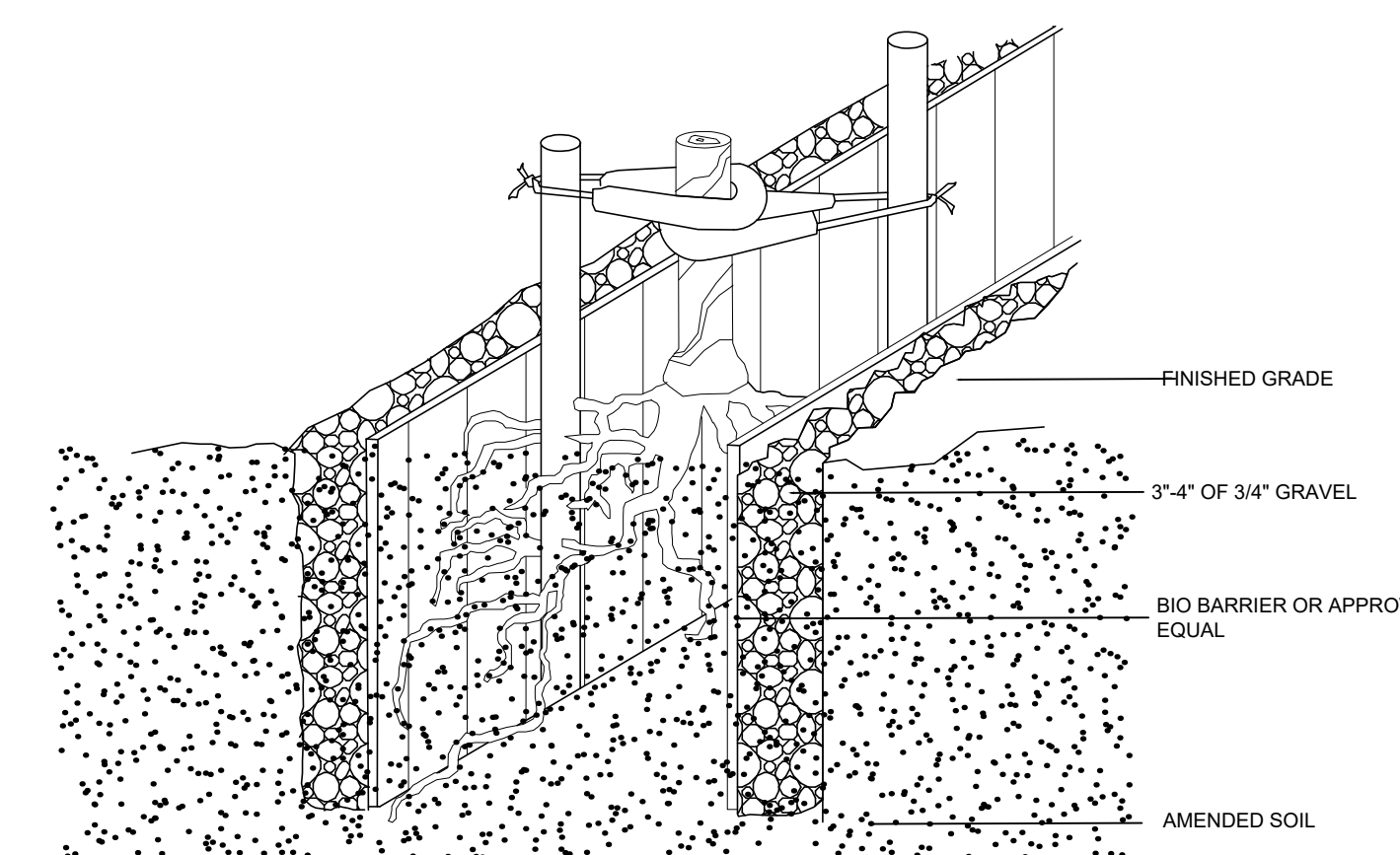
A TREE PLANTING DETAIL
SECTION SCALE: N.T.S.



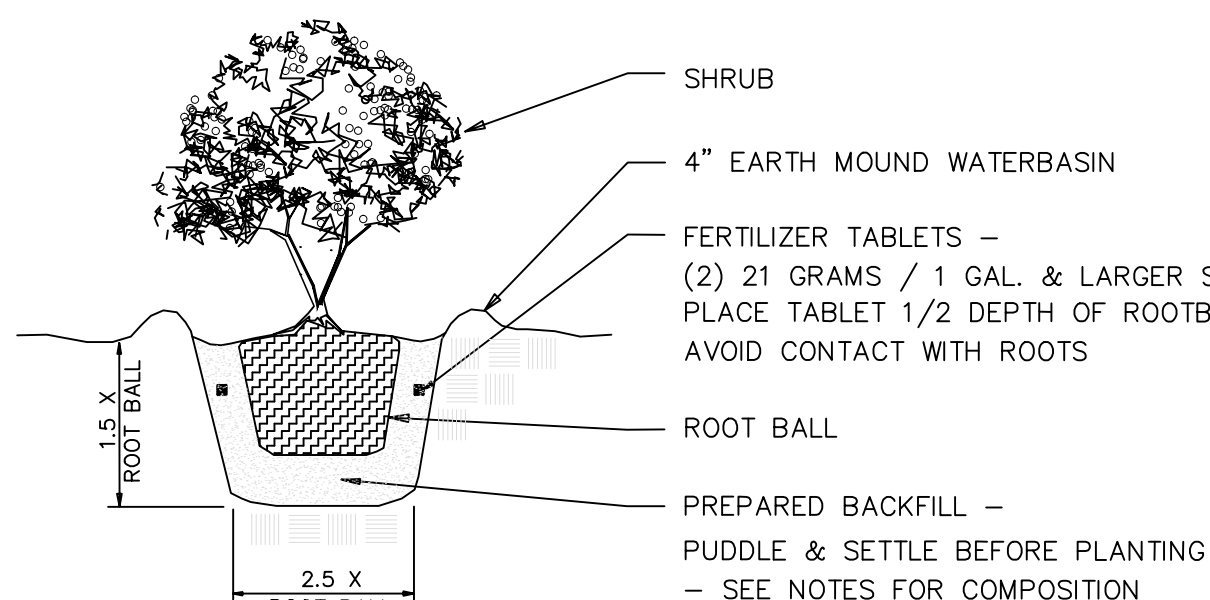
F BEND-A-BOARD PLASTIC HEADER DETAIL
SECTION SCALE: N.T.S.



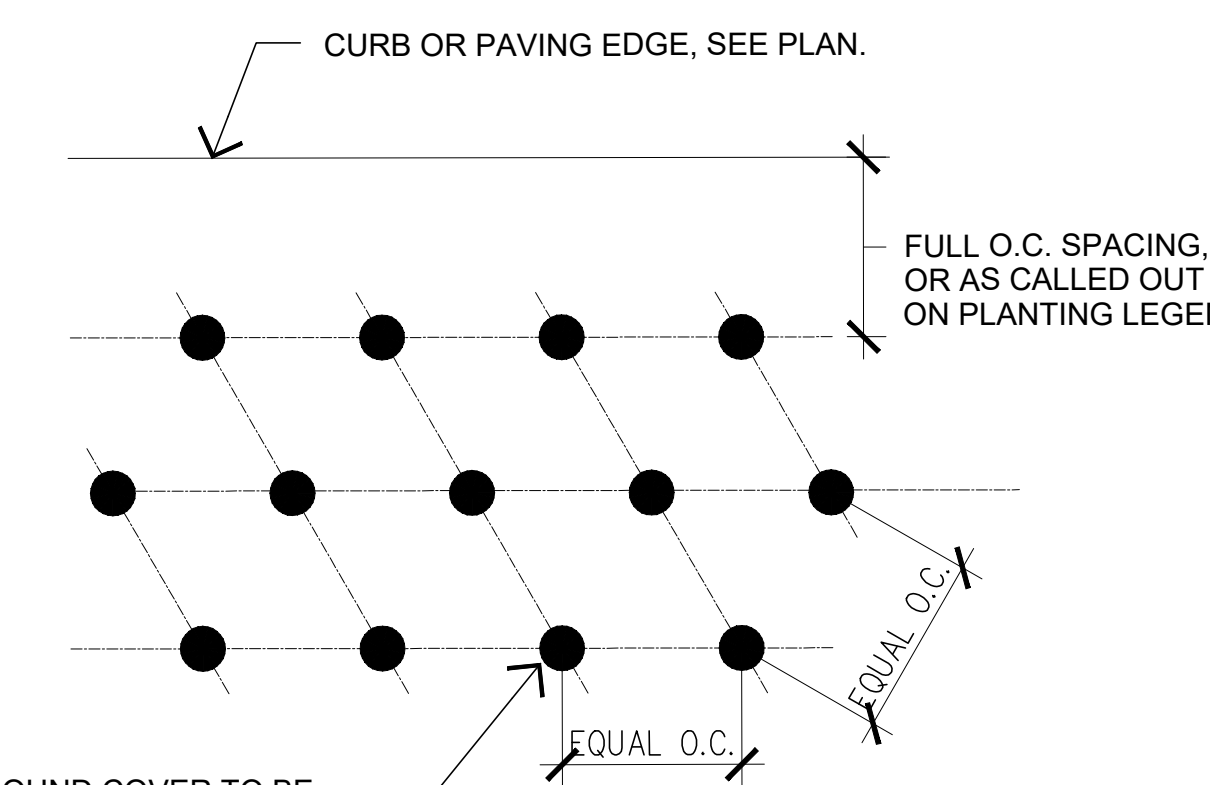
B PALM PLANTING DETAIL
SECTION SCALE: N.T.S.



G ROOT BARRIER
SECTION SCALE: N.T.S.



C SHRUB PLANTING DETAIL
SECTION SCALE: N.T.S.



D GROUND COVER SPACING
SECTION SCALE: N.T.S.

GENERAL NOTES

GRADING

- Landscape Contractor shall maintain a minimum 1% drainage away from all buildings and finish grades shall be smoothed to eliminate ponding or standing water. Fine grade all planting areas prior to commencement of planting operation. The Landscape Contractor shall coordinate with all trades and maintain drainage during construction.
- Rough grade (i.e. finish grade less 4") to be provided by others in landscape areas.
- Place Jute Mesh over slope areas 2:1 or greater.

SOIL PREPARATION

- Evenly spread 4" layer (after settlement) of imported Amended Cinder Topsoil Mix topsoil over all planting areas, unless otherwise specified.
- Pre-mix AMENDED CINDER TOPSOIL MIX as follows:
1/3 screened Topsoil: 1/3 Cinder (3/8" minus): 1/3 Organic Compost
- Uniformly distribute 10-30-10 fertilizer at a rate of 10 lbs. per 1000 sq. ft.

PLANTING:

- Plant quantities shown in the legend are for the Contractor's reference only. The Contractor shall verify all quantities before bidding. The Contractor is responsible for providing sufficient material to cover all areas shown on the plans.
- Plant materials shall be in quantities and sizes specified and be spotted approximately as shown on the plans after the site is graded. The Landscape Architect shall approve these locations before plants are removed from containers and any excavation for plant pits begin.
- Plant material is subject to change by Landscape Architect or Owner based on availability, functional and aesthetic considerations.
- Contractor shall obtain Landscape Architect's approval prior to any substitutions for material specified on the plans.
- Contractor shall layout lawn areas for Landscape Architect's approval prior to any installation of planting or irrigation.
- Shrubs and trees shall have ground cover planted under them as shown by adjacent symbol. Areas not receiving ground cover shall have mulch evenly under shrubs as called for in the materials legend.
- Ground cover shall be planted using triangular spacing.
- Vines and espaliers shall be secured to adjacent fences, posts or walls using vine ties. Remove nursery stakes or trellis.
- Contractor shall guarantee plant longevity as follows: Trees one year; Shrubs and Ground covers for three months. This period to begin at the end of the maintenance period and after final acceptance.
- All planted and irrigated areas shall be subject to a ninety (90) day maintenance period. Formal maintenance period shall begin when installation is approved by Landscape Architect.
- Root barriers as shown on plans shall be installed as per the manufacturer's specifications.
- Contractor shall be aware of all new utility locations prior to excavation. See Civil, Mechanical and Electrical drawings.
- Large specimen trees and palms shall be guyed as required for healthy plant establishment.
- Refer to Landscape Specifications for additional information regarding material and installation requirements.



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Signature: [Signature] Expires: 04-30-22

PERMIT SET
LANDSCAPE DETAILS & NOTES

Scale: As Noted

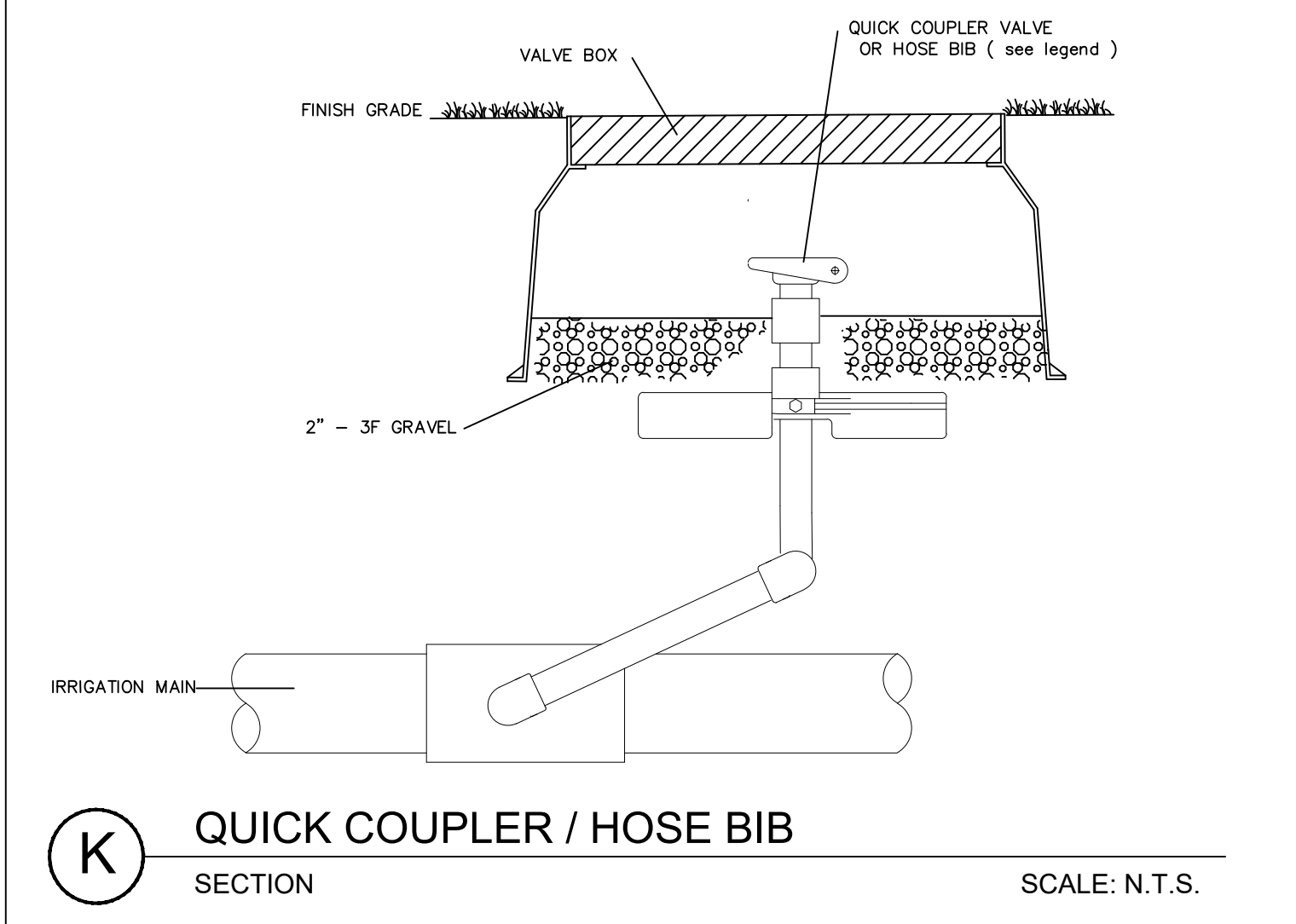
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Designed by: WM
Drawn by: -
Checked by: WM
Date: FEB 2020
File No: 18-014

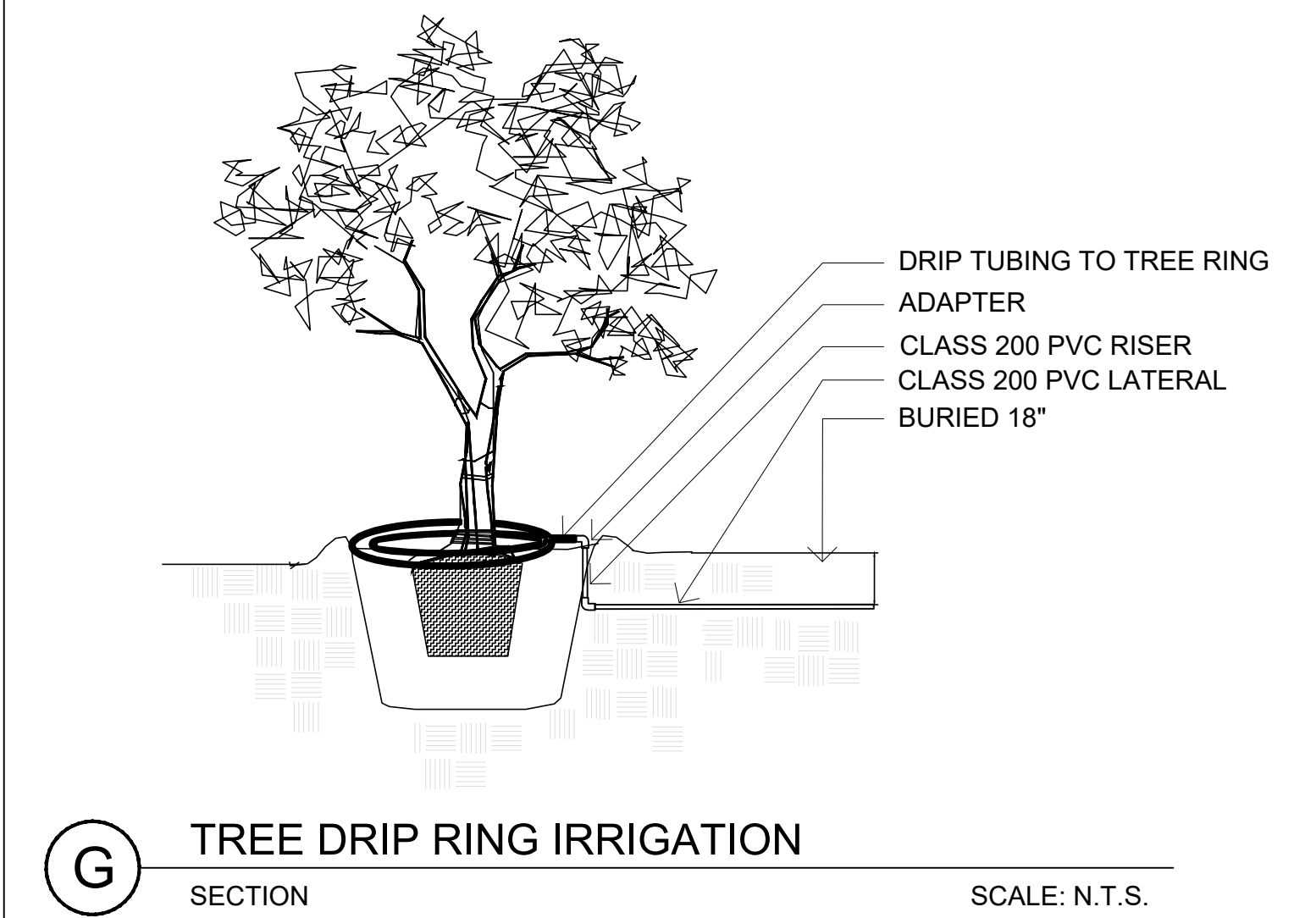
SHEET
L-3

3 of 4 sheets

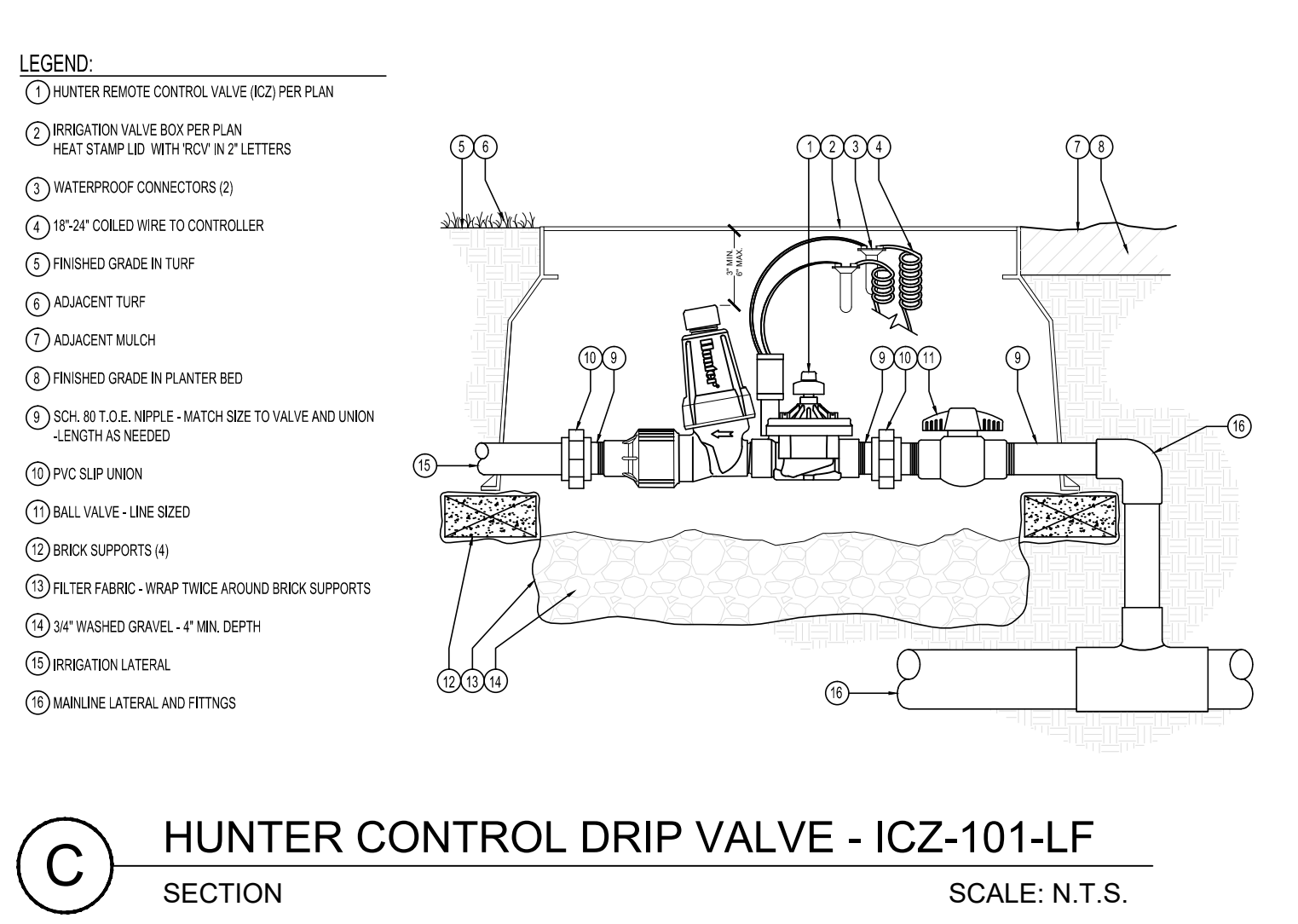
PERMIT SET



K QUICK COUPLER / HOSE BIB SECTION SCALE: N.T.S.



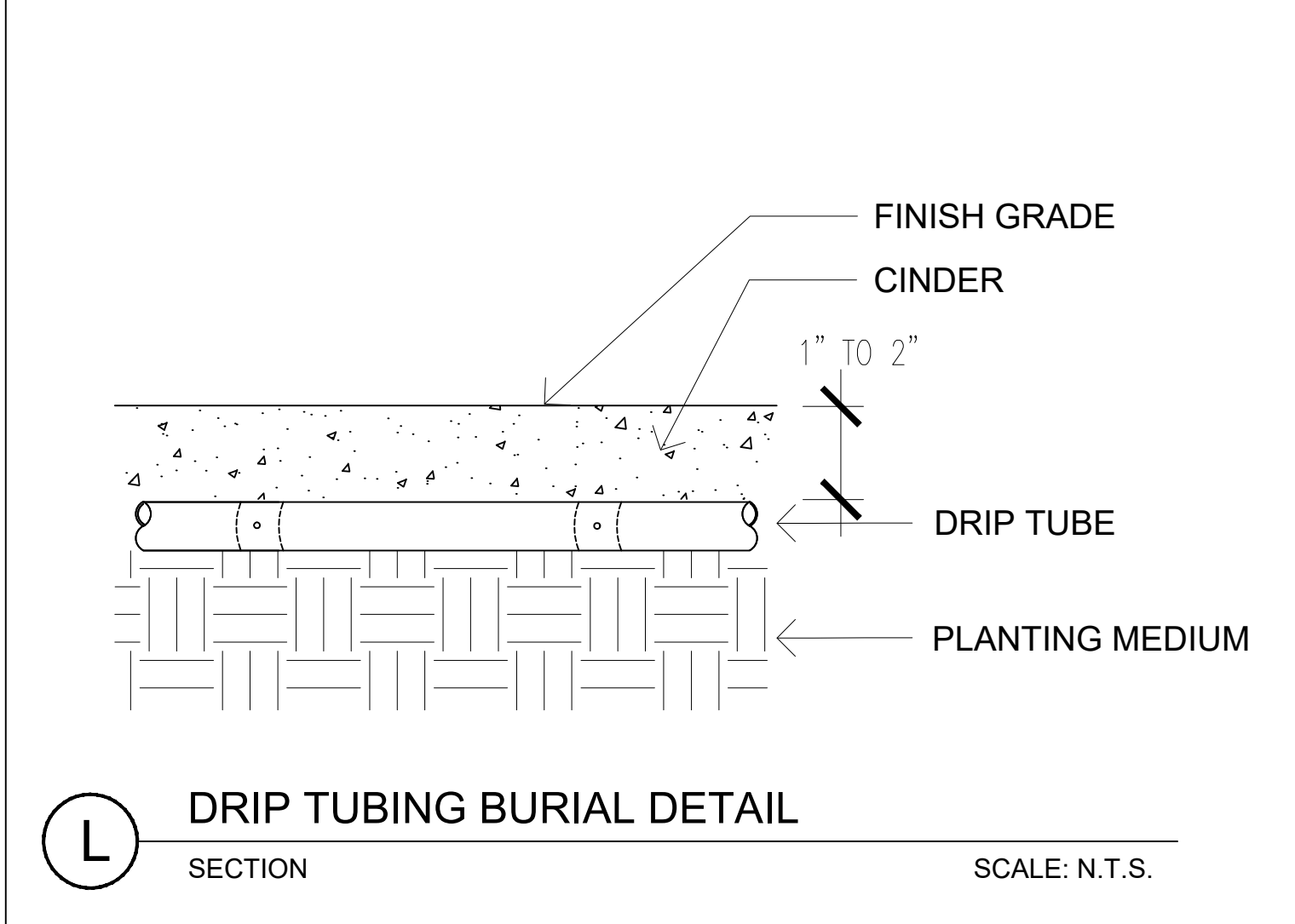
G TREE DRIP RING IRRIGATION SECTION SCALE: N.T.S.



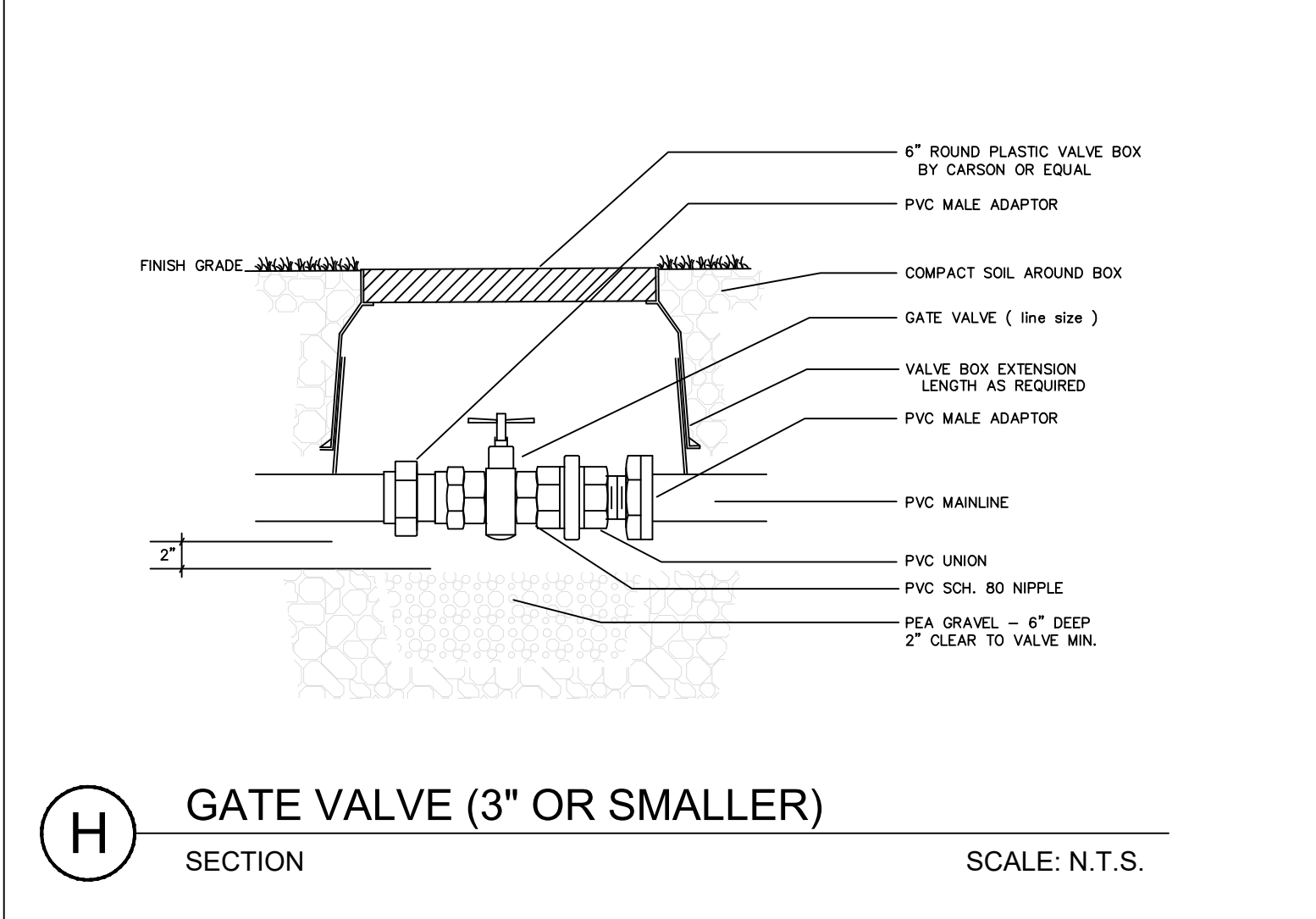
C HUNTER CONTROL DRIP VALVE - ICZ-101-LF SECTION SCALE: N.T.S.

IRRIGATION GENERAL NOTES

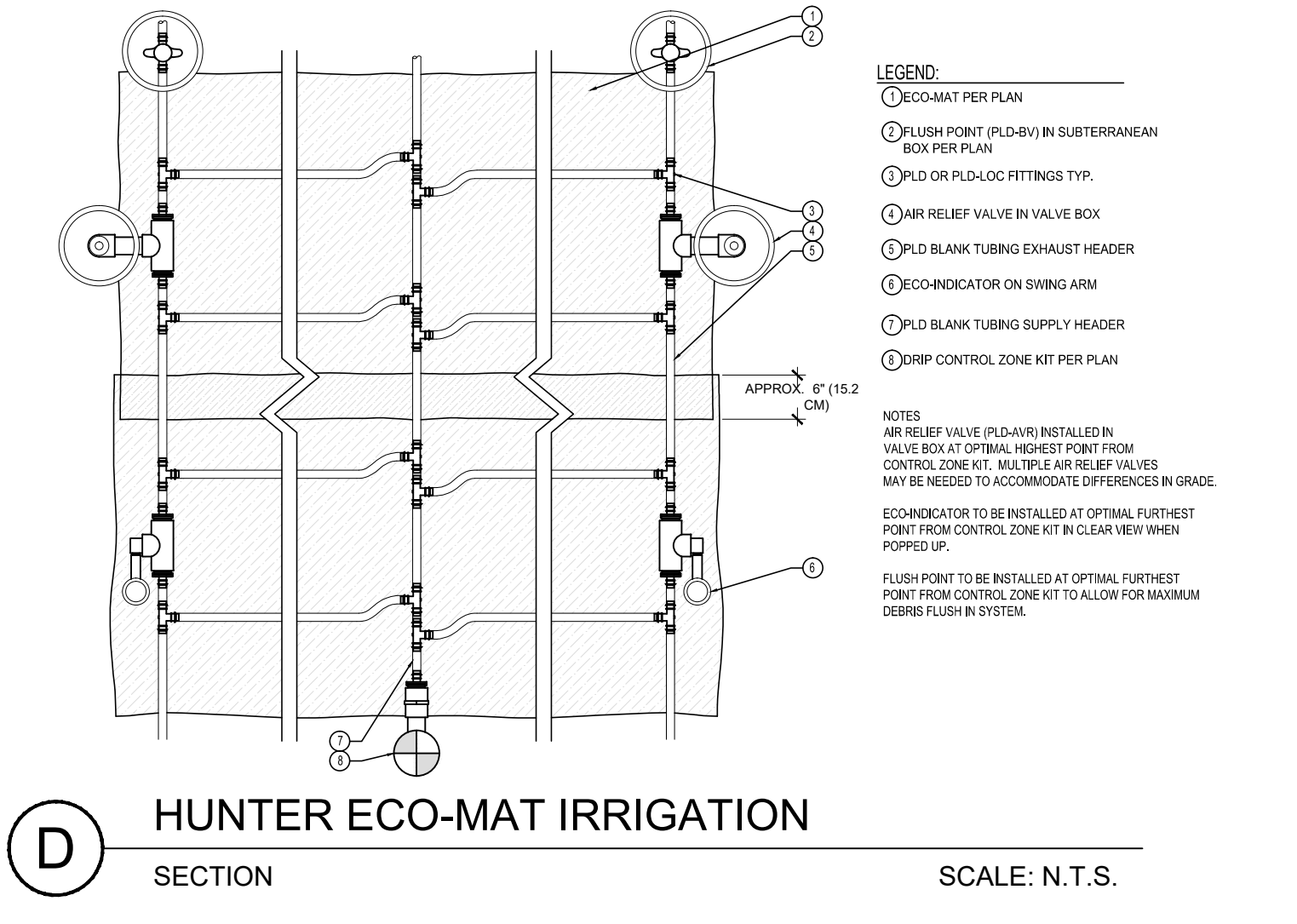
- 110 power to controllers to be provided by general contractor. Irrigation contractor is responsible for coordinating controller placement with general contractor.
- Install low head check valves on any heads requiring them due to low head drainage.
- Coordinate irrigation sleeves and conduit placement with the general contractor.
- All pressure pipe and control wire shall be placed in sch. 40 pipe sleeves if crossing under paving or through walls.
- All irrigation heads to be placed min. 6\"/>



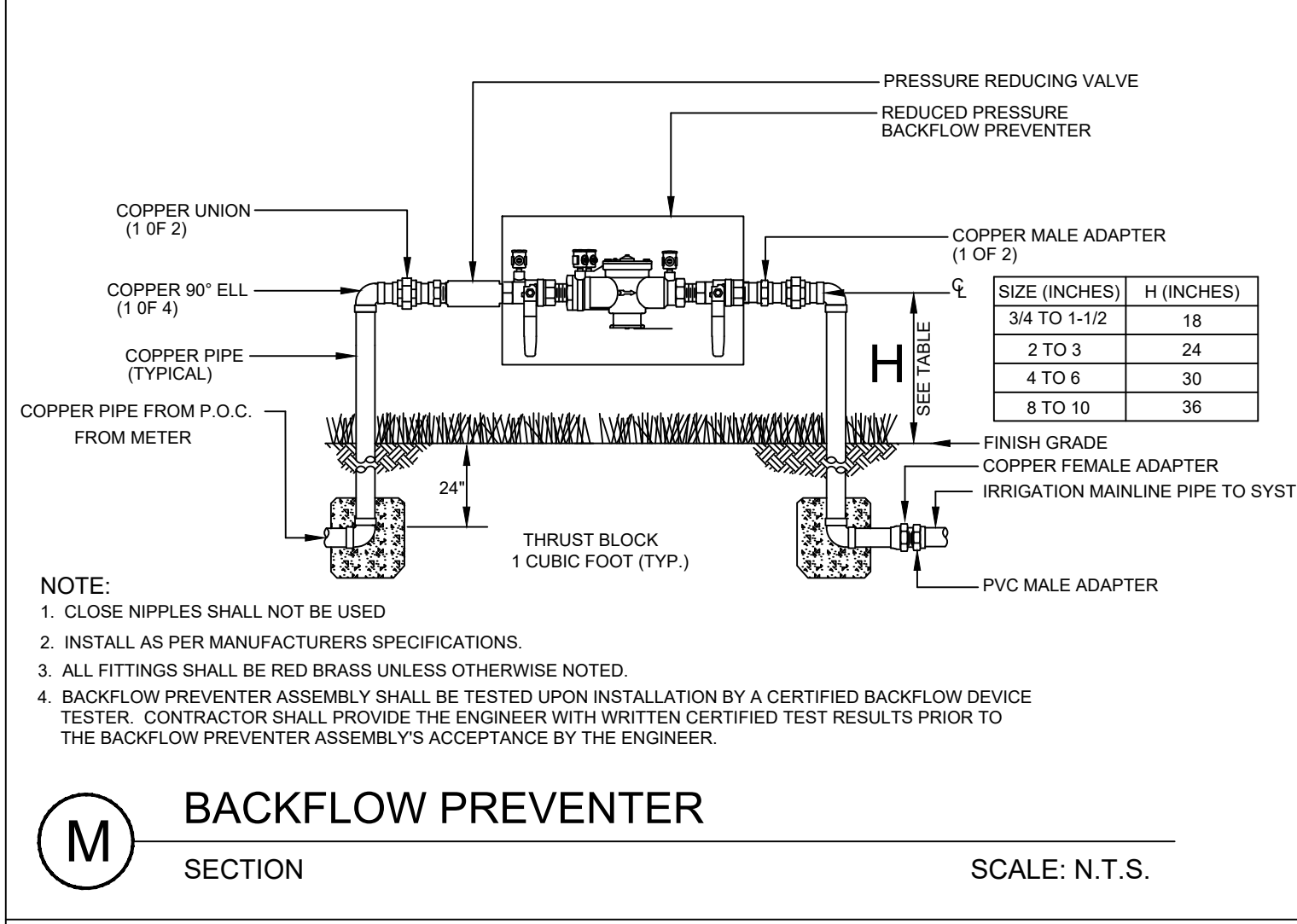
L DRIP TUBING BURIAL DETAIL SECTION SCALE: N.T.S.



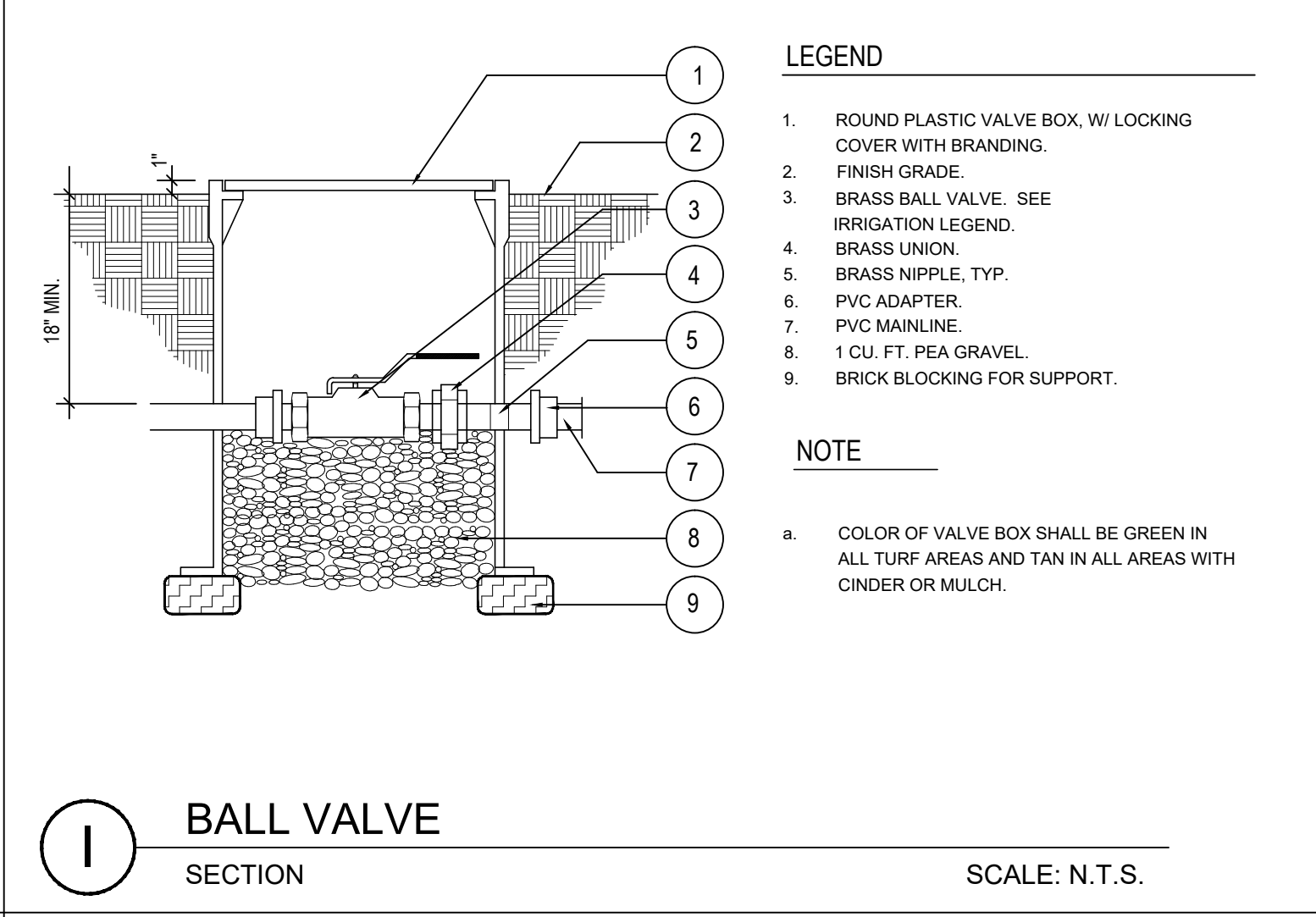
H GATE VALVE (3\"/>



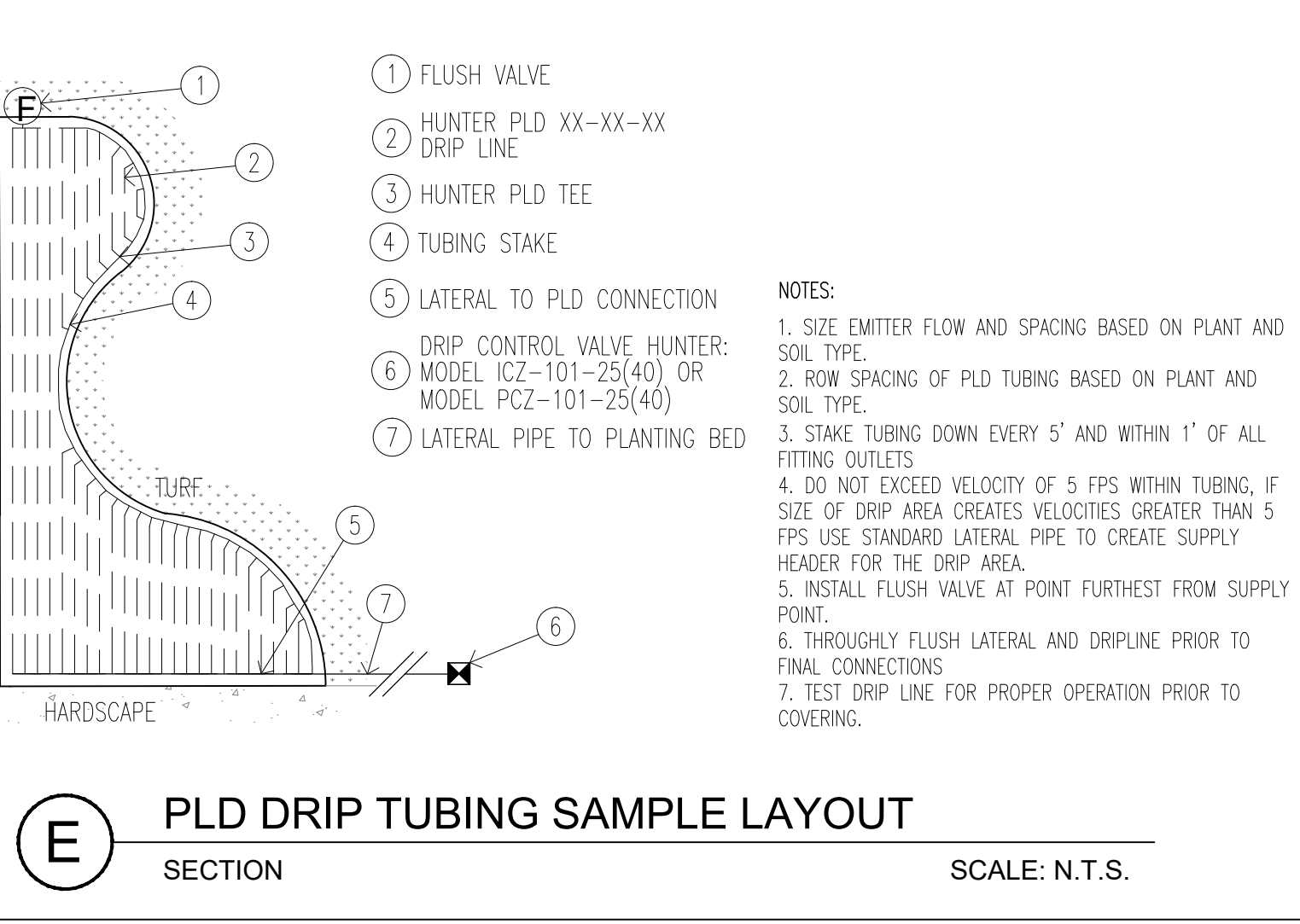
D HUNTER ECO-MAT IRRIGATION SECTION SCALE: N.T.S.



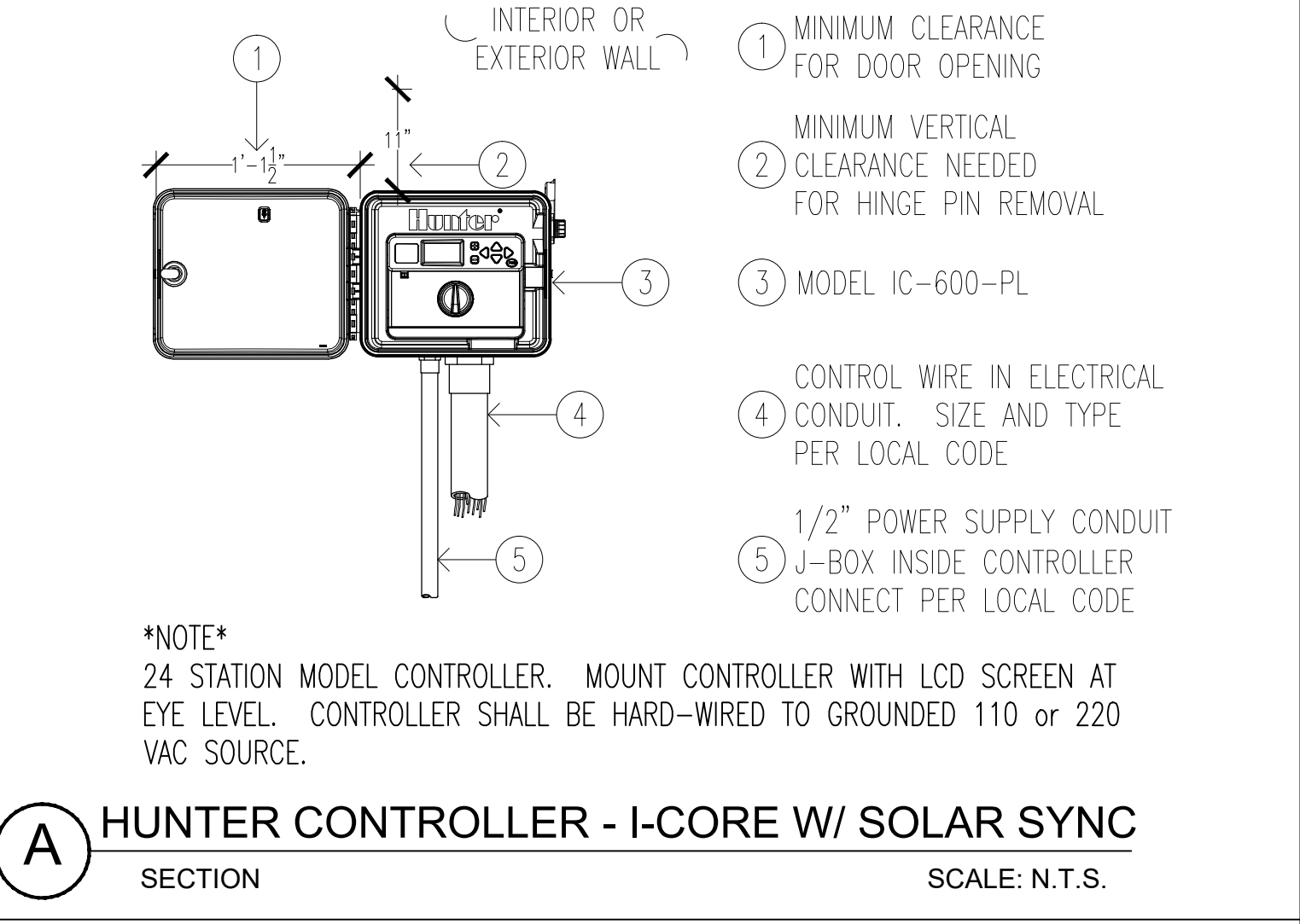
M BACKFLOW PREVENTER SECTION SCALE: N.T.S.



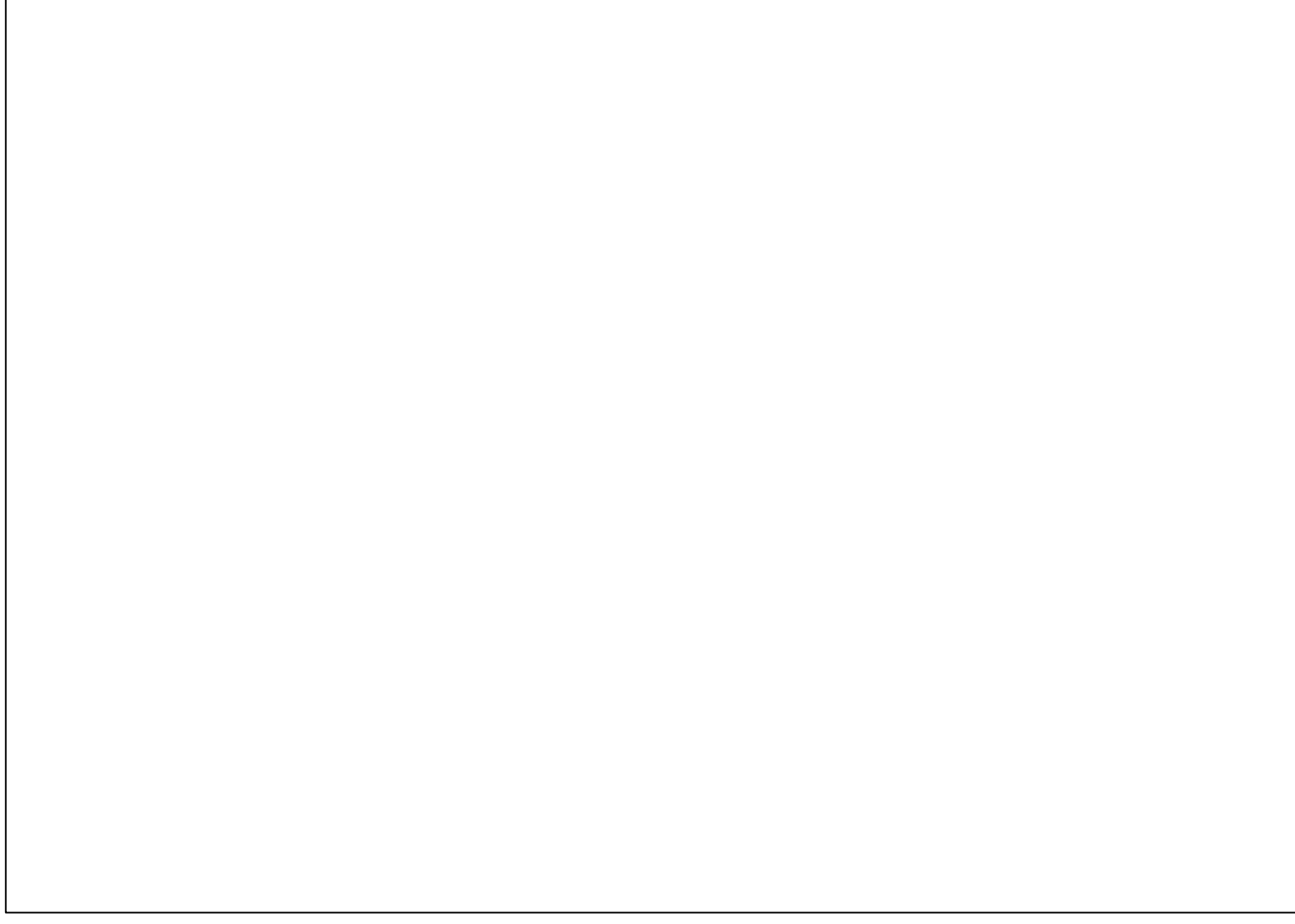
I BALL VALVE SECTION SCALE: N.T.S.



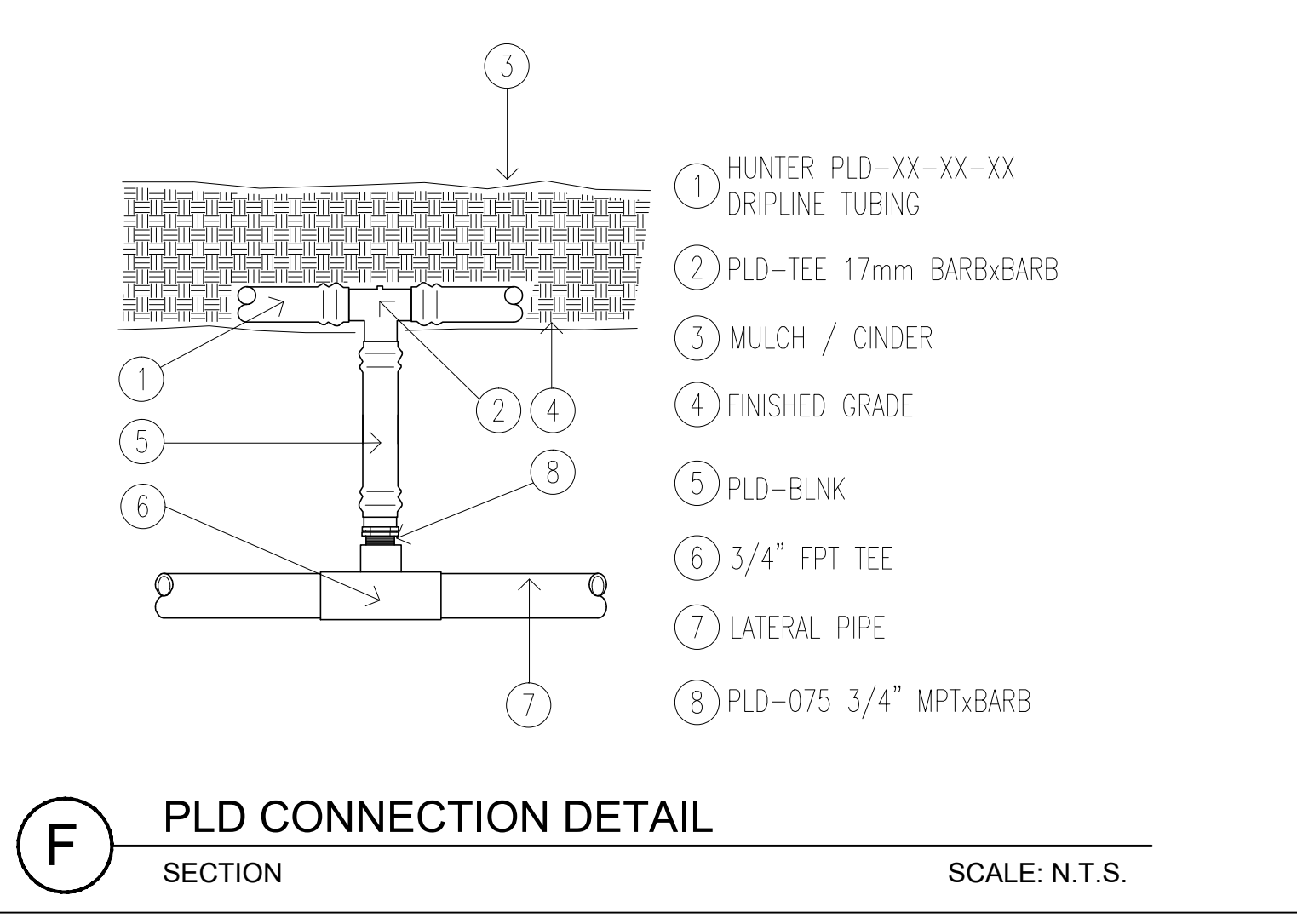
E PLD DRIP TUBING SAMPLE LAYOUT SECTION SCALE: N.T.S.



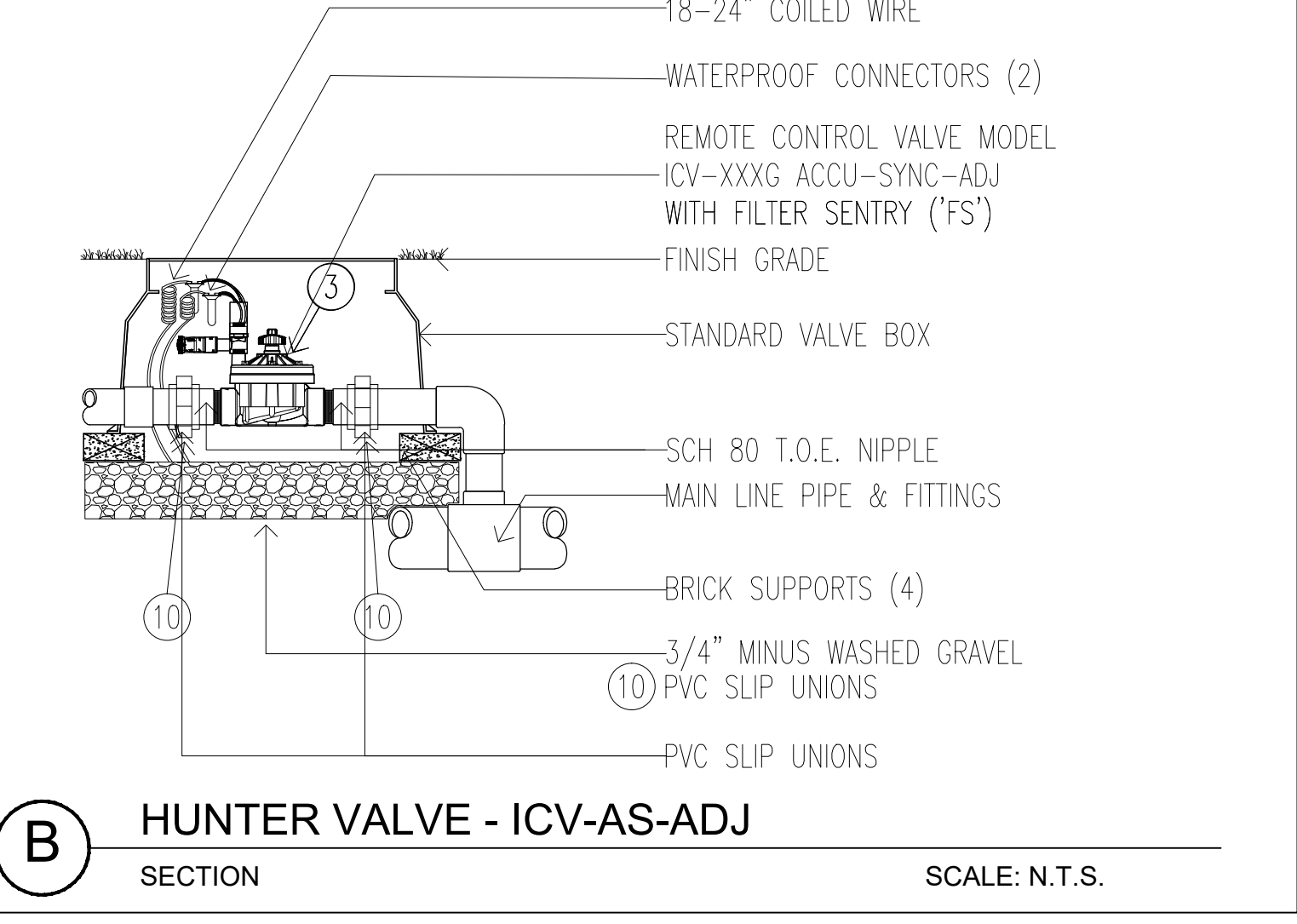
A HUNTER CONTROLLER - I-CORE W/ SOLAR SYNC SECTION SCALE: N.T.S.



J PIPE SLEEVE & TRENCH DETAIL SECTION SCALE: N.T.S.



F PLD CONNECTION DETAIL SECTION SCALE: N.T.S.



B HUNTER VALVE - ICV-AS-ADJ SECTION SCALE: N.T.S.

2020-07-28 DSA REVISIONS

COMM. ENERGY CODE CERTIFICATE

COUNTY OF MAUI MAUI COUNTY CODE, CHAPTER 16,16B ENERGY CODE COMMERCIAL PROVISIONS	
COMPLIANCE METHOD CHECK APPLICABLE METHOD	
<input type="checkbox"/>	C401.2(1) ANSI/ASHRAE/IESNA 90.1
<input checked="" type="checkbox"/>	C401.2(2) SECTIONS C402 THROUGH C406
<input type="checkbox"/>	C401.2(3) SECTIONS C402.5, C403.2, C404, C405.2, 405.3, C405.4, C405.6 & C407
<input type="checkbox"/>	C102.1 ALTERNATIVE
TO THE BEST OF KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE ENERGY CODE.	
SIGNATURE:	DATE: 6-17-19
NAME: ANTHONY RIECKE GONZALES	
TITLE: ARCHITECT	
LICENSE NO.: #6471	

CODE SUMMARY

- Applicable Codes:**
- International Building Code, 2006 Edition
 - Modified by Ordinance #3928, 2012
 - Uniform Plumbing Code, 2006 Edition
 - Modified by Ordinance #3923, 2012
 - National Electrical Code, 1999 Edition
 - Modified by Ordinance #2871, 2000
 - Uniform Fire Code, 1997 Edition
 - Modified by Ordinance #3354, 2006
 - International Energy Conservation Code, 2006 Edition
 - Modified by Ordinance #3865, 2009
 - Accessible Means of Egress: International Building Code, 2003 Edition, Section 1007
 - per ADAAG 207.1

Project Description:

COMMERCIAL BUS HUB

OCCUPANCY GROUP: A3
TYPE OF CONSTRUCTION: V-B

ALLOWABLE AREA: 5,500 X 2 F.S. = 11,000 S.F.
BUILDING AREA: 8,500 S.F.

MAXIMUM HEIGHT: 50 ft./ 2 stories
ACTUAL HEIGHT: 29'-0"

FIRE SPRINKLER SYSTEM: YES
FIRE EXTINGUISHERS: YES
OCCUPANCY LOAD REQUIREMENT: see occupancy load summary
MINIMUM EXITS (3 REQUIRED): 3

Fire Resistive Requirements for Type V-B Construction: (2006 IBC, Table 601)

- | | |
|---|-------|
| 1. Structural Frame: | 0 hr. |
| 2. Bearing walls, Exterior: | 0 hr. |
| 3. Bearing walls, Interior: | 0 hr. |
| 4. Nonbearing walls and partitions, Exterior: | 0 hr. |
| 5. Nonbearing walls and partitions, Interior: | 0 hr. |
| 6. Floor Construction: | 0 hr. |
| 7. Roof Construction: | 0 hr. |

Exit Width:

Exit width = total occupant load 513 x 0.15 (2006 IBC, Table 1005.1)
78 inches/ 3 EXIT = 36" MINIMUM EACH EXIT.

Distance to Exits:

The maximum length of exit access travel shall not exceed the distances given in 2006 IBC Table 1016.1. (200 ft.)
The maximum travel distance in this building is 135 feet.

Occupancy Category:

Category II - Buildings and other structures except those listed in Occupancy Categories I, III and IV. (Table 1604.5)

Wind Loads:

Effective Wind Speed: 90 MPH (1609.3.2 Effective Basic Wind Speed)
Wind Topographic Factor: 1.0 (1609.3.3 Topographic Effects)
Exposure Category: B (1609.4.4 Exposure Category Maps)

PROJECT INFORMATION

BUILDING ADDRESS: VEVAU STREET
WAILUKU, MAUI, HAWAII 96793

TAX MAP KEY: (2) 3-7-004:003
LOT AREA: 5 ACRES (.85 LEASE AREA)

COUNTY ZONING: B-2 COMMUNITY BUSINESS

STATE LAND USE: Urban

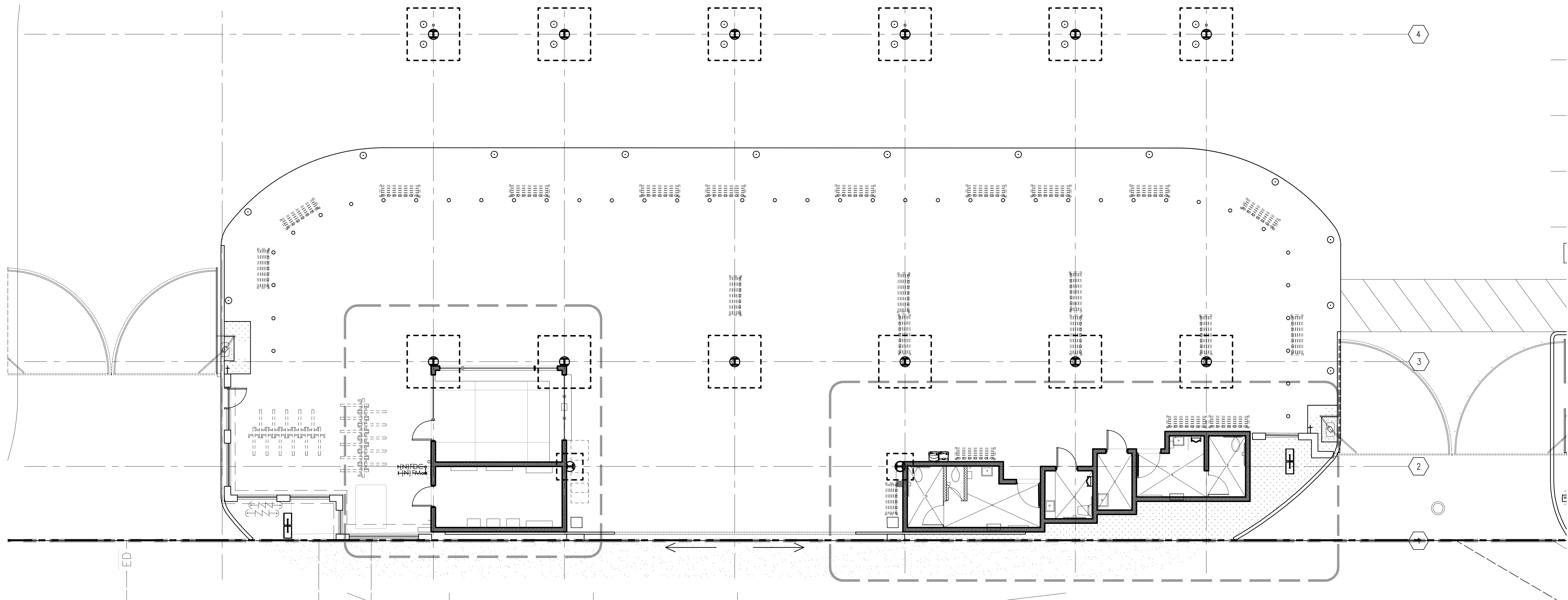
FLOOD ZONE: X

SEWER: SEWER

BUILDING AREA: 8,500 S.F.

OCCUPANCY LOAD SUMMARY

ROOM OCCUPANCY	AREA (SF)	SF PER PERSON	NO. OF PERSONS	NO. OF REQ. EXITS	WIDTH (in.)
WAITING AREA	7,700	15	513	3	0.15
OFFICE	272	100	2	1	0.15
Women's Restroom	172	100	2	1	0.15
Men's Restroom	142	100	2	1	0.15
Janitor	52	300	1	1	0.15
TOTAL OCCUPANT LOAD:			520		



1 EXITING PLAN
1/8"=1'-0"

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EXPIRATION DATE OF LICENSE:
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OCCUPANCY & EXITING PLAN

REVISIONS
2020-01-23 DESIGN DEVELOPMENT PROGRESS PLANS
2020-05-05 PERMIT SET
2020-07-28 DSA REVISIONS
AUGUST 7, 2020 BID SET

A0.1

SHEET OF
PROJECT NO. 2018-018
DATE: MAY, 2018

GENERAL NOTES

1. THE CONTRACT DOCUMENTS ARE ENUMERATED IN THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR AND CONSIST OF THE AGREEMENT, CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS), DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO THE EXECUTION OF THE CONTRACT, OTHER DOCUMENTS LISTED IN THE AGREEMENT AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THE CONTRACTOR SHALL COMPLY WITH AND GIVE NOTICES REQUIRED BY APPLICABLE LAWS, STATUTES, ORDINANCES, CODES, RULES AND REGULATIONS, AND LAWFUL ORDERS OF THE PUBLIC AUTHORITIES APPLICABLE TO PERFORMANCE OF THE WORK.

19. THE CONTRACTOR SHALL IN ALL RESPECTS COMPLY WITH ALL REGULATIONS OF THE BUILDING MANAGEMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN SUCH REGULATIONS FROM THE BUILDING OWNER. IN THE EVENT OF THE CONFLICT BETWEEN BUILDING REGULATIONS AND OTHER CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE CONSULTED PRIOR TO PROCEEDING.

39. ALL WORK, AS EITHER IMPLIED OR REASONABLY INFERRABLE FROM THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DRAWINGS & SPECIFICATIONS ARE DIRECTED TO THE ATTENTION OF THE CONTRACTOR AND NOT TO BE CONSIDERED BY MENTION. NOTE, DETAIL, ITEMIZATION OR IMPLICATIONS, HOWEVER BRIEF, ALL WORK PERFORMED SHALL INCLUDE ALL APPURTENANCES AND APPARATUS NORMAL DEEMED TO BE PART OF THE COMPLETED PACKAGE WITH THE DEFINITIONS OF NORMAL INDUSTRY STANDARDS.

50. THE CONTRACTOR SHALL LEAVE ALL CHASES, HOLES, OR OPENINGS TRUE AND PROPER SIZE IN THEIR OWN WORK, OR CUT SAME IN EXISTING WORK AS MAY BE NECESSARY FOR THE PROPER INSTALLATION OF THEIR OWN OR OTHER CONTRACTOR WORK, INCLUDING THOSE CONTRACTS WHICH HAVE BEEN SEPARATELY CONTRACTED BY THE OWNER, CONSULTING WITH OTHER CONTRACTORS CONCERNED REGARDING PROPER LOCATION AND SIZE OF THE SAME. IN CASE OF THEIR PROPER FAILURE TO LEAVE OR CUT SAME IN THE PROPER PLACE, THEY SHALL CUT THEM AFTERWARDS AT THEIR OWN EXPENSE. NO EXCESSIVE CUTTING SHALL BE PERMITTED NOR SHALL ANY STRUCTURAL MEMBERS BE CUT WITHOUT THE CONSENT OF THE ARCHITECT. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE COORDINATION, REPAIR TRADES THAT WILL BE SUBSEQUENTLY LET UNDER SEPARATE CONTRACT BY THE OWNER OR THE ARCHITECT.

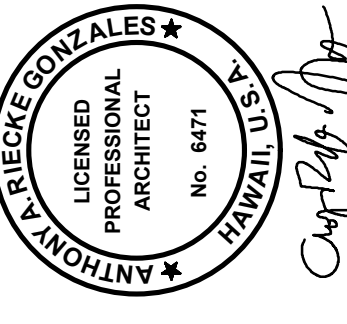
CONSTRUCTION NOTES
1. FINAL PLACEMENT OF ALL PARTITIONS TO BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK.

CONSTRUCTION NOTES
1. SEE ENGINEER'S DRAWINGS FOR ALL CIRCUITING & RELATED WORK.

POWER & COMMUNICAT'N
1. SEE ENGINEER'S DRAWINGS FOR ALL CIRCUITING & RELATED WORK.

PAINTING FINISH NOTES
10. APPLICATIONS: APPLY PAINT IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS INCLUDING USE OF APPLICATIONS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED.

TRANSIT HUB
2020-01-23 DESIGN DEVELOPMENT PROGRESS PLANS
2020-05-05 PERMIT SET
AUGUST 7, 2020 BID SET
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2020-01-23 DESIGN DEVELOPMENT PROGRESS PLANS
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A0.3

PROJECT NO. 2018-018
DATE: MAY, 2018

ADA REQUIREMENTS & ACCESSIBILITY CLEARANCES

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LEGEND

Convention	Description
	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
	dimension for small measurements
	dimension showing a range with minimum - maximum
	minimum
	maximum
	greater than
	less than
	less than or equal to
	greater than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

ACCESSIBILITY SIGNAGE

SIGNAGE REQUIRED TO BE ACCESSIBLE AND IT SHOULD COMPLY WITH 2010 A.D.A. STANDARDS

CHARACTER HEIGHT CHARACTER AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED.

MOUNTING LOCATION AND HEIGHT WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR INCLUDING AT DOUBLE LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITH ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.

NOTE:

SIGNAGE MUST BE DESIGNED IN COMPLIANCE WITH 2010 A.D.A. STANDARDS (ACCESSIBILITY).

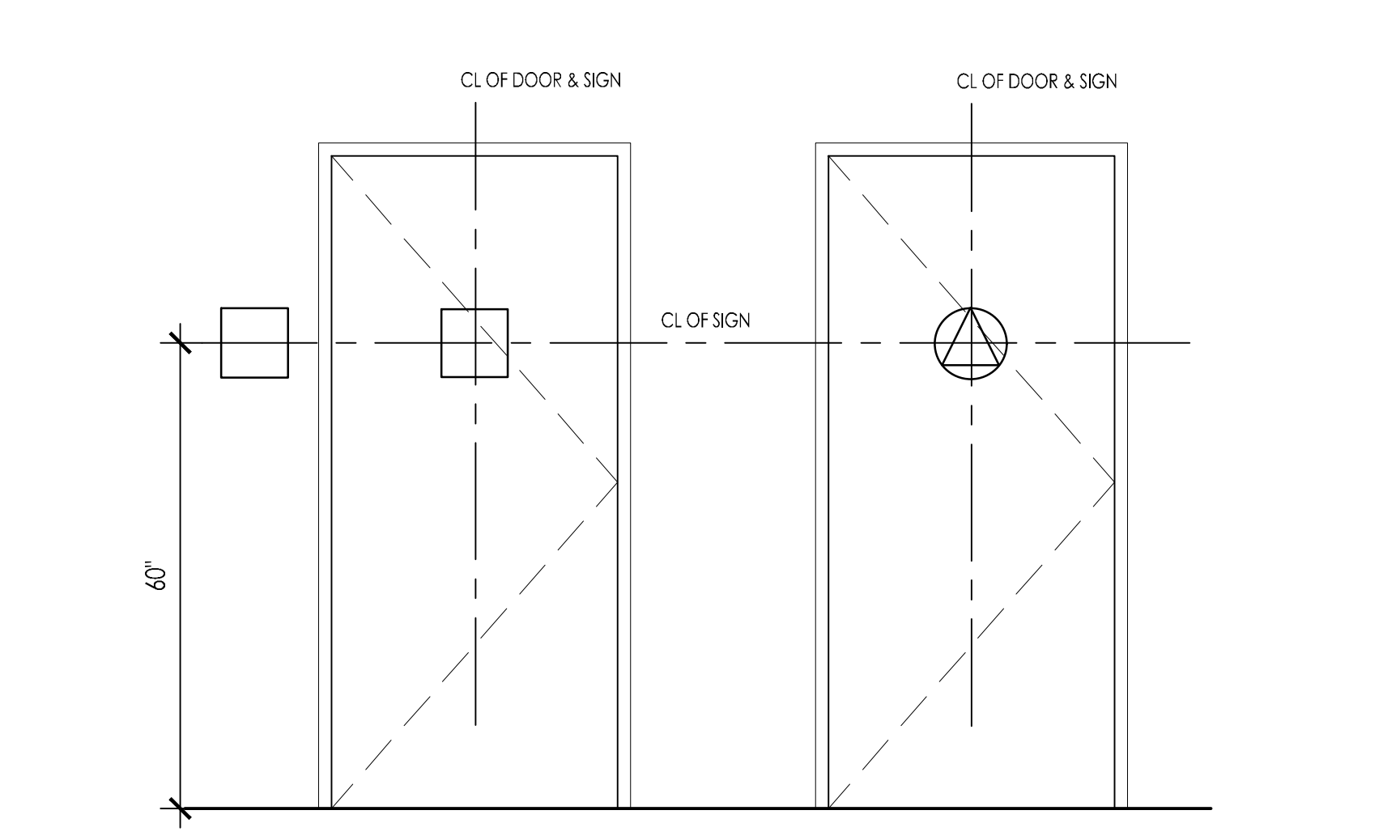
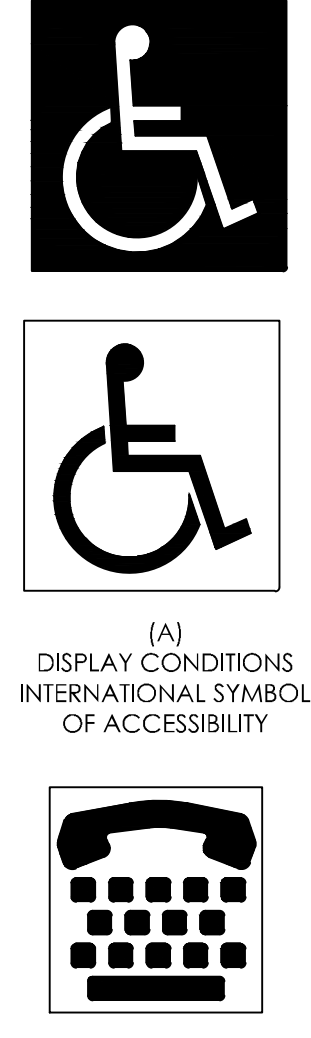
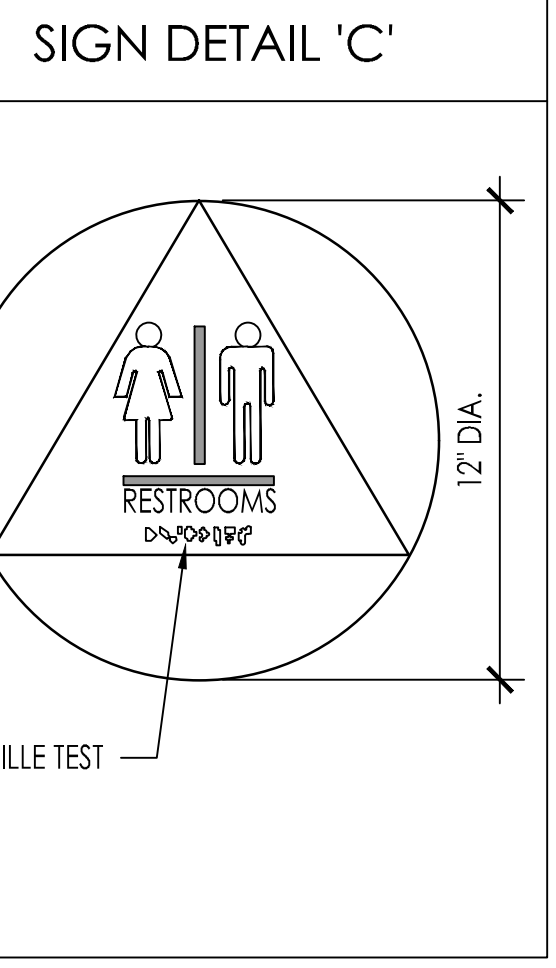
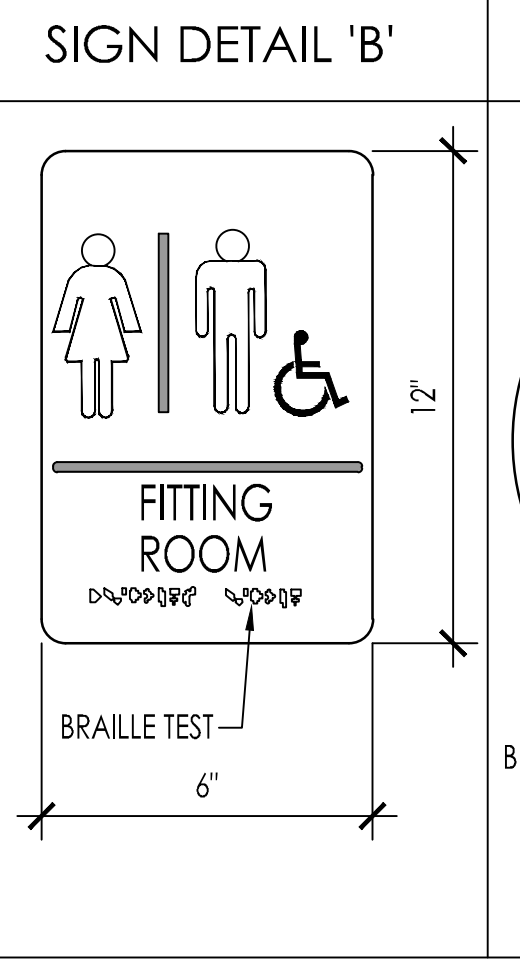
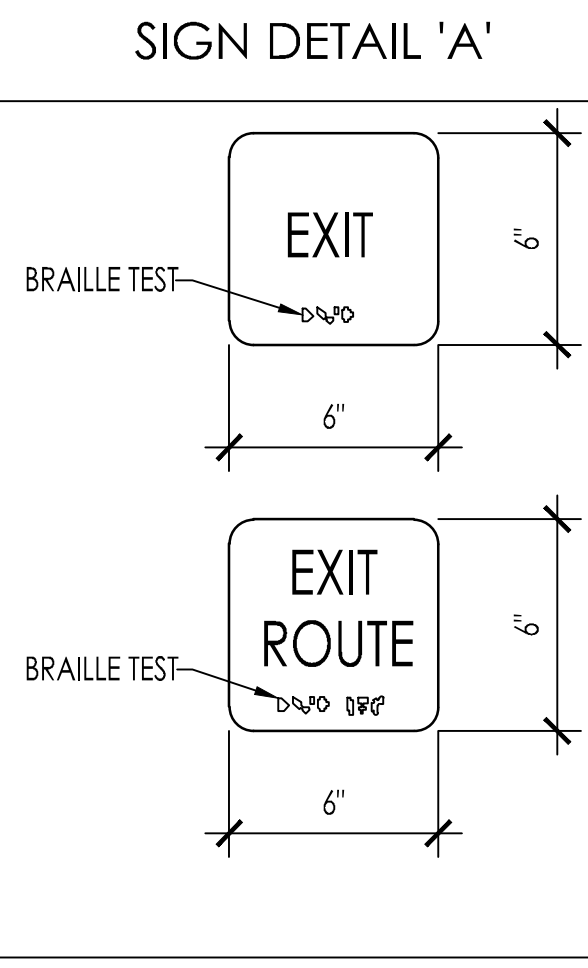
IDENTIFICATION SYMBOLS - SANITARY FACILITIES (GENERAL)

A. UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THK., 12" IN DIAMETER, WITH A 1/4" THK. TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER AS PER 111.58.5

B. GEOMETRIC (CIRCLE & TRIANGLE) SYMBOLS ON SANITARY FACILITY DOORS SHALL BE CENTERED ON THE DOOR AT HGT. OF 60" AND THEIR COLOR & CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR AS PER 111.58.5.

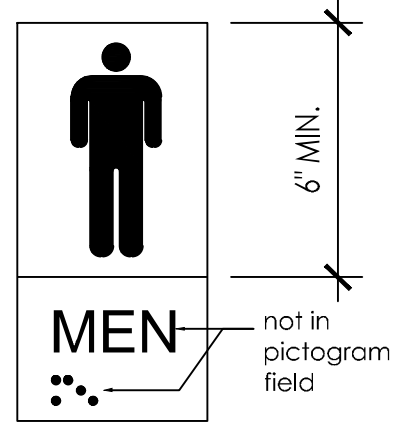
C. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED & SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 111.78.5.6. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OUTSIDE OF DOOR WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" A.F.F. TO CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR AS PER SECTION 111.78.5.9

- 1.) DOOR SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED CLEAR WIDTH OF DOORWAY IS NOT AT LEAST 32".
- 2.) LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.
- 3.) MAXIMUM EFFORT TO OPERATE FIRE DOORS SHALL BE 15LBS. AT OTHER INTERIOR DOORS, MAXIMUM EFFORT TO OPERATE SHALL BE 5LBS.

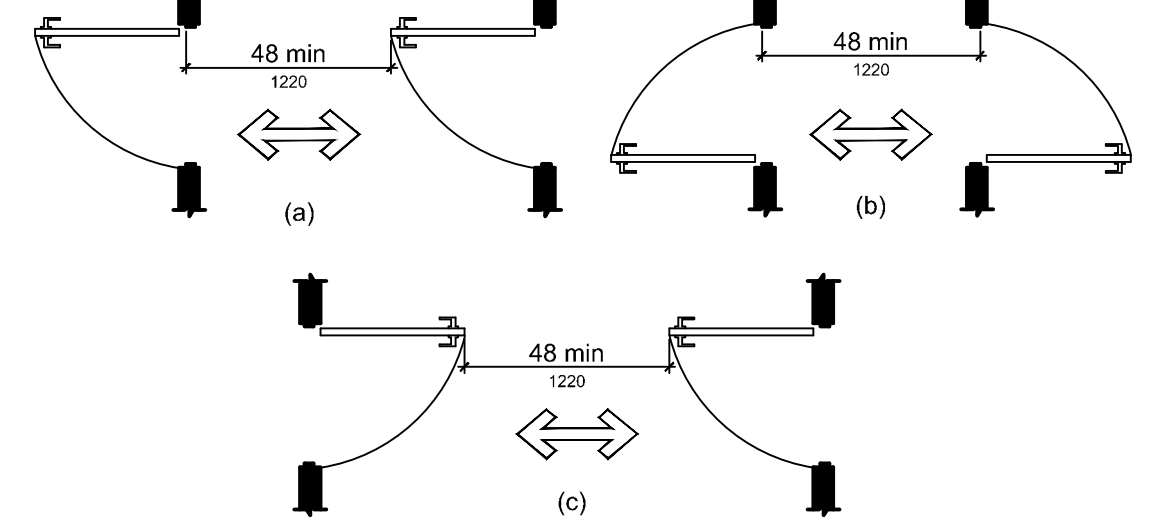
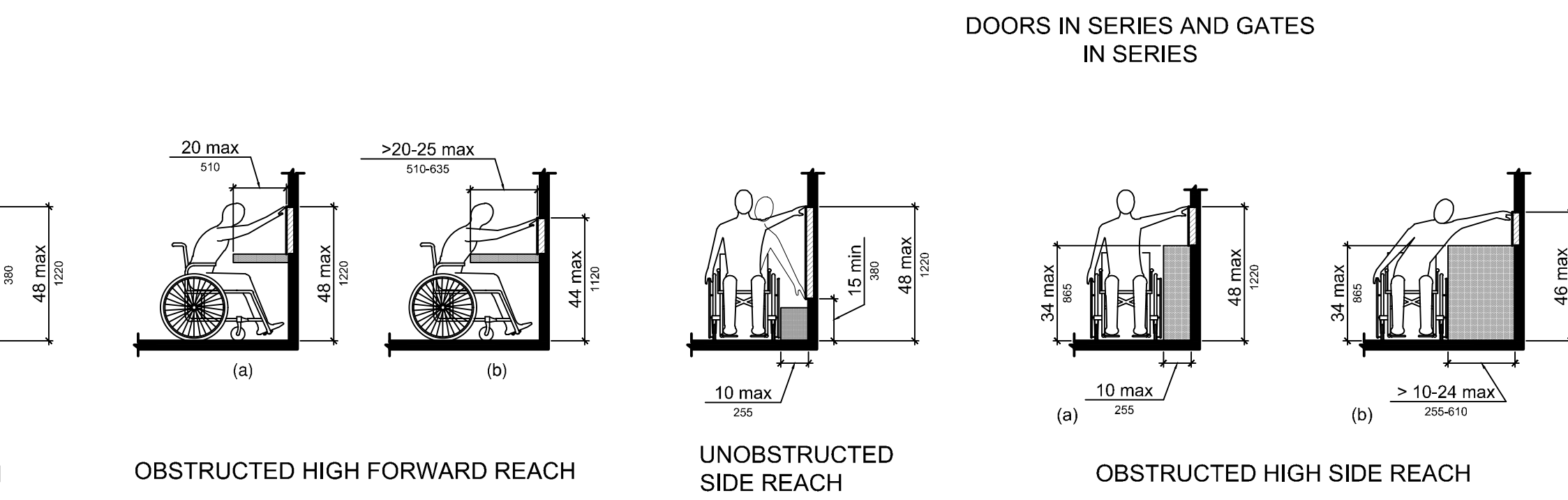
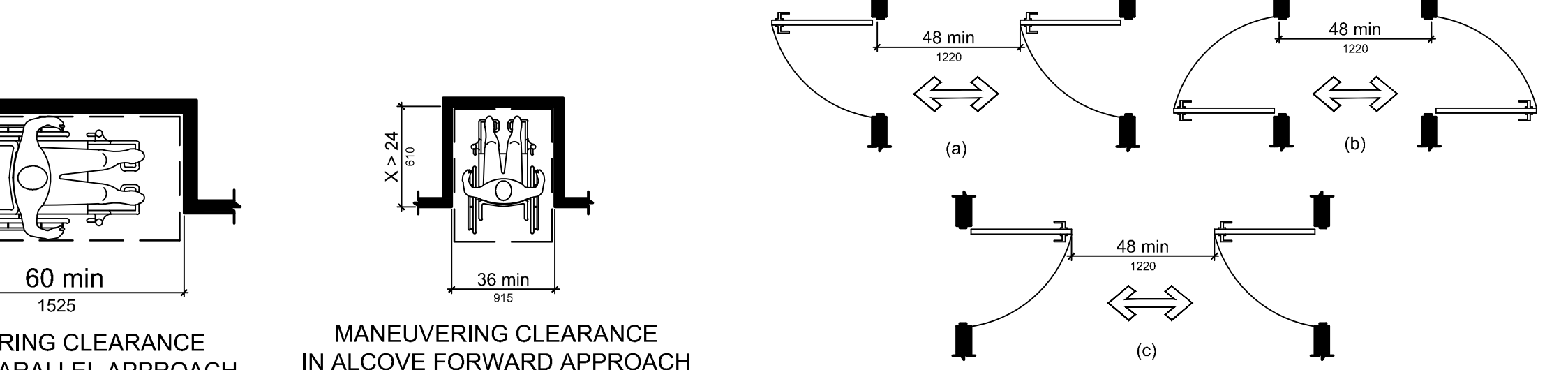
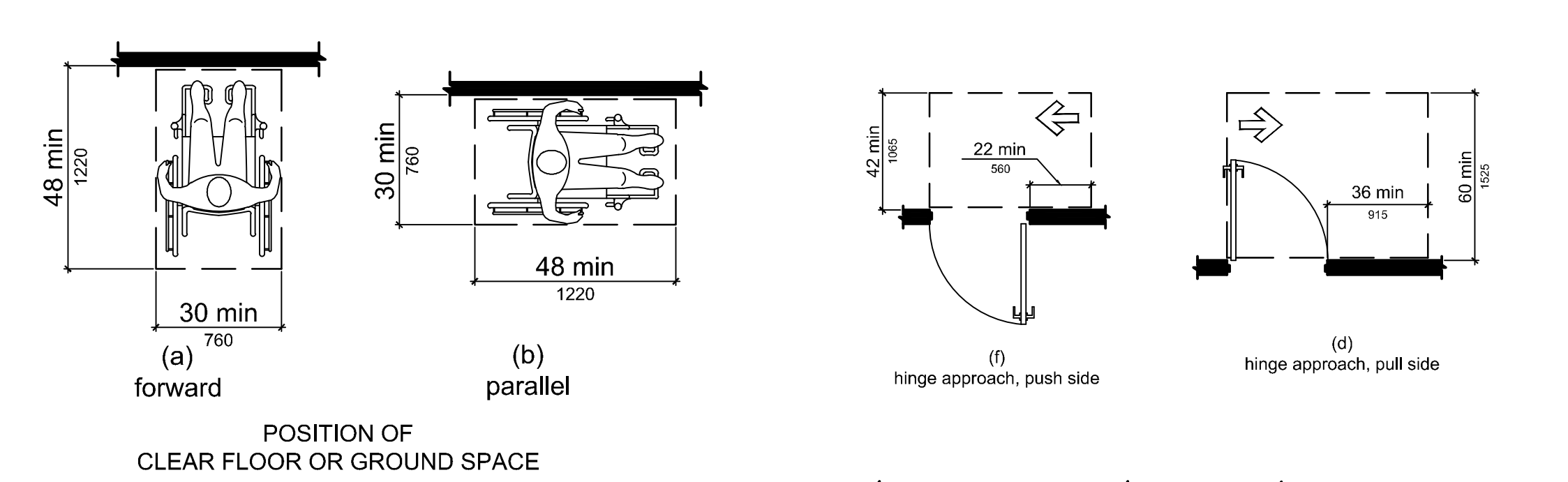
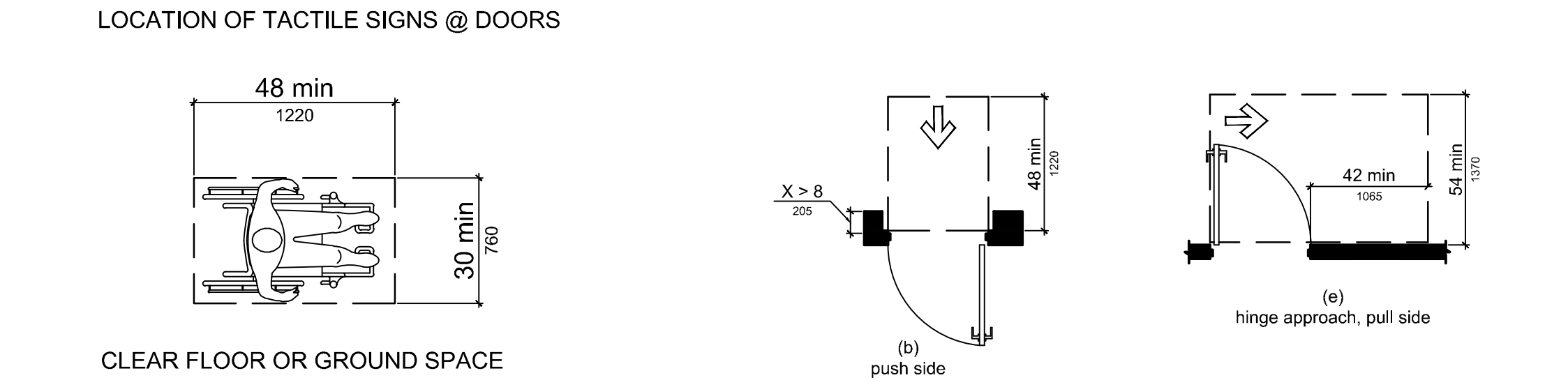
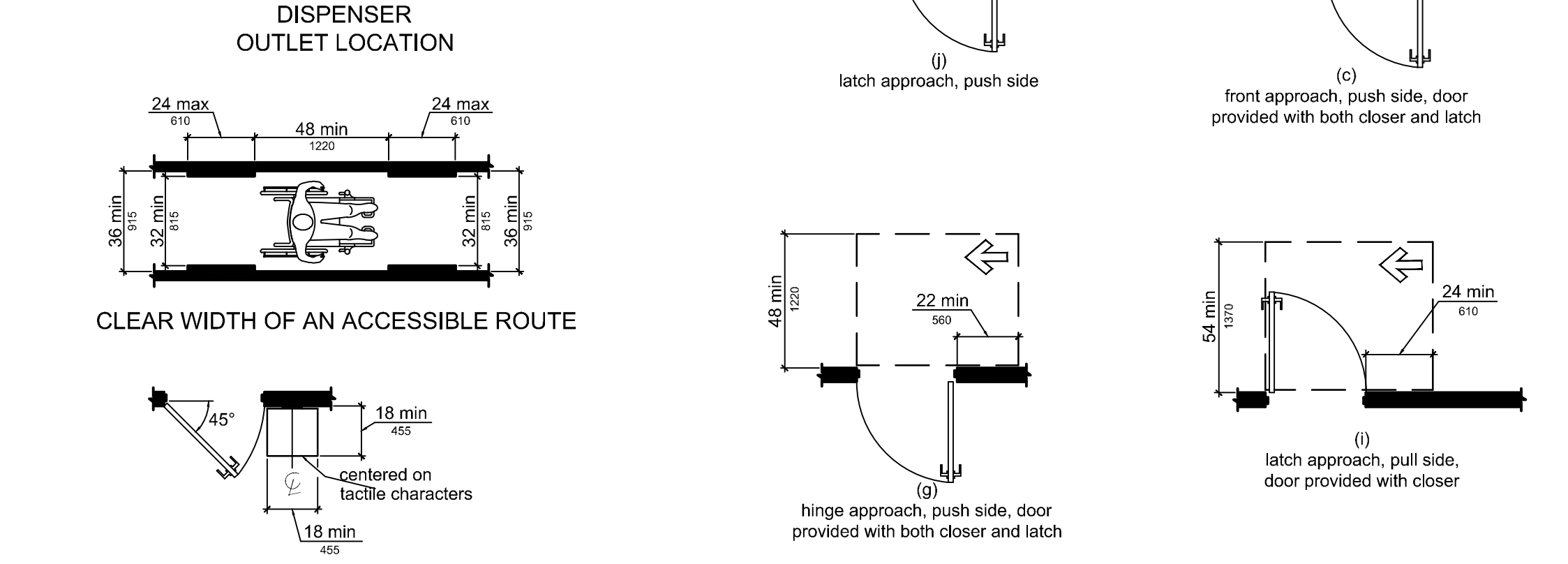
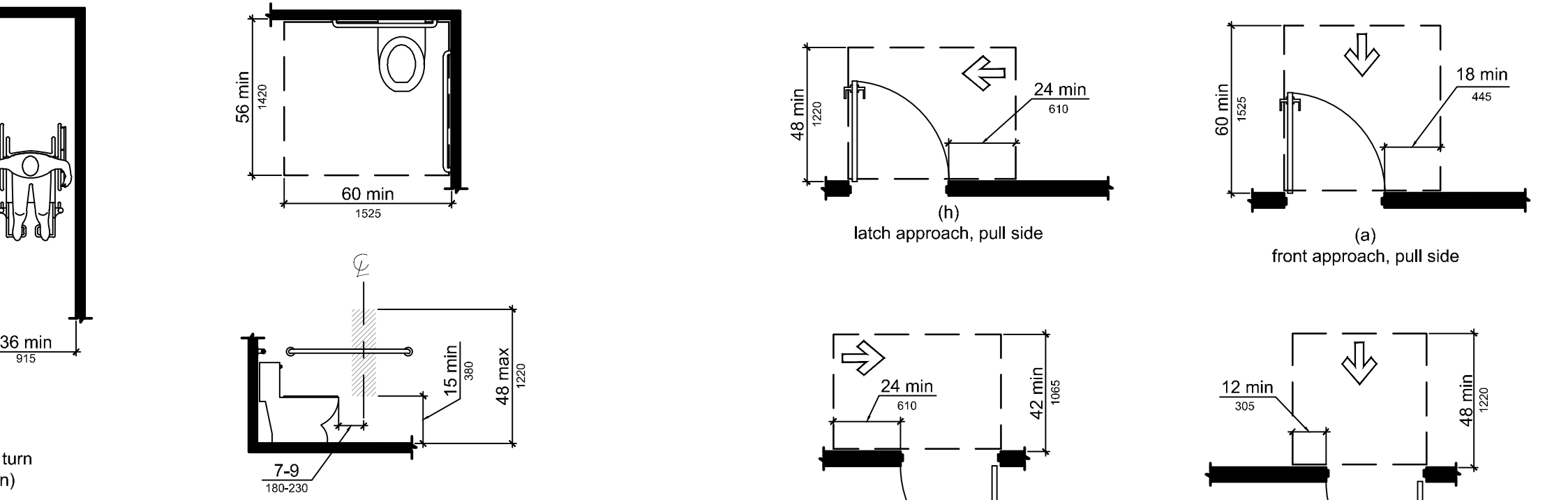
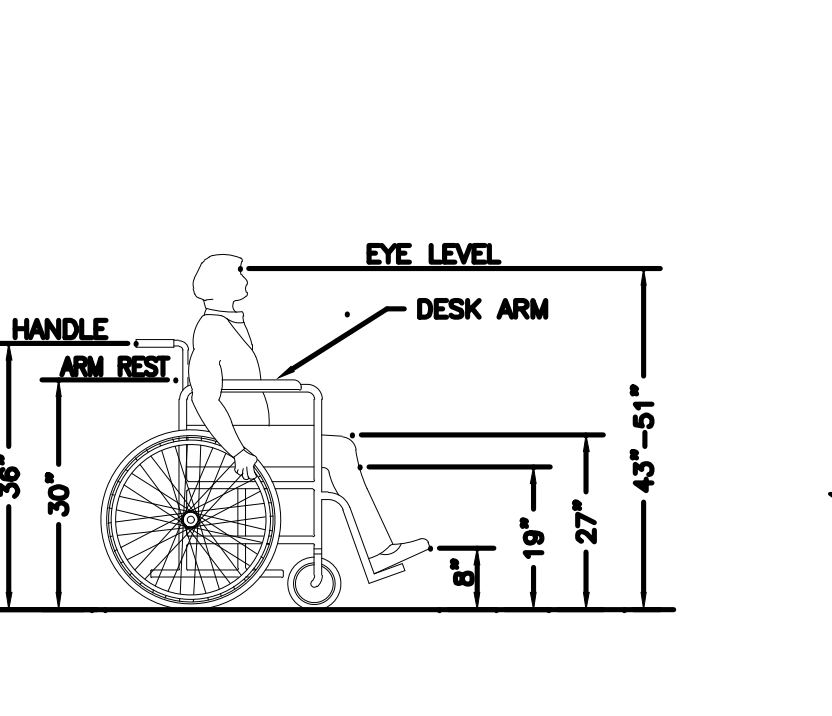
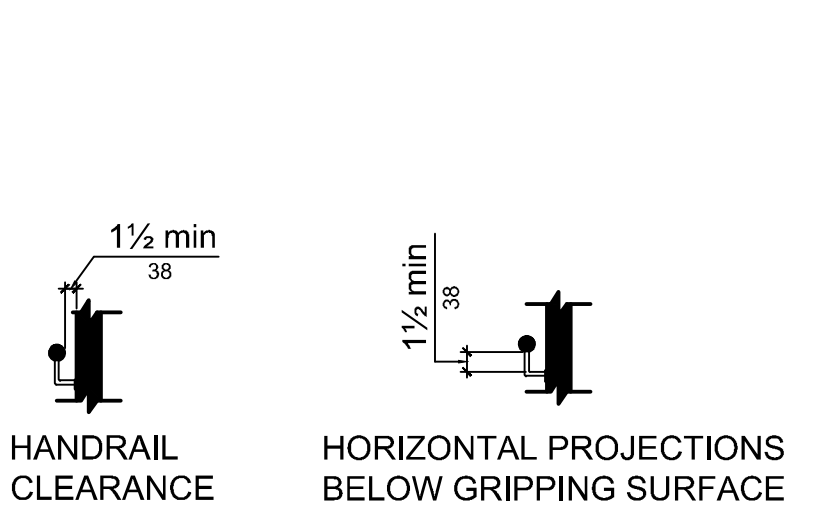
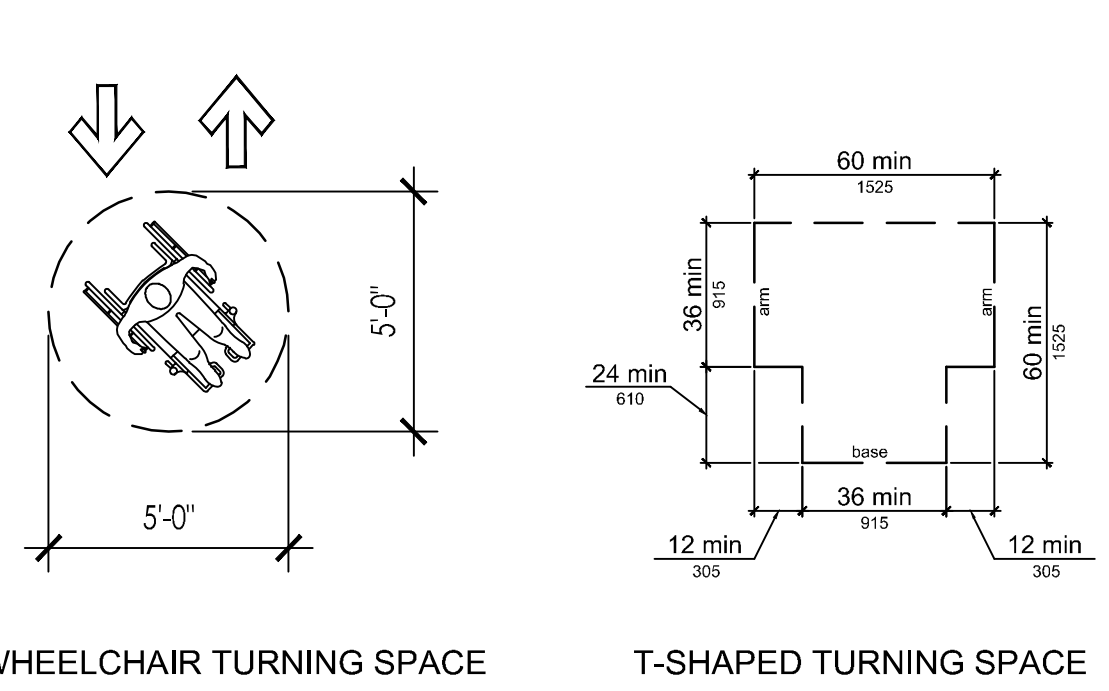
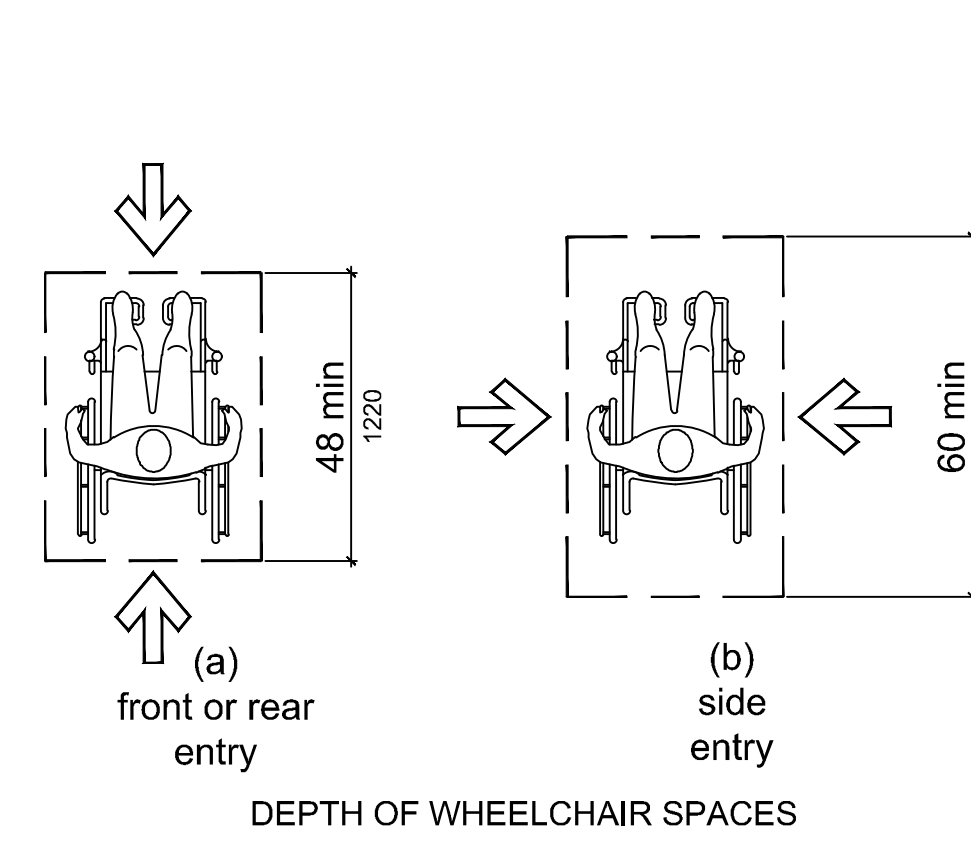
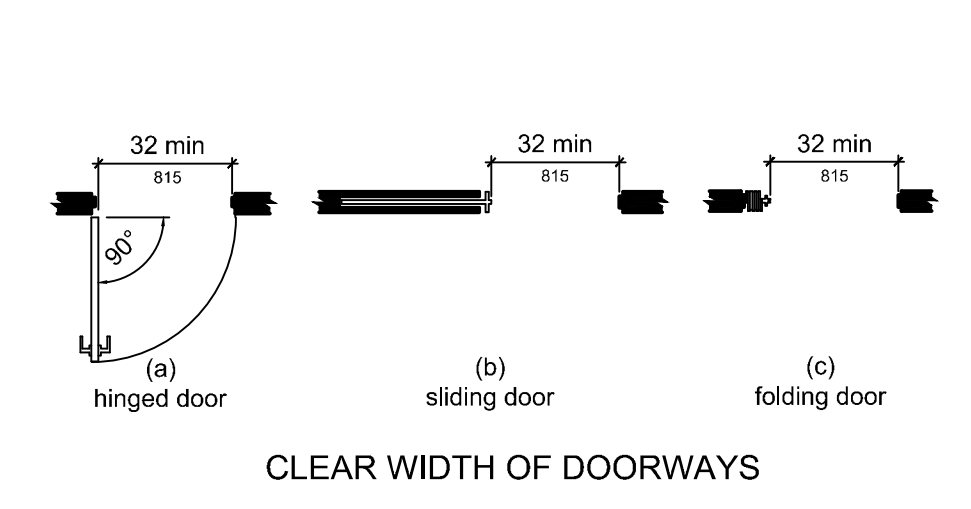
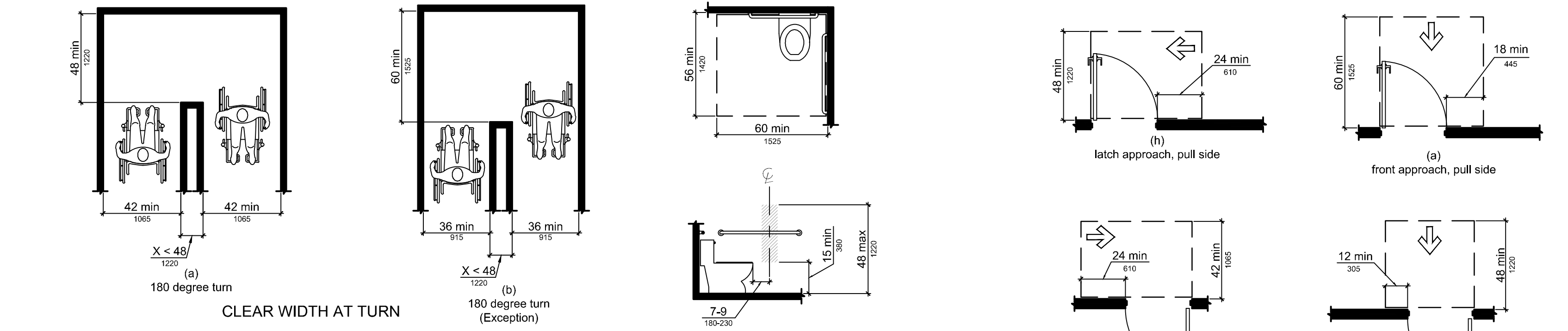


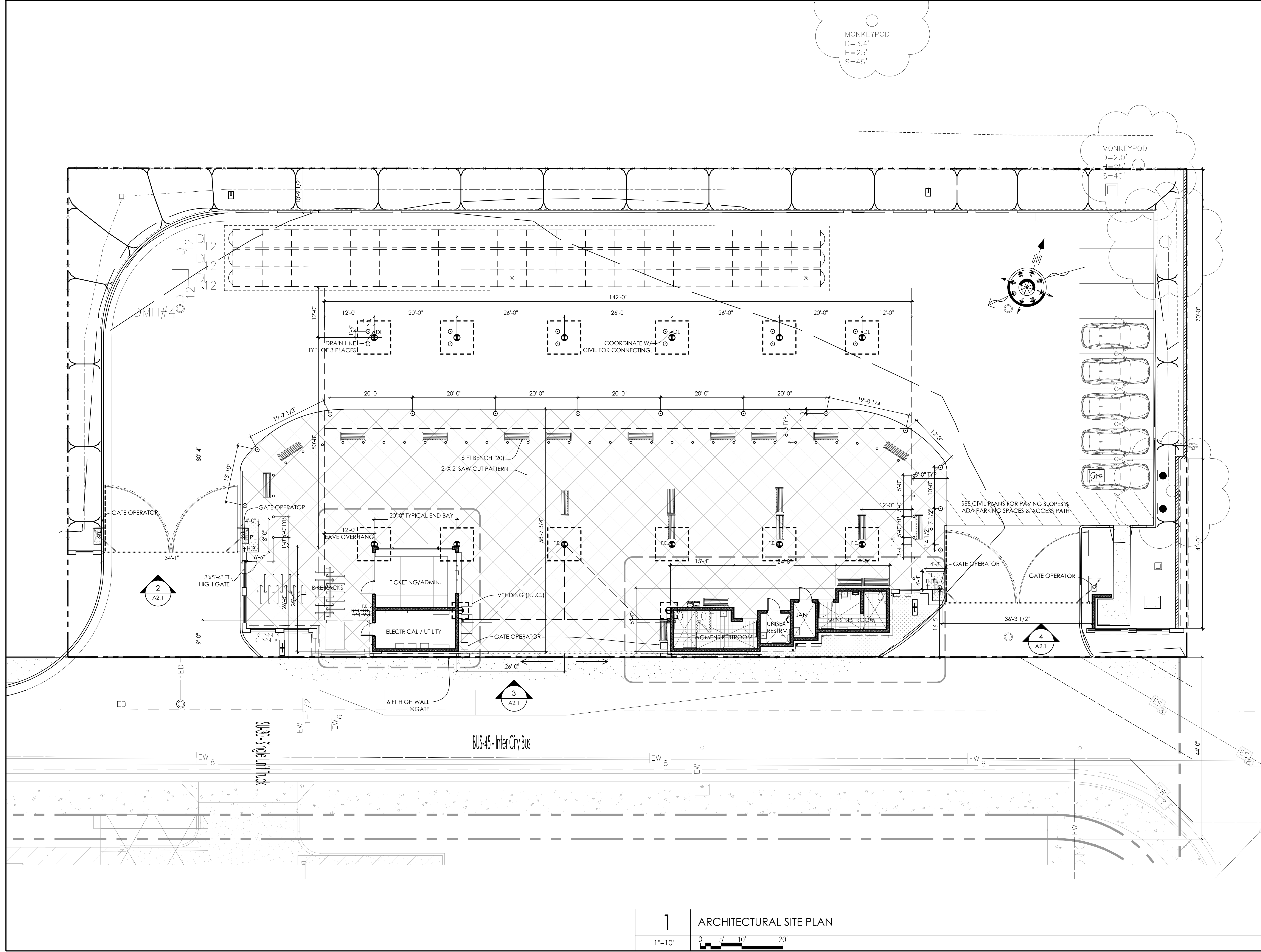
TACTILE EXIT SIGNAGE: C&C SECTION 1011.3 AND SECTION 11178.5.1

1. A TACTILE EXIT SIGN WITH WORDS 'EXIT', SHALL IDENTIFY EACH GRADE LEVEL EXTERIOR EXIT DOOR.
2. EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE LEVEL EXTERIOR EXIT BY MEANS OF STAIRWAY OR RAMP SHALL BE IDENTIFIED BY THE TACTILE SIGN WITH THE FOLLOWING APPROPRIATE WORDS: 'EXIT STAIR UP OR DOWN'
3. A TACTILE EXIT SIGN WITH THE WORDS 'EXIT ROUTE' SHALL IDENTIFY EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN.



2010 ADA STANDARDS FOR ACCESSIBLE DESIGN - ACCESSIBILITY CLEARANCES





1 ARCHITECTURAL SITE PLAN
 1"=10'
 0 5' 10' 20'

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A-1
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 DATE: MAY, 2018

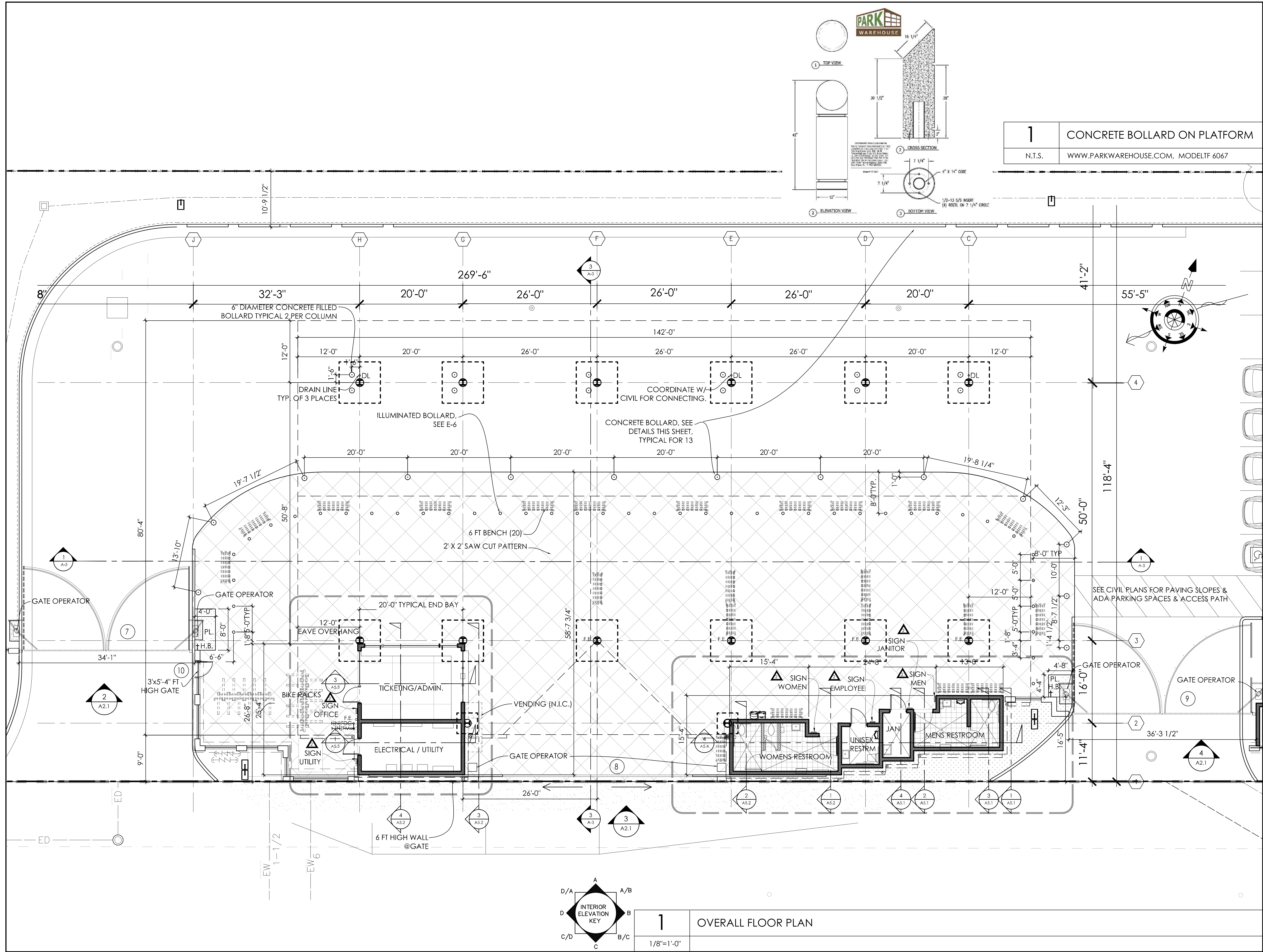
REVISIONS
 2020-01-23 DESIGN DEVELOPMENT PROGRESS PLANS
 2020-05-05 PERMIT SET
 2020-06-09 DCAB REVISIONS
 AUGUST 7, 2020 BID SET

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 ARCHITECTURAL SITE PLAN

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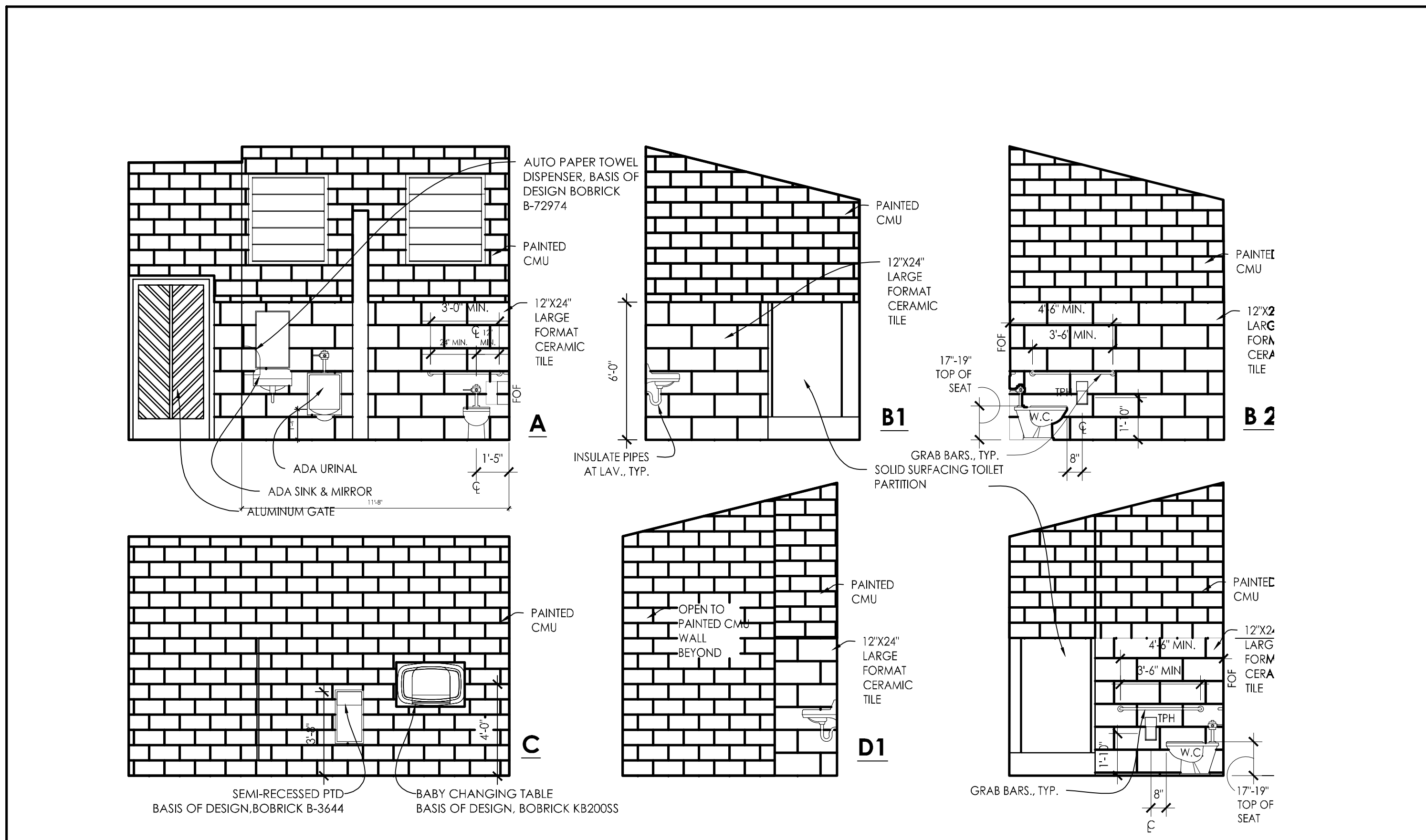
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FLOOR PLAN

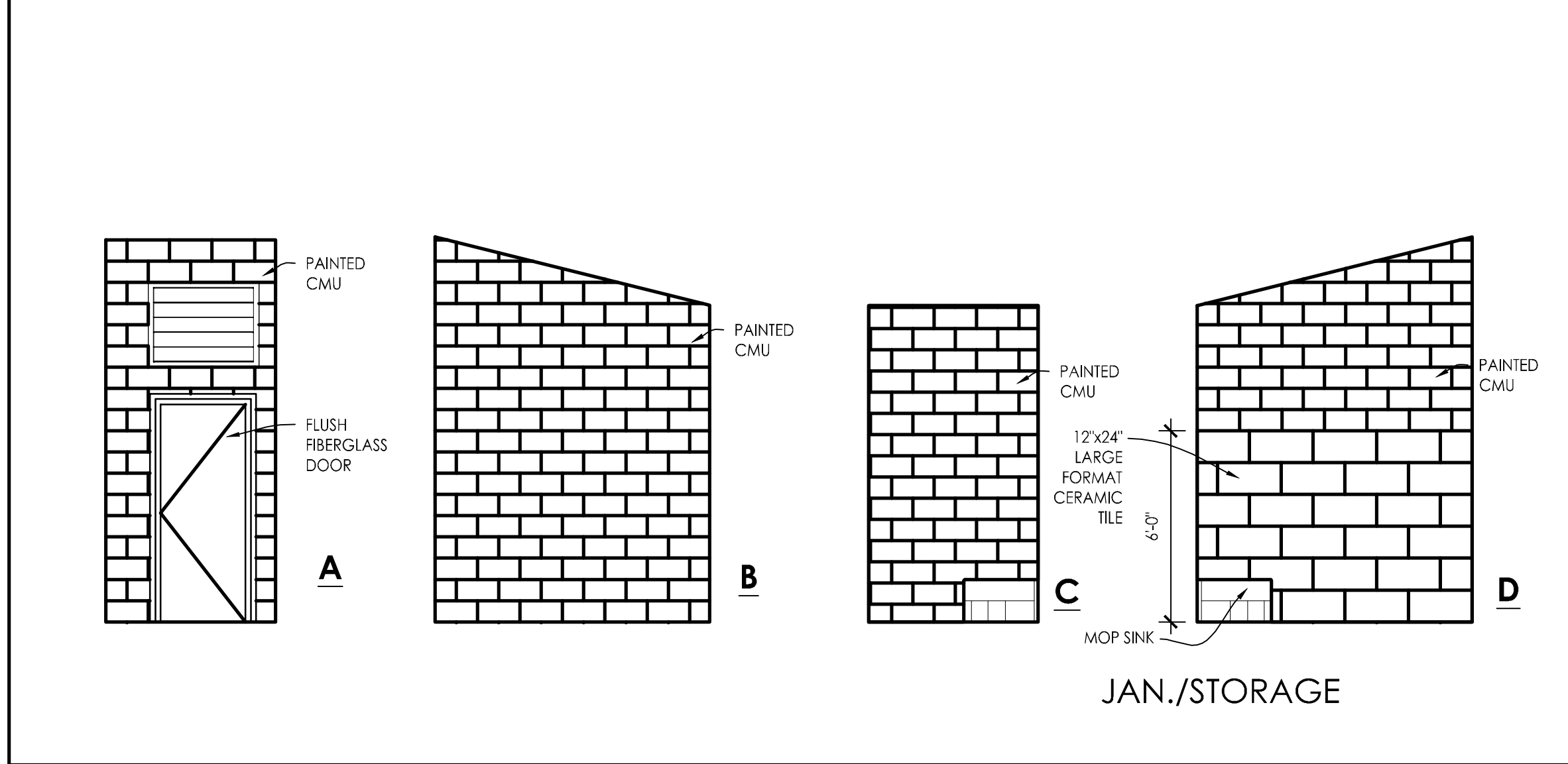
REVISIONS

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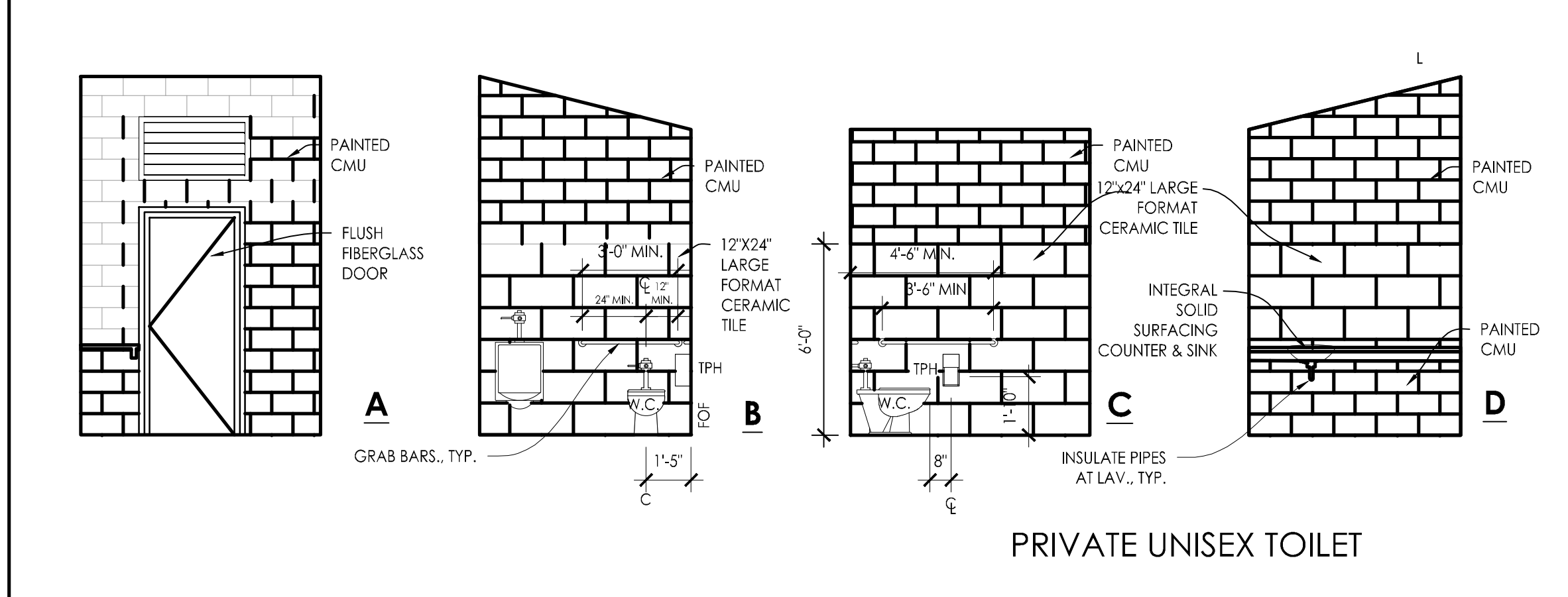
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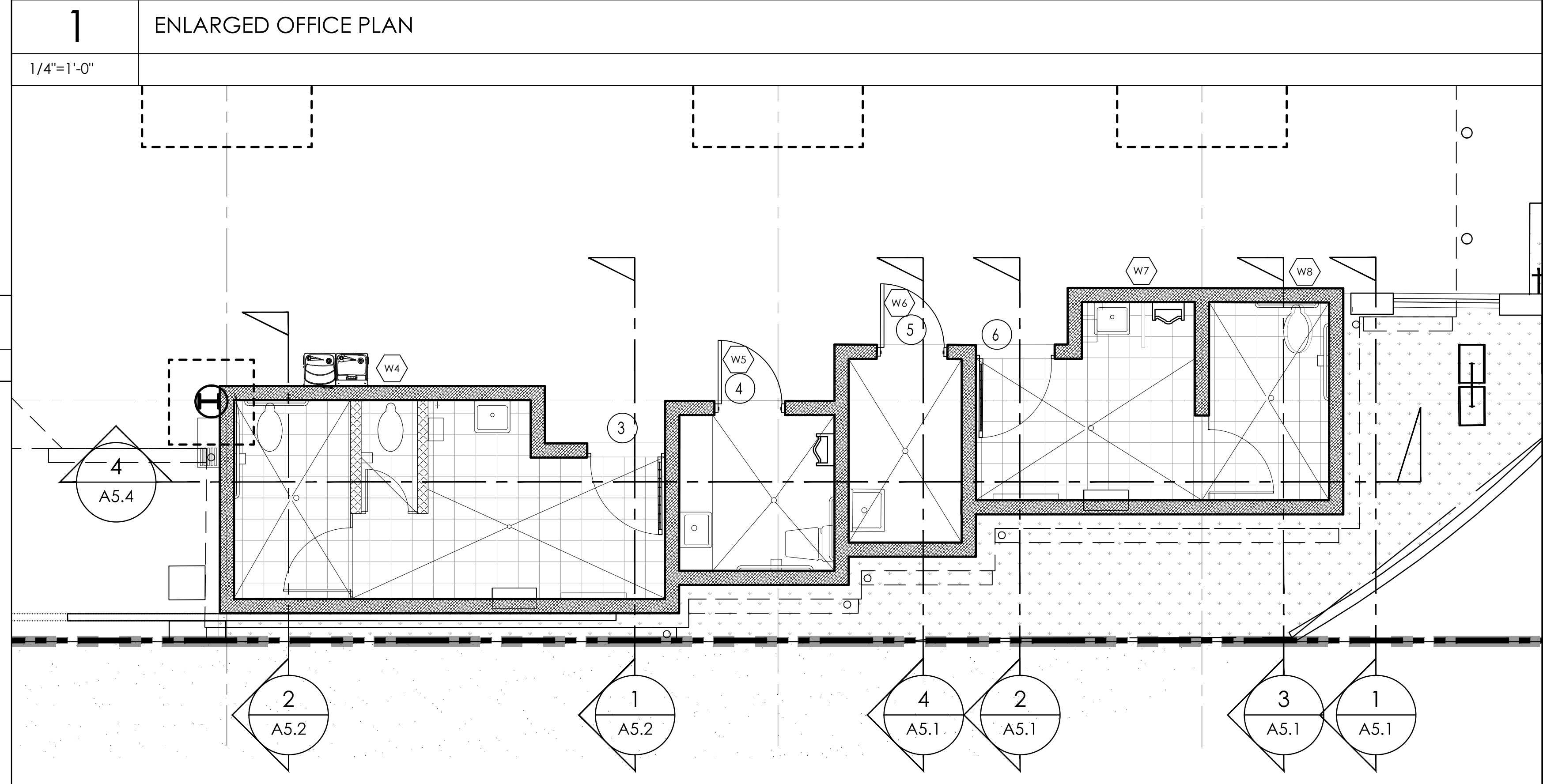
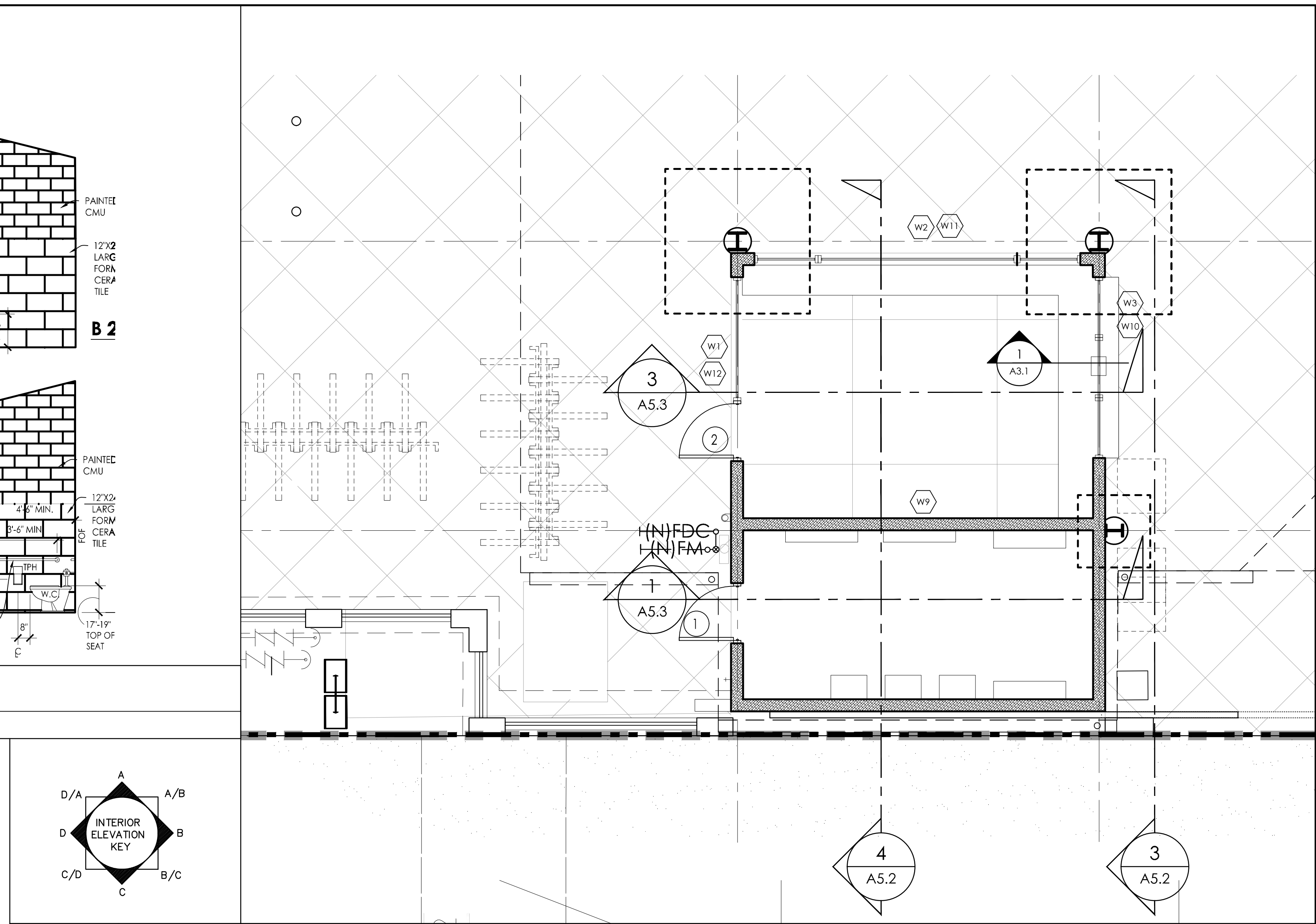
3 MEN'S TOILET INTERIOR ELEVATIONS
1/4"=1'-0"



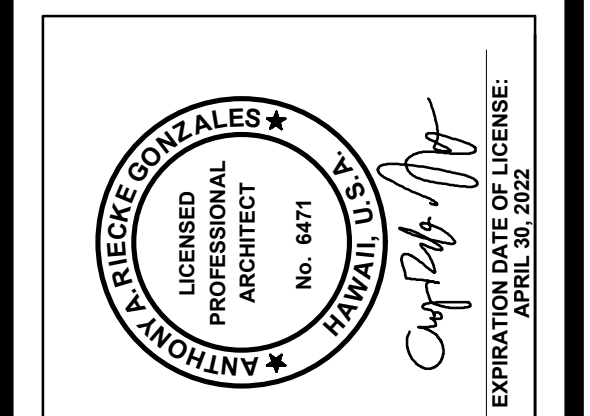
4 JAN/STORAGE INTERIOR ELEVATIONS
1/4"=1'-0"



5 PRIVATE UNISEX TOILET INTERIOR ELEVATIONS
1/4"=1'-0"



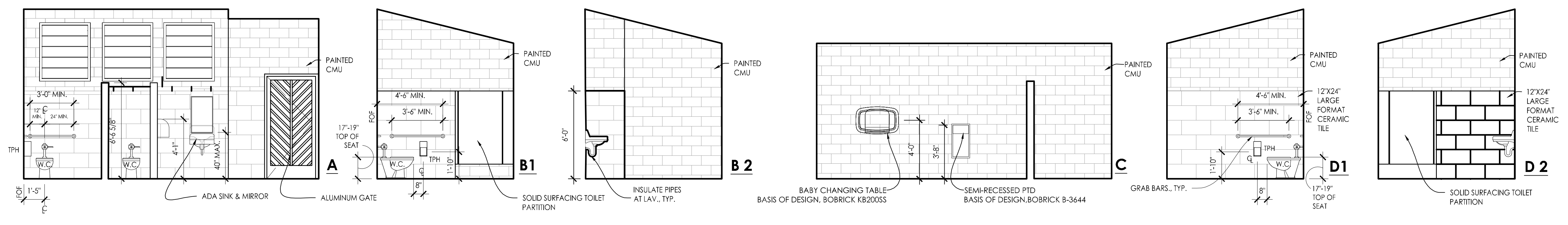
2 ENLARGED RESTROOM PLANS
1/4"=1'-0"



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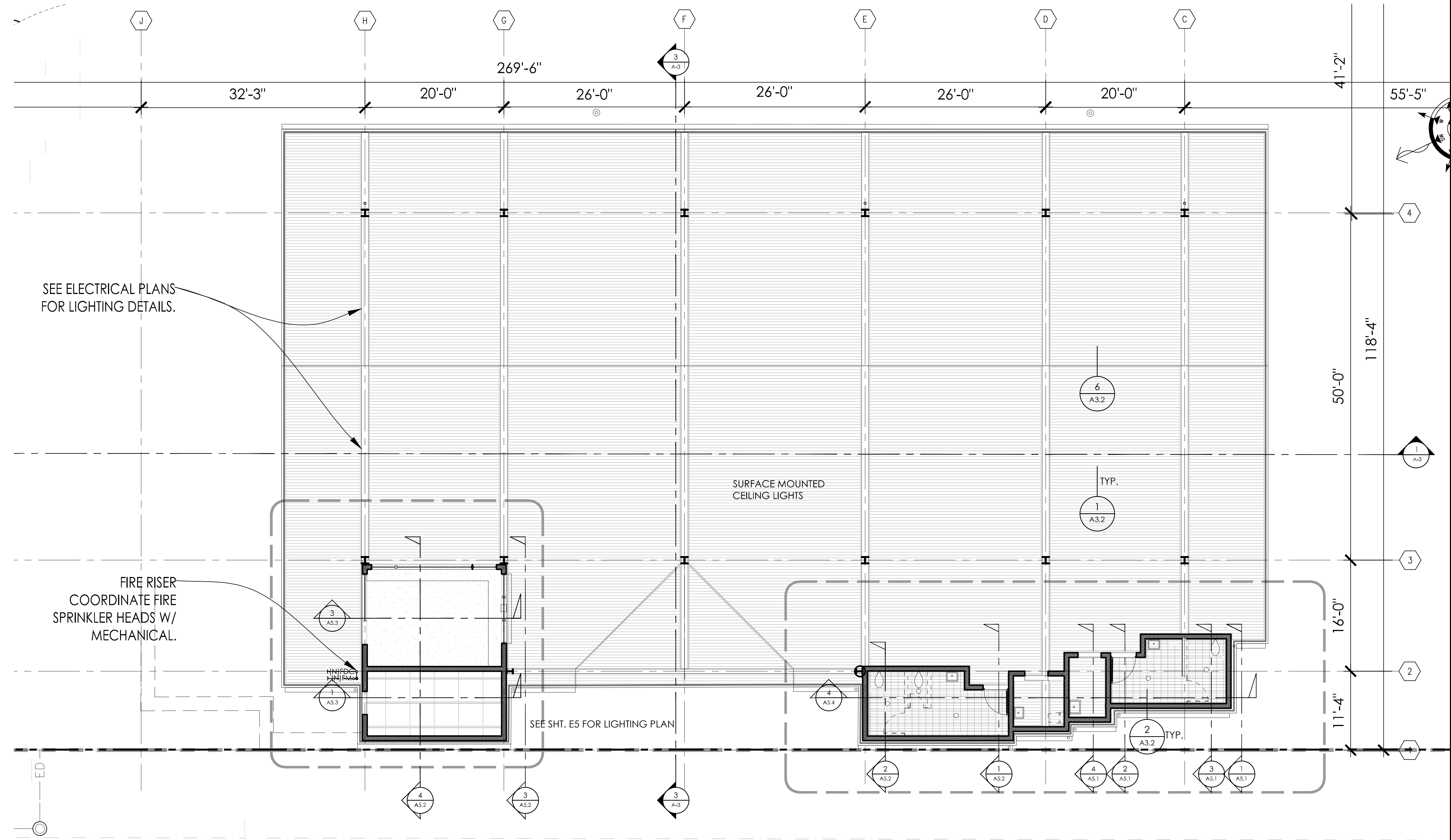
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ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

REVISIONS
 2020-01-23 DESIGN DEVELOPMENT PROGRESS PLANS
 2020-05-05 PERMIT SET
 2020-06-09 DCAB REVISIONS
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3 WOMEN'S TOILET INTERIOR ELEVATIONS

1/4"=1'-0"



1 REFLECTED CEILING PLAN
1/8"=1'-0"



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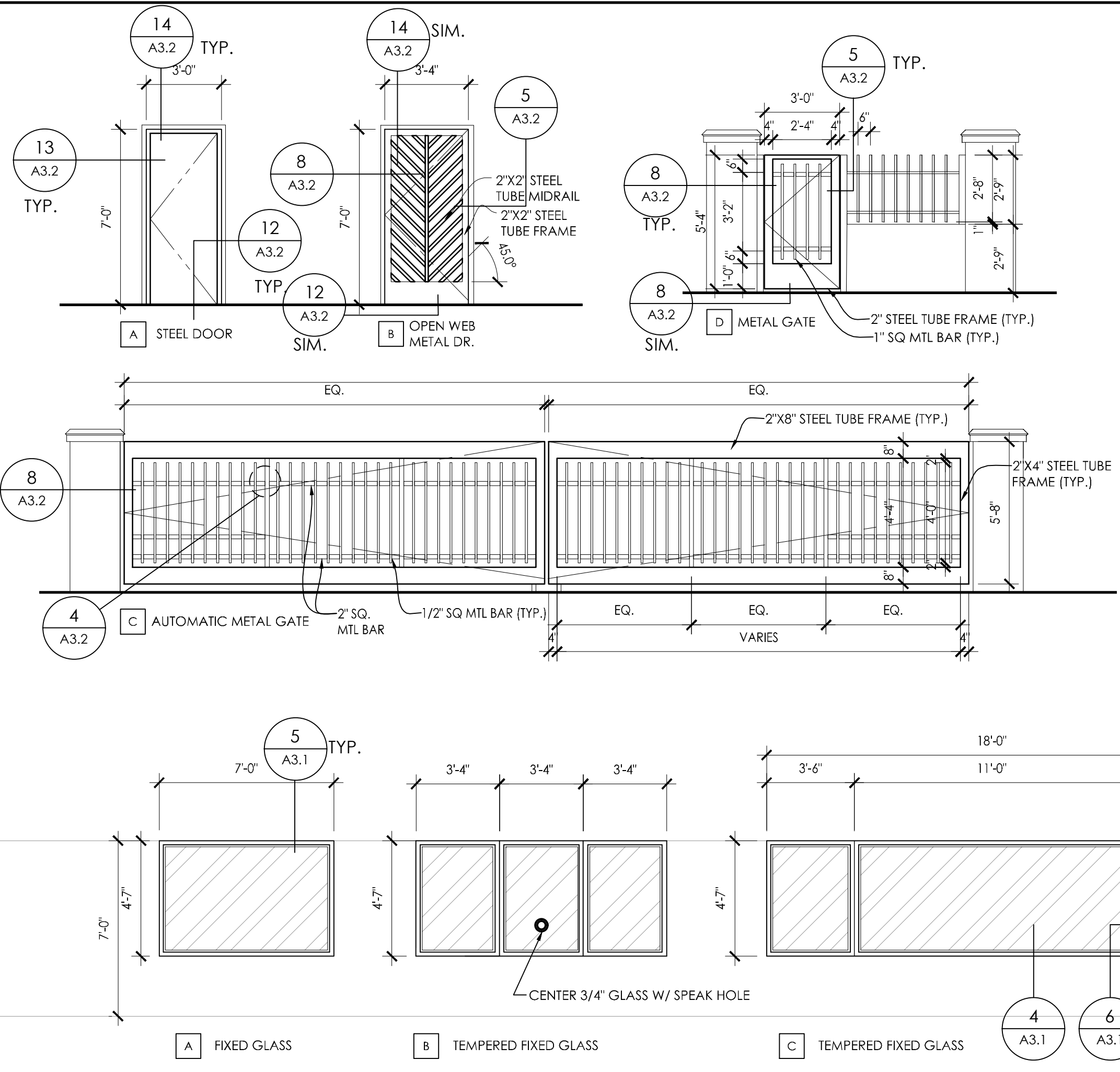
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2020-05-05 PERMIT SET
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SHEET OF
PROJECT NO. 2018-018
DATE: MAY, 2018



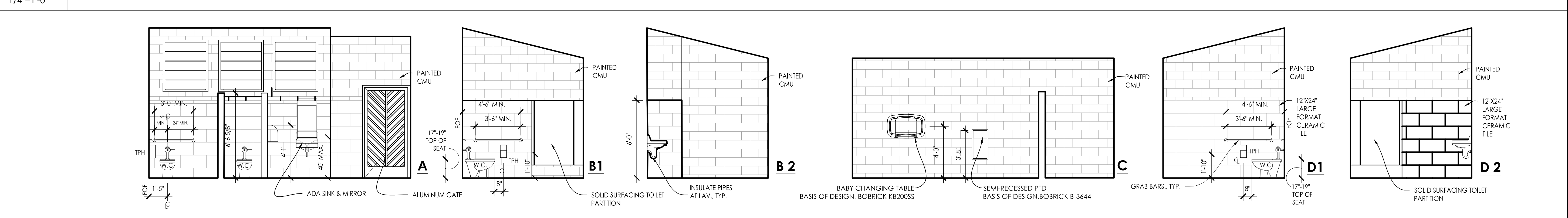
WINDOW SCHEDULE

WINDOW NUMBER	LOCATION	TYPE	WINDOW SIZE (W) x (H) GENERAL SIZE	MATERIAL	THICKNESS	FINISHES	LOUVER	GLASS	SCREEN	REMARKS
W1	TICKETING-ADMIN.	A	7'-0" X 4'-7"	MTL	-	FAC	FIXED			
W2	TICKETING-ADMIN.	B	3'-6" / 11'-0" / 3'-6" X 4'-7"	MTL	-	FAC	FIXED			
W3	TICKETING-ADMIN.	B	(3) 3'-4" X 4'-7"	MTL	-	FAC	FIXED	3/4"		CENTER GLASS W/ SPEAKER
W4	WOMEN'S RESTROOM	D	(3) 2'-0" X 4'-6"	MTL	-	FAC	FIXED			
W5	UNISEX RESTROOM	F	3'-6" X 2'-0"	MTL	-	FAC	FIXED			
W6	JANITOR	E	3'-6" X 2'-8"	MTL	-	FAC	FIXED			
W7	MEN'S RESTROOM	D	3'-6" X 4'-0"	MTL	-	FAC	FIXED			
W8	MEN'S RESTROOM	D	3'-6" X 4'-0"	MTL	-	FAC	FIXED			
W9	TICKETING - ADMIN ATIC	G	(2) 3'-0" X 4'-0"	MTL		FAC	FIXED		✓	
W10	TICKETING - ADMIN ATIC	G	(2) 3'-0" X 4'-0"	MTL		FAC	FIXED		✓	
W11	TICKETING - ADMIN ATIC	G	3'-6" / 11'-0" / 3'-6" X 4'-0"	MTL		FAC	FIXED		✓	
W12	TICKETING - ELECTRICAL RM	G	(2) 3'-0" X 4'-0"	MTL		FAC	FIXED		✓	

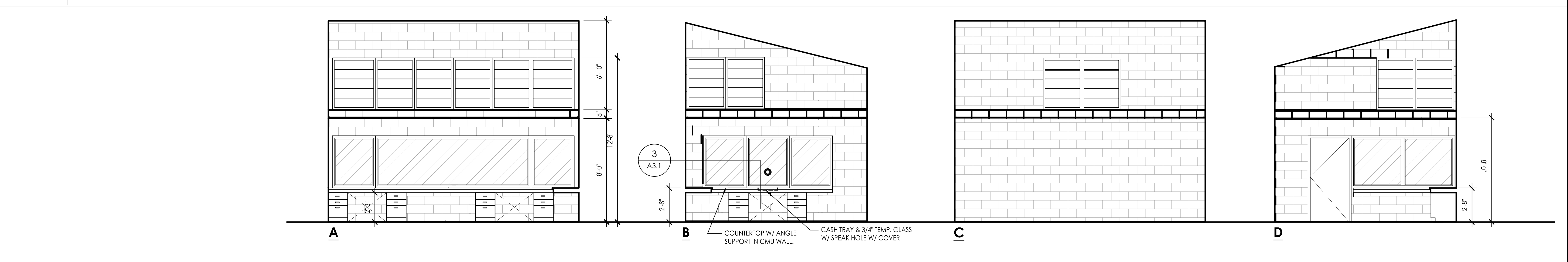
DOOR SCHEDULE

DOOR NUMBER	LOCATION	TYPE	DOOR SIZE (W) x (H)	MATERIAL	THICKNESS	FINISHES	GLASS/ LOUVER	FRAME	REMARKS
1	ELECTRICAL/UTILITY RM	A	3'-0" X 6'-8"	MET	1-3/4"	FAC	-	STL	
2	ADMIN/TICKETING	A	3'-0" X 6'-8"	MET	1-3/4"	FAC	-	STL	
3	WOMEN'S RESTROOM	B	3'-4" X 7'-0"	MET	-	FAC	-	STL	
4	UNISEX RESTROOM	A	3'-0" X 7'-0"	MET	-	FAC	-	STL	
5	JANITOR ROOM	A	3'-0" X 7'-0"	MET	-	FAC	-	STL	
6	MEN'S RESTROOM	B	3'-4" X 7'-0"	MET	-	FAC	-	STL	
7	EAST BUS ENTRY GATE	C	32' - 4" X 5'-8"	MET		PT	-	STL	AUTOMATIC SWING
8	PEDESTRIAN ENTRY GATE	C	46' - 3" X 5'-8"	MET		PT	-	STL	(SIM.) AUTOMATIC SLIDING
9	WEST BUS ENTRY GATE	C	35' - 0" X 5'-8"	MET		PT	-	STL	AUTOMATIC SWING
10	EAST PEDESTRIAN GATE	D	3'-0" X 5'-4"	MET		PT	-	STL	

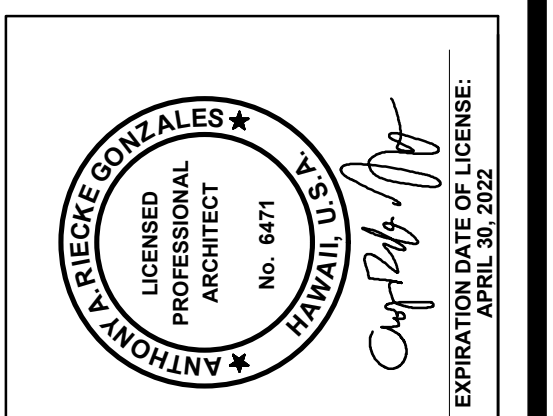
3 WINDOW & DOOR TYPES AND SCHEDULES
1/4"=1'-0"



2 WOMEN'S TOILET INTERIOR ELEVATIONS
1/4"=1'-0"

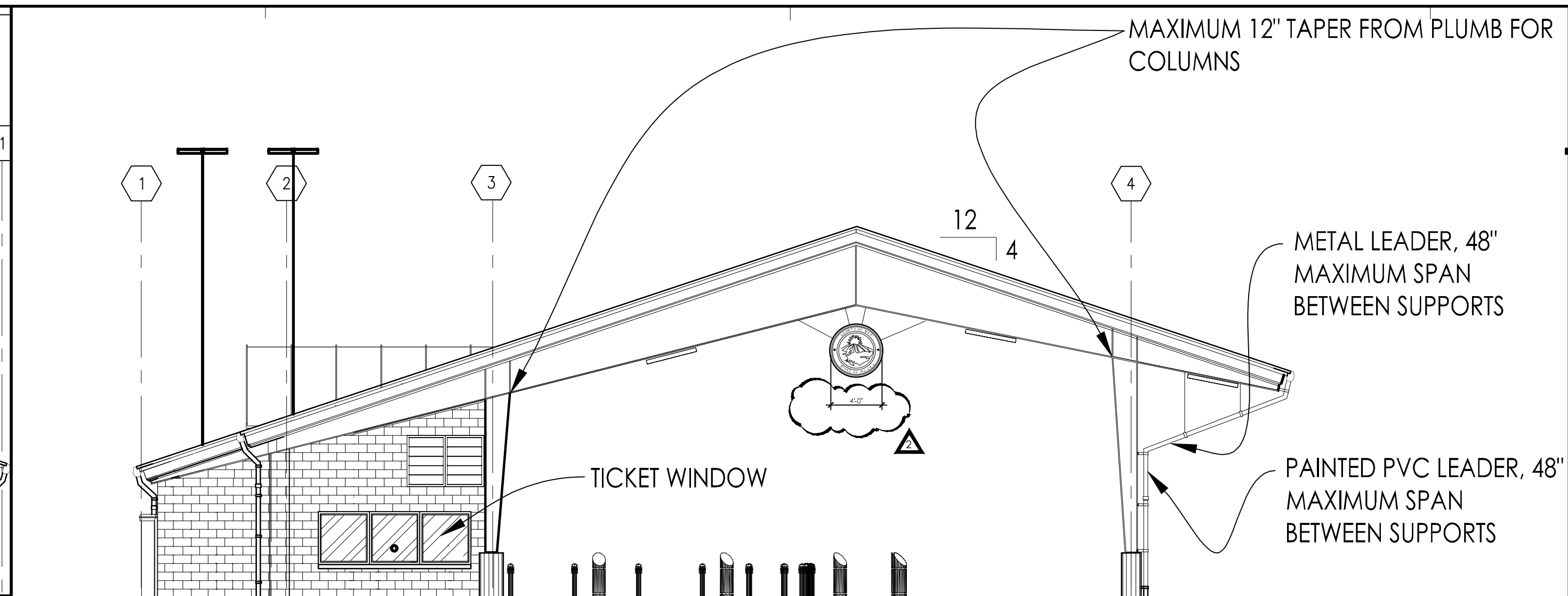
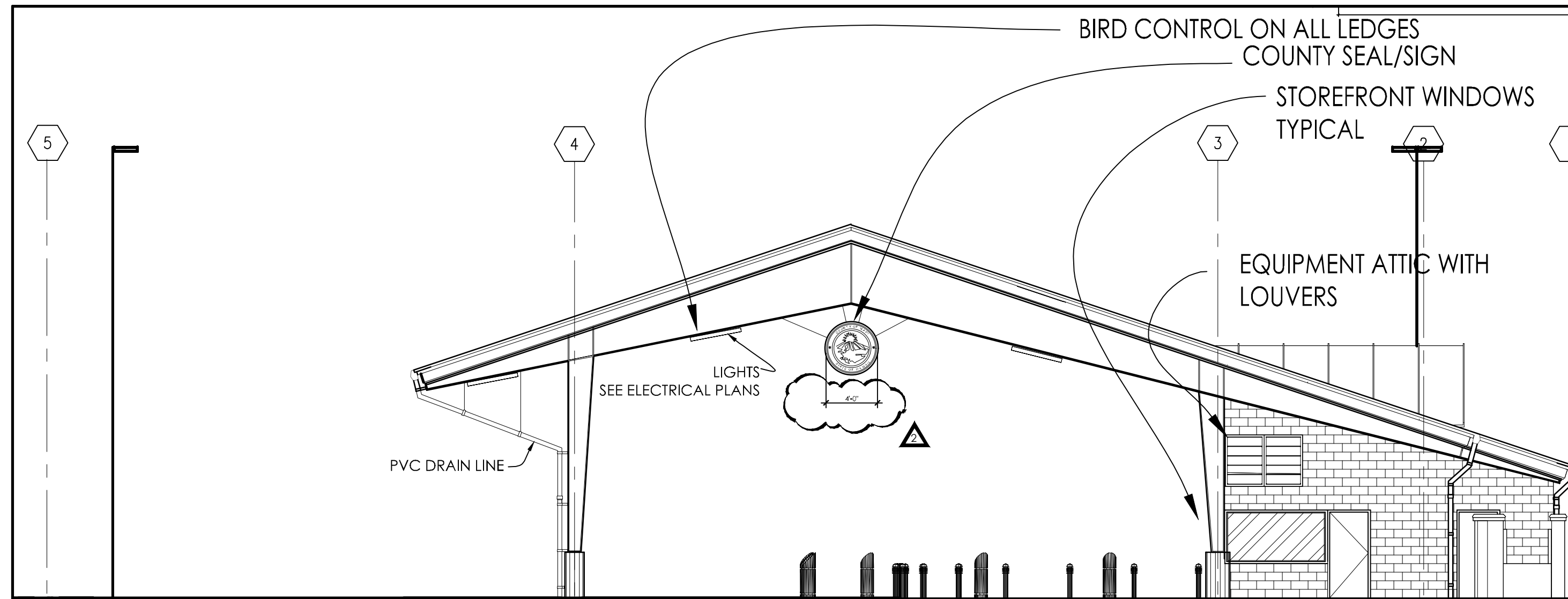


1 INTERIOR ELEVATIONS - TICKETING / ADMINISTRATION
1/4"=1'-0"

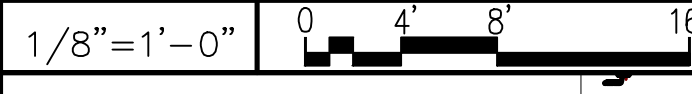


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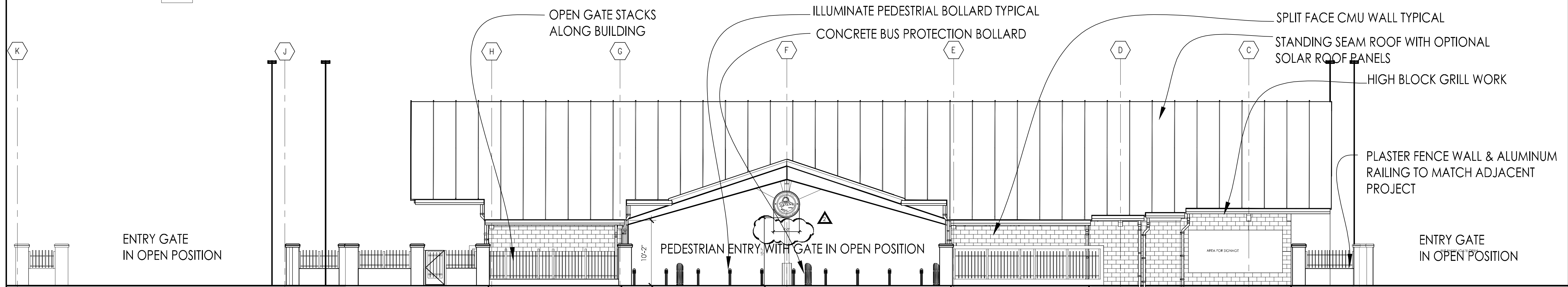
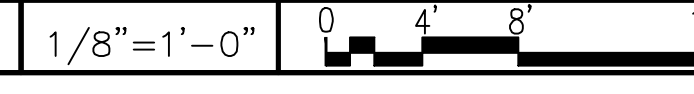
REVISIONS
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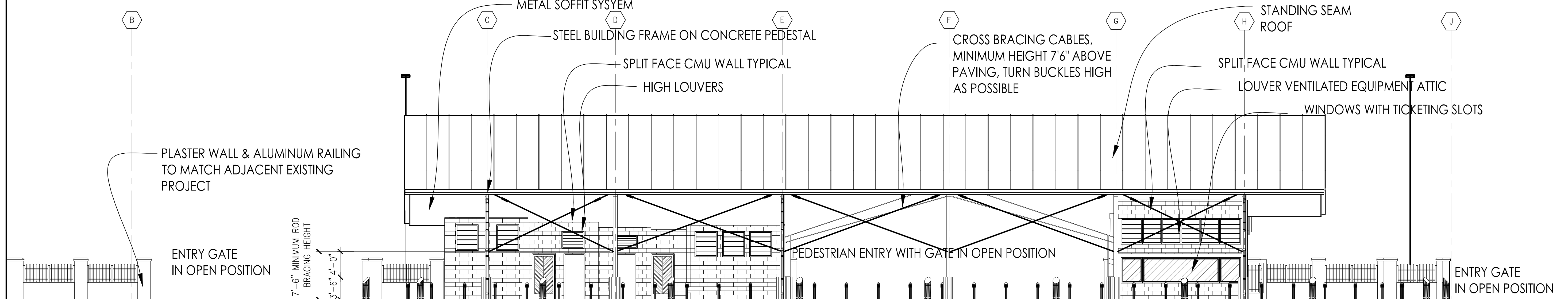
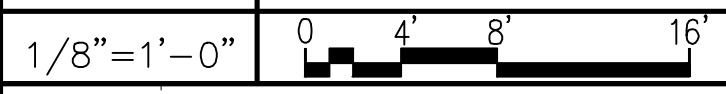
2 WEST ELEVATION



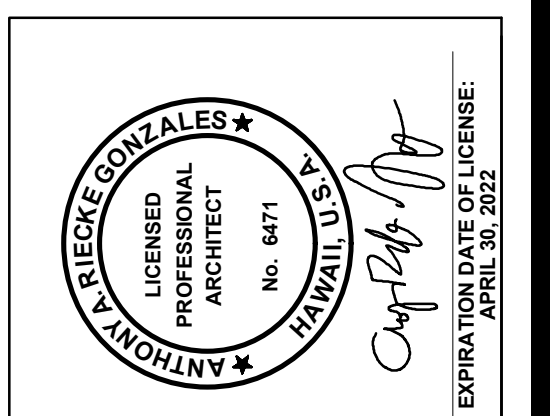
1 EAST ELEVATION



3 SOUTH ELEVATION



4 NORTH ELEVATION



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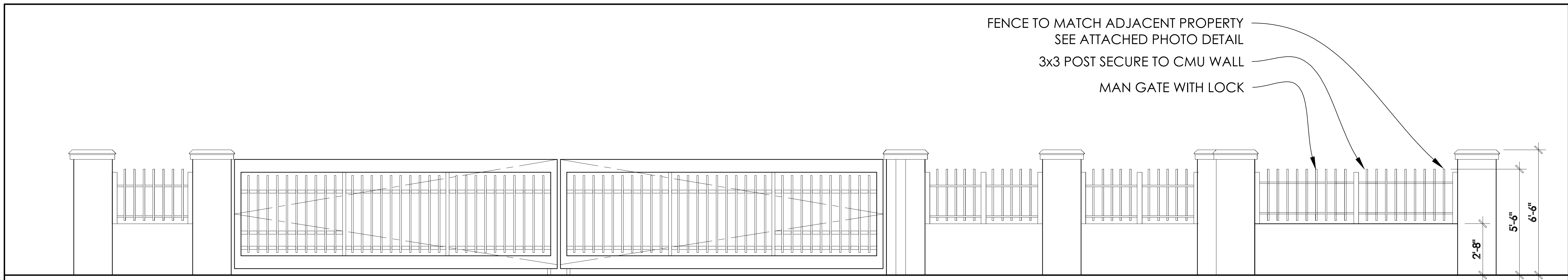
EXTERIOR ELEVATIONS

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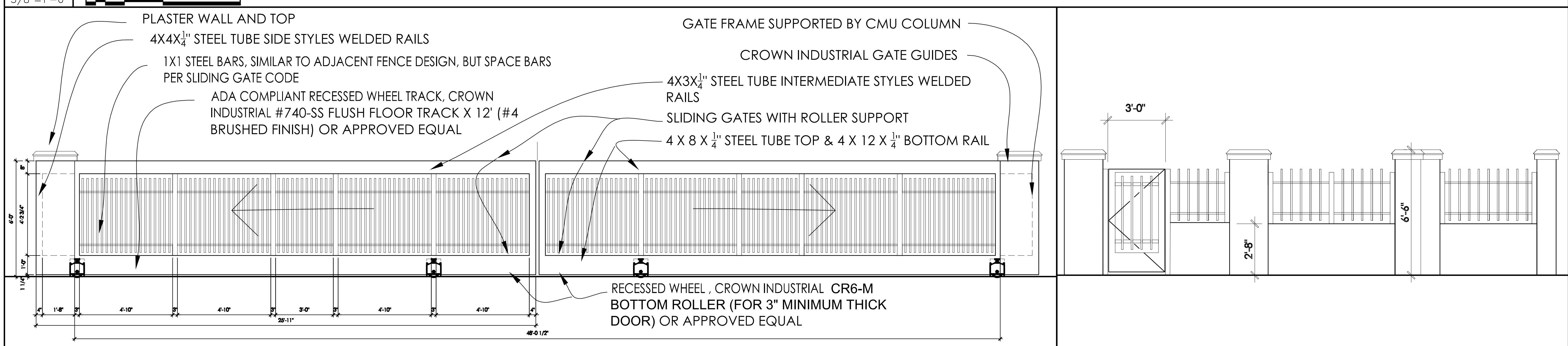
AUGUST 7, 2020 BID SET
 ADDENDUM #1, 2020-09-22

A-2

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 PROJECT NO. 2018-018
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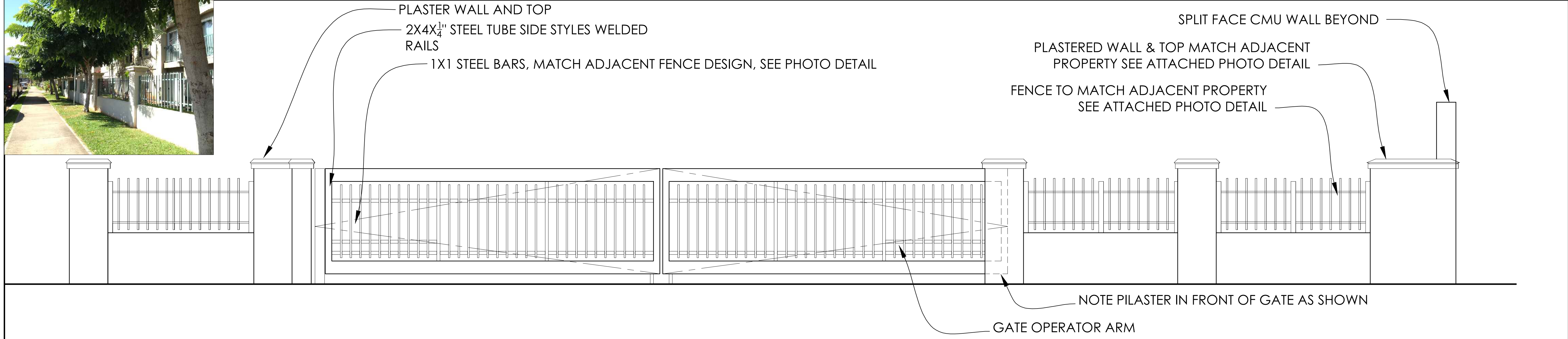


2 SOUTH/WEST WALL & GATE ELEVATION
 3/8"=1'-0" 0 2' 4' 8'

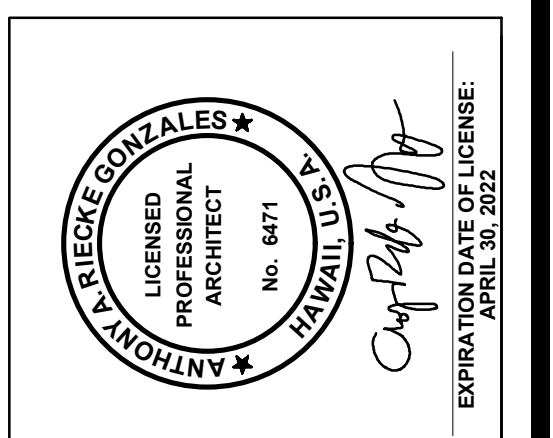


3 SOUTH ENTRY GATE ELEVATION
 3/8"=1'-0" 0 2' 4' 8'

1 WEST WALL & GATE ELEVATION
 3/8"=1'-0" 0 2' 4' 8'



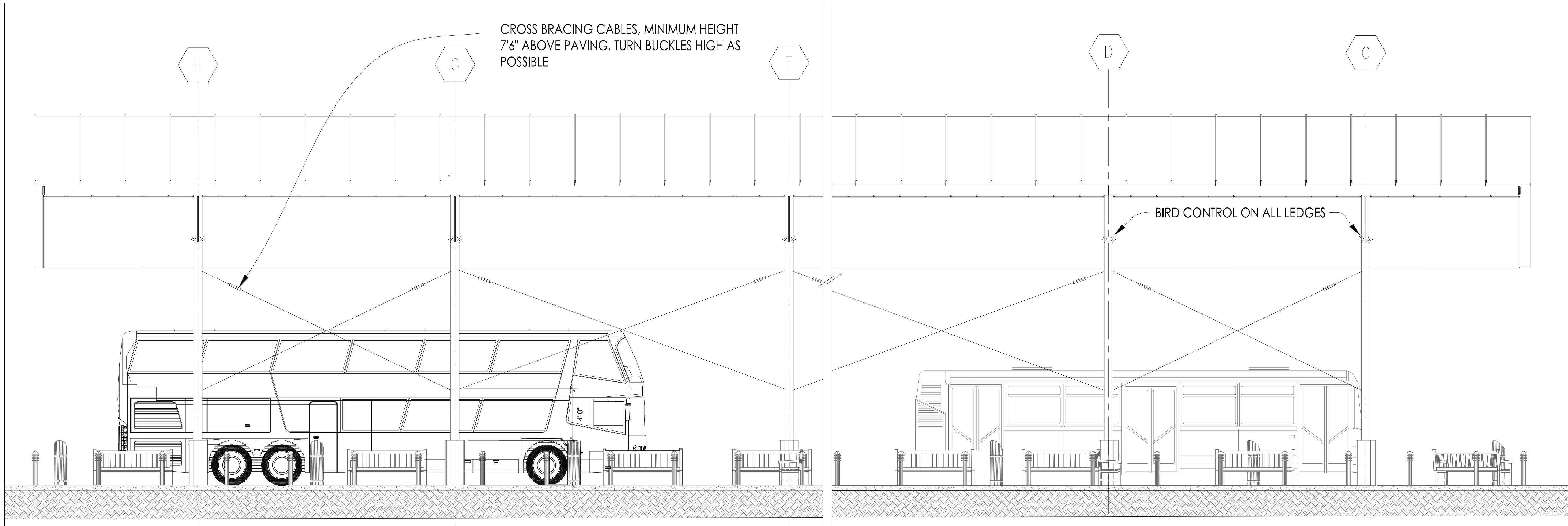
4 SOUTH/EAST WALL & GATE ELEVATION & EXAMPLE FENCE PHOTO
 3/8"=1'-0" 0 2' 4' 8'



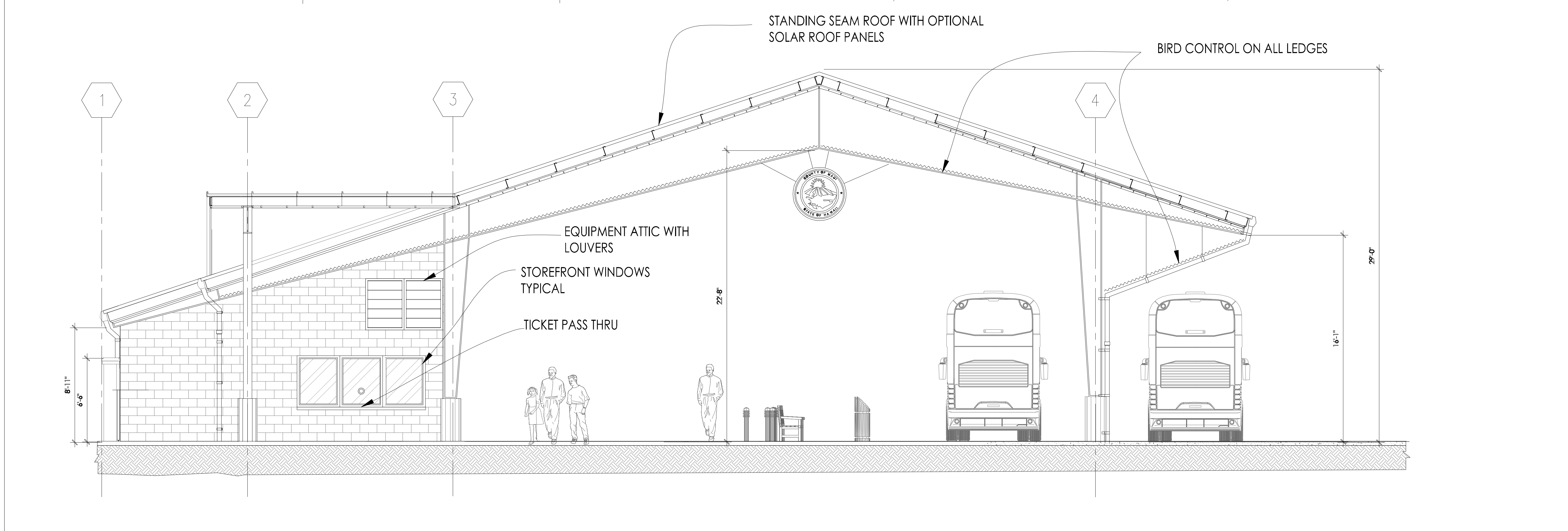
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 MISC. EXTERIOR ELEVATIONS & WALL ELEVATIONS

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1 SECTION
1/4" = 1'-0"



3 SECTION
1/4" = 1'-0"

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A-3
SHEET OF
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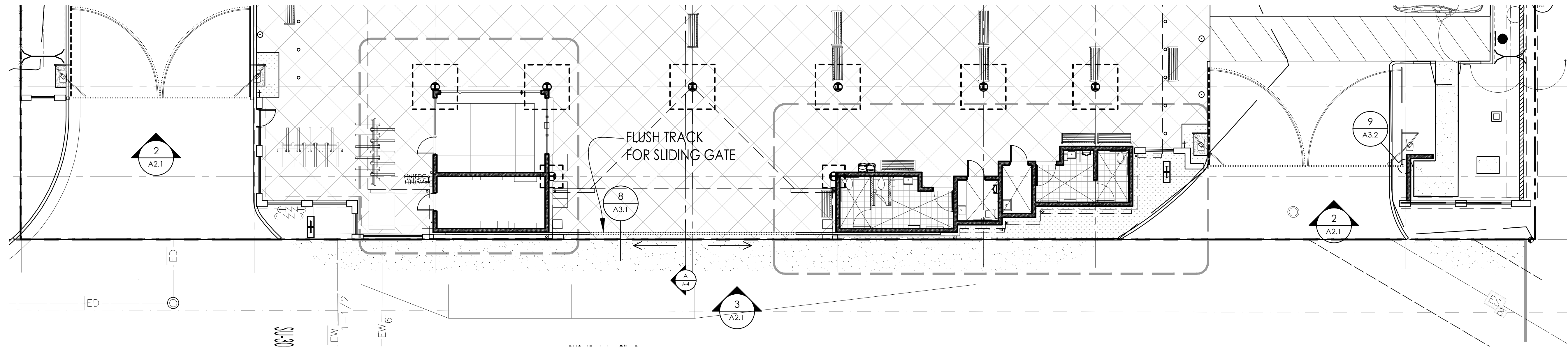
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BUILDING SECTIONS

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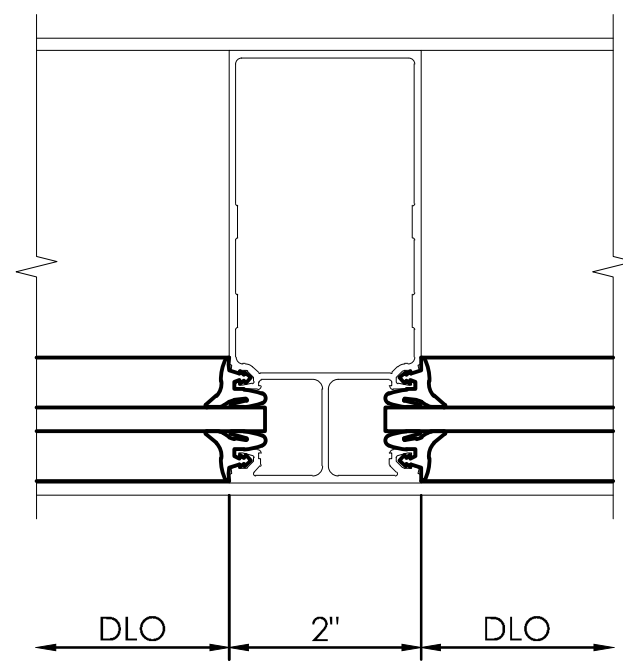
ANTHONY A. RIECKE GONZALES
LICENSED PROFESSIONAL ARCHITECT
No. 6471
HAWAII, U.S.A.
Signature: Anthony A. Riecke
EXPIRATION DATE OF LICENSE: APRIL 30, 2022

RIECKE SUNNLAND KONO
ARCHITECTS LTD.
33 LONG AVENUE STE 200
KAHULUI, MAUI, HAWAII 96731-627
FO BOX 1627
KAHULUI, MAUI, HAWAII 96731-627
TELEPHONE (808) 877-6688



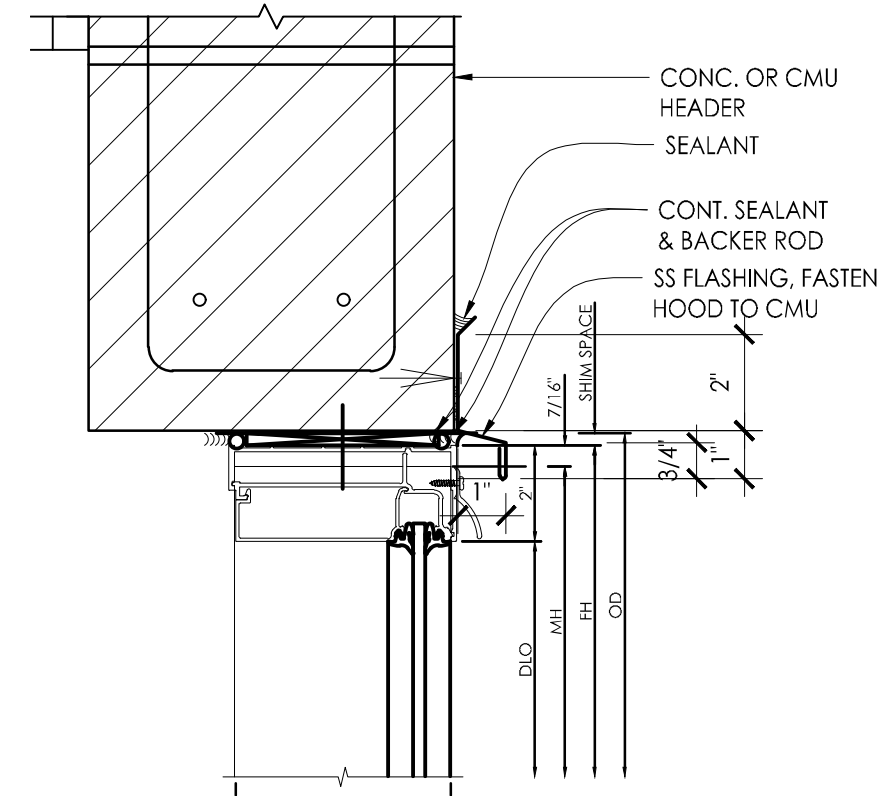
7 FENCE & GATE DIMENSION

1"=10'



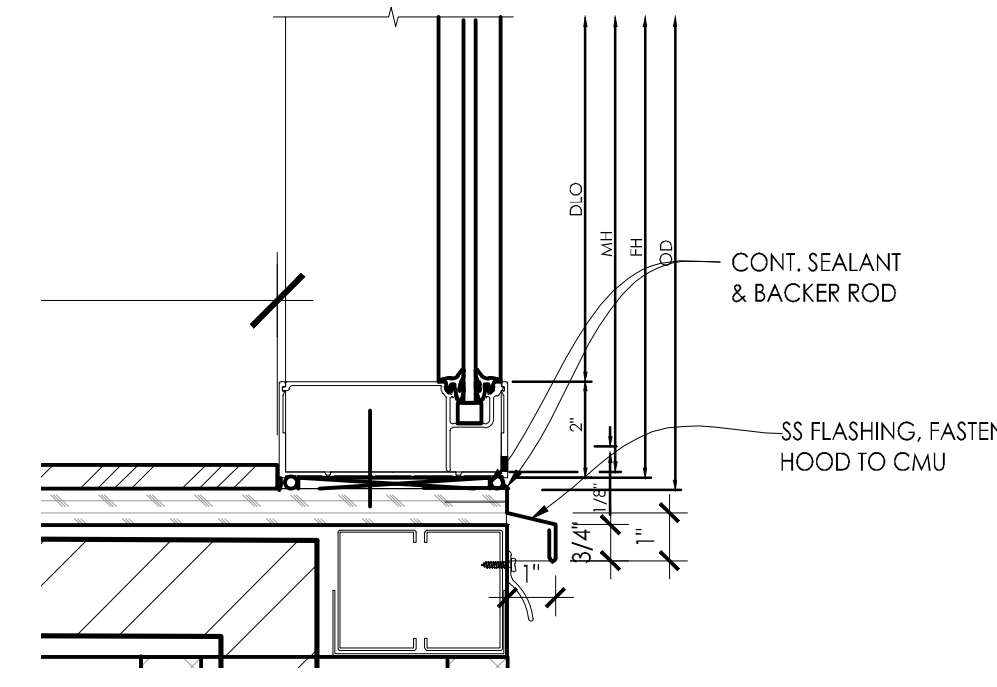
6 TRI FAB CENTER MULLION

3"=1'-0"



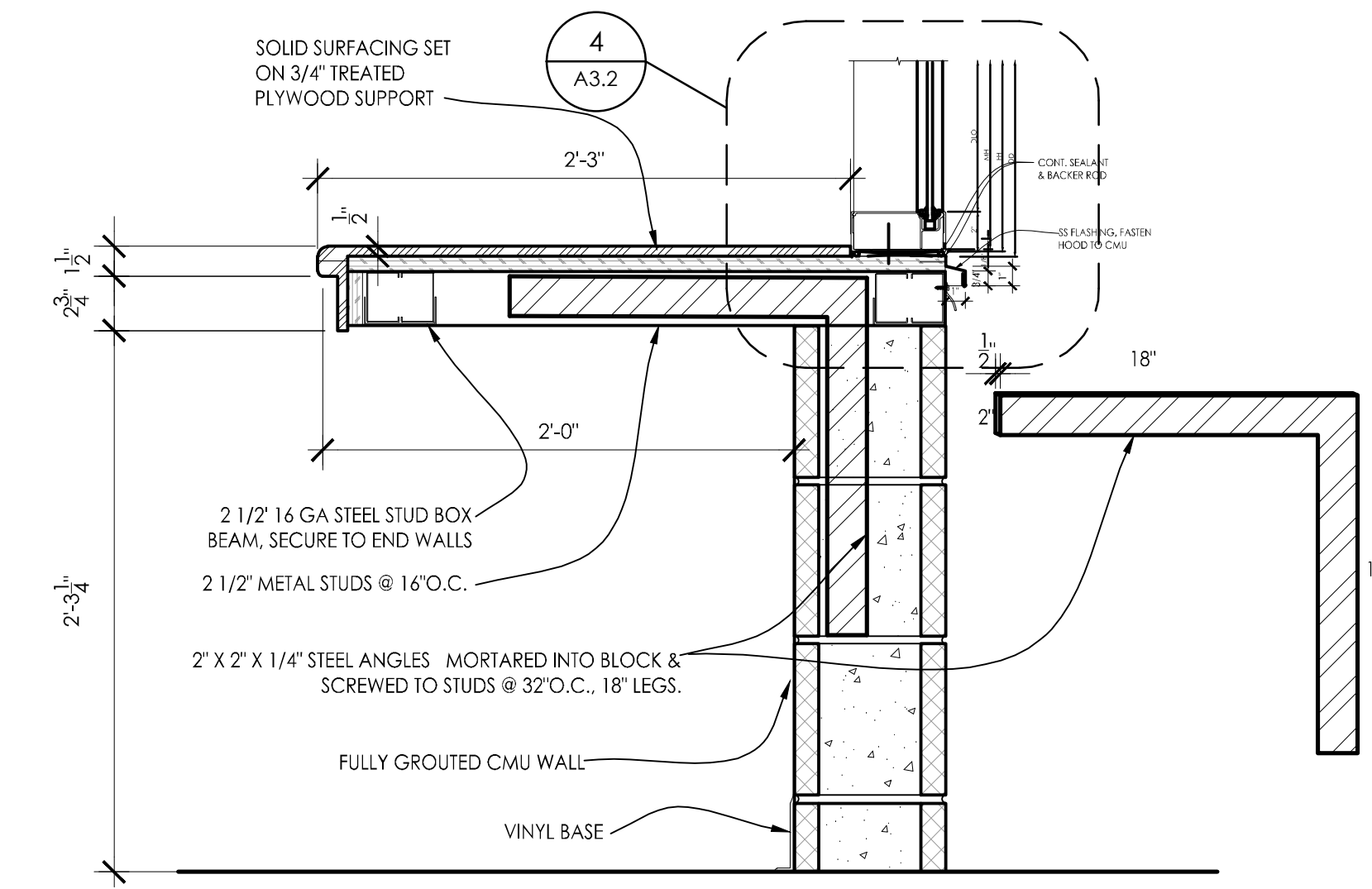
5 WINDOW HDR. DTL.

3"=1'-0"



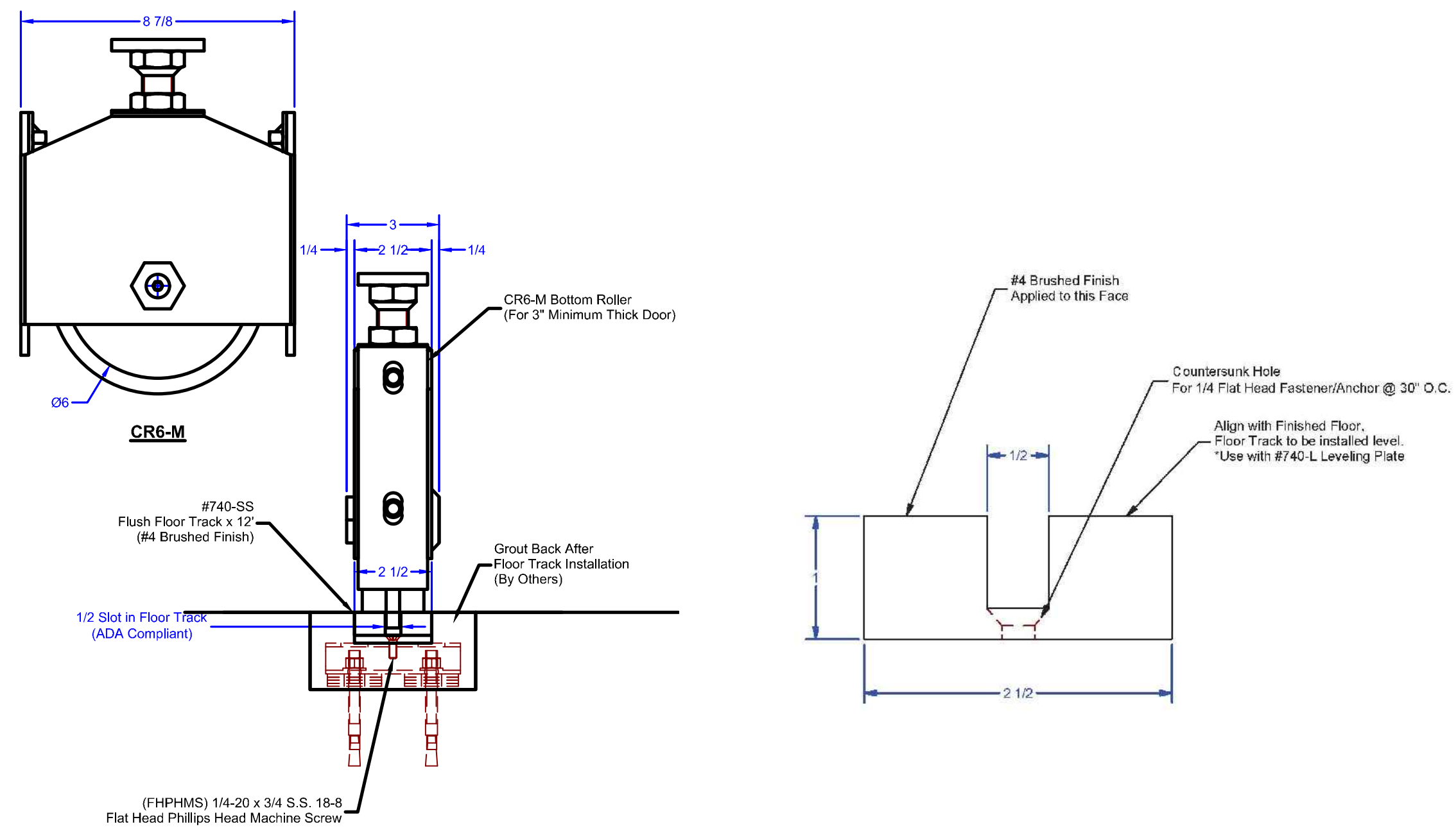
4 COUNTER WINDOW DETAIL

3"=1'-0"



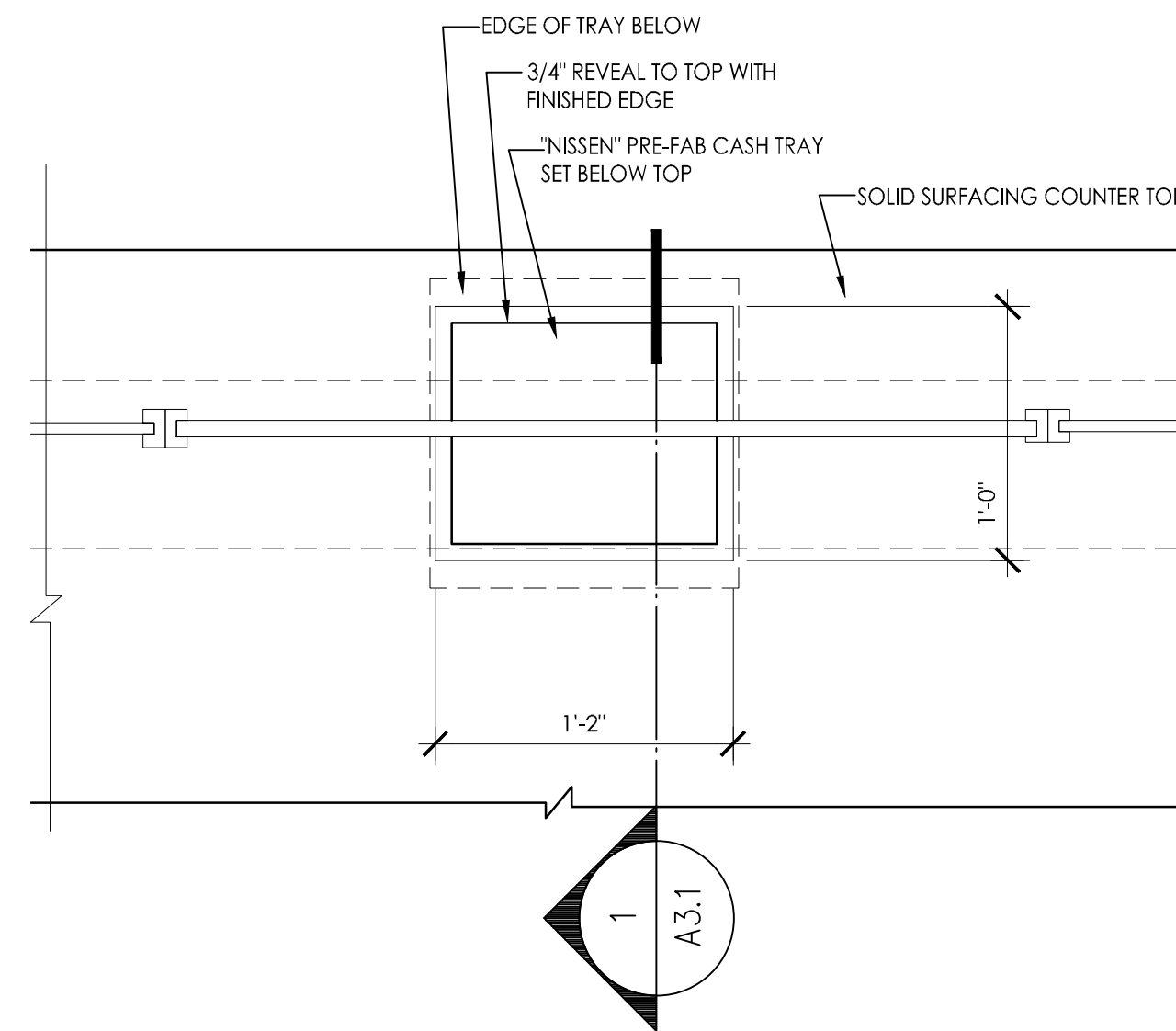
2 TICKET COUNTER W/ CASH TRAY PLAN & SECTION

1 1/2"=1'-0"



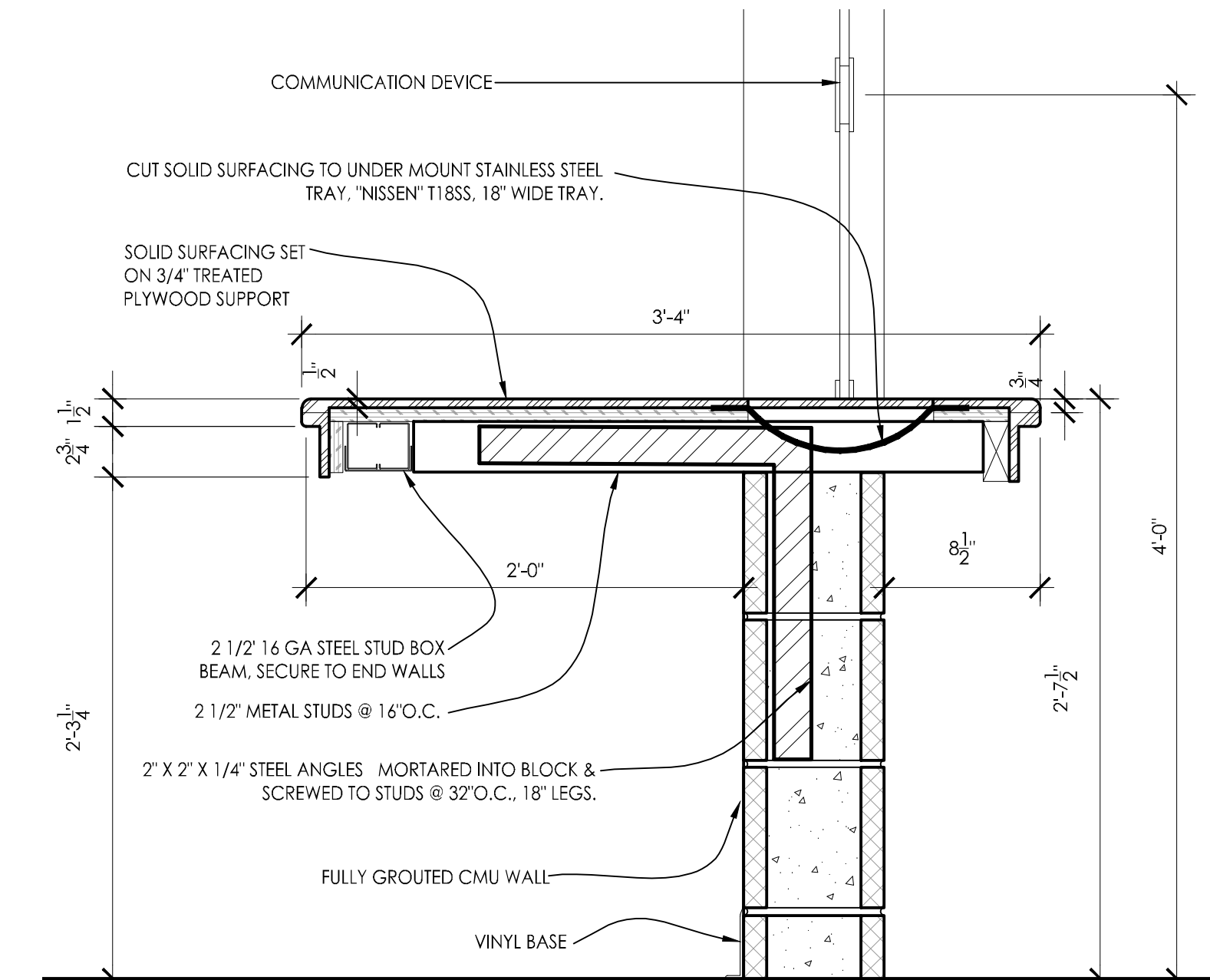
8 SLIDING GATE W/ FLUSH TRACK & WHEEL DETAILS (ADA COMPLIANT)

N.S.



3 TICKET COUNTER W/ CASH TRAY PLAN

1 1/2"=1'-0"



1 TICKET COUNTER W/ CASH TRAY PLAN & SECTION

1 1/2"=1'-0"



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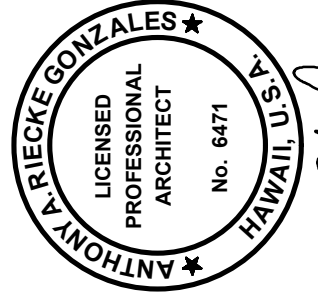
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FENCE & GATE LAYOUTS

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A3.1

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MISCELLANEOUS DETAILS.

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2020-05-05 PERMIT SET
AUGUST 7, 2020 BID SET

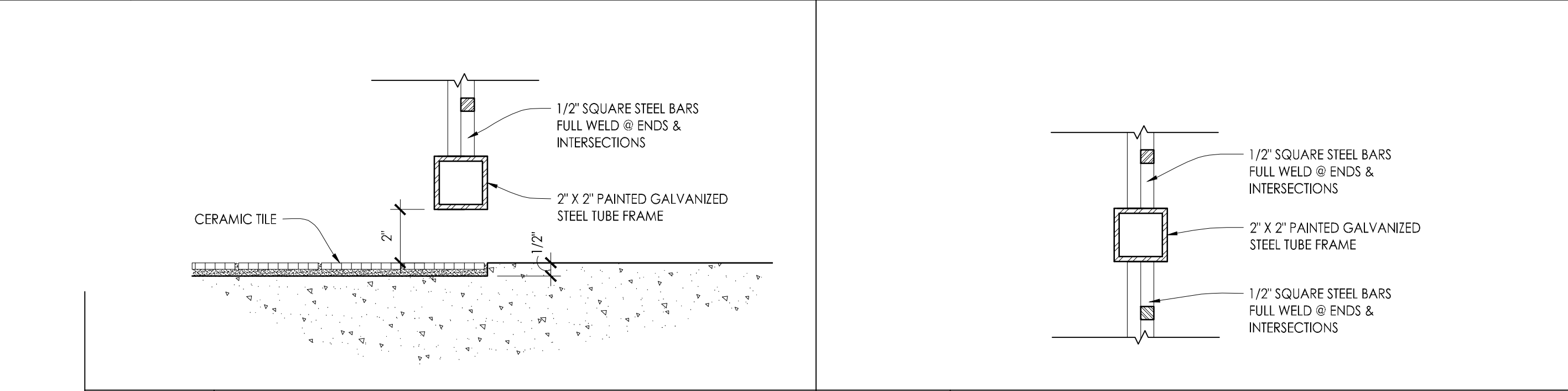
A-3.2

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PROJECT NO. 2018-018
DATE: MAY, 2018

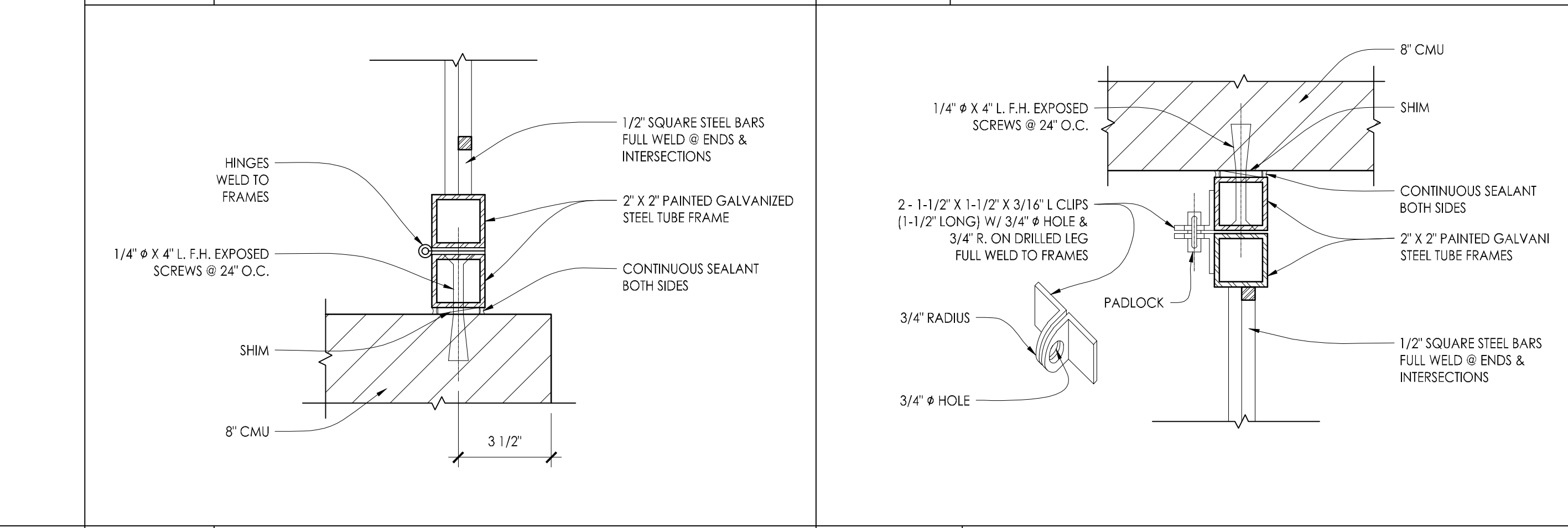
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FINISH SCHEDULE							
KEY	ROOM NAME	MATERIAL DESCRIPTION	MANUFACTURER	STYLE/SIZE	COLOR	HEIGHT	COMMENTS
B-1	ADMIN./TICKETING	RUBBER BASE	JOHNSONITE	TRADITIONAL COVE BASE	-	6"	
B-2	MENS, WOMEN, & UNISEX RESTROOM	PERIMETER TILE BASE	JOHNSONITE	RUBBER COVE	-	4"	1/8" THK. MATERIAL
GR-1	MENS, WOMEN, & UNISEX RESTROOM	RESTROOM GROUT	MAPEI	1/16" W. GROUT	-		
P-1	ADMIN./TICKETING	FIELD COLOR	SHERWIN WILLIAMS	FINISH - EGG SHELL	-		DOORS & JAMBS IN SEMI-GLOSS
P-2	ALL RESTROOMS	PAINT ABOVE TILE	SHERWIN WILLIAMS	FINISH - EGG SHELL	-		
T-1	ALL RESTROOMS	PORCELAIN FIELD FLOORING	SHAW	STRUCTURE 12 X 24	-	GROUT 1/16" W.	
T-2	ALL RESTROOMS	PORCELAIN WAINSCOT TILE	SHAW	STRUCTURE 12 X 24	-	GROUT 1/16" W.	
SS-1	ADMIN./TICKETING	SOLID SURFACING COUNTERTOP	MANNINGTON	SPACIA / 18X36	-		

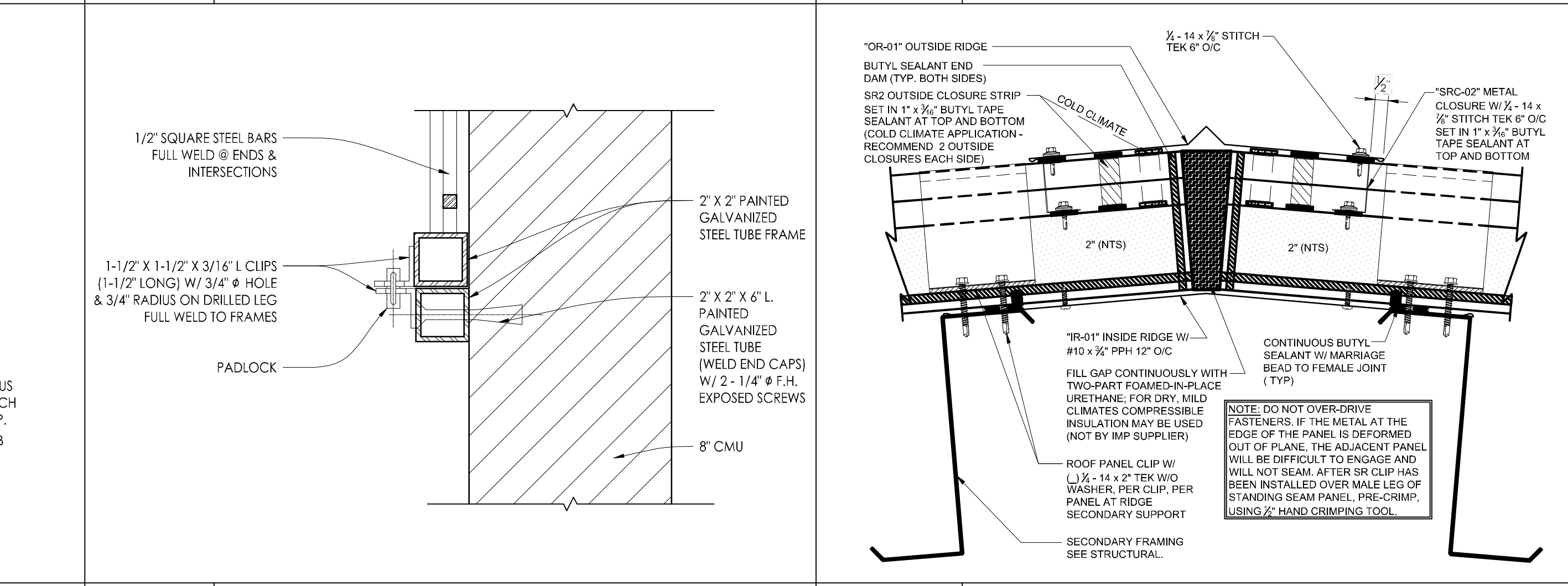
3 FINISH SCHEDULE
3"=1'-0"



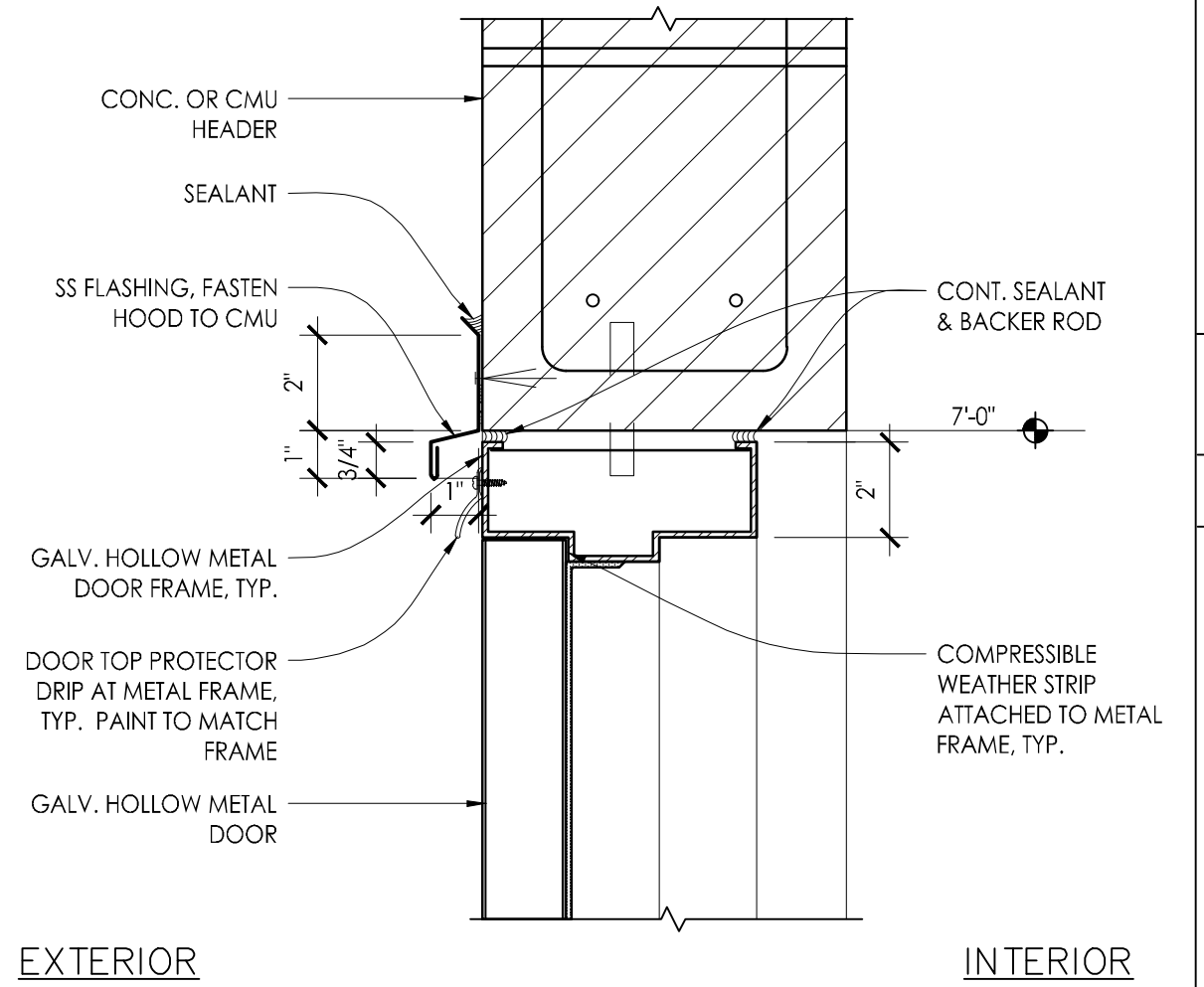
4 GATE MID RAIL DETAIL
3"=1'-0"



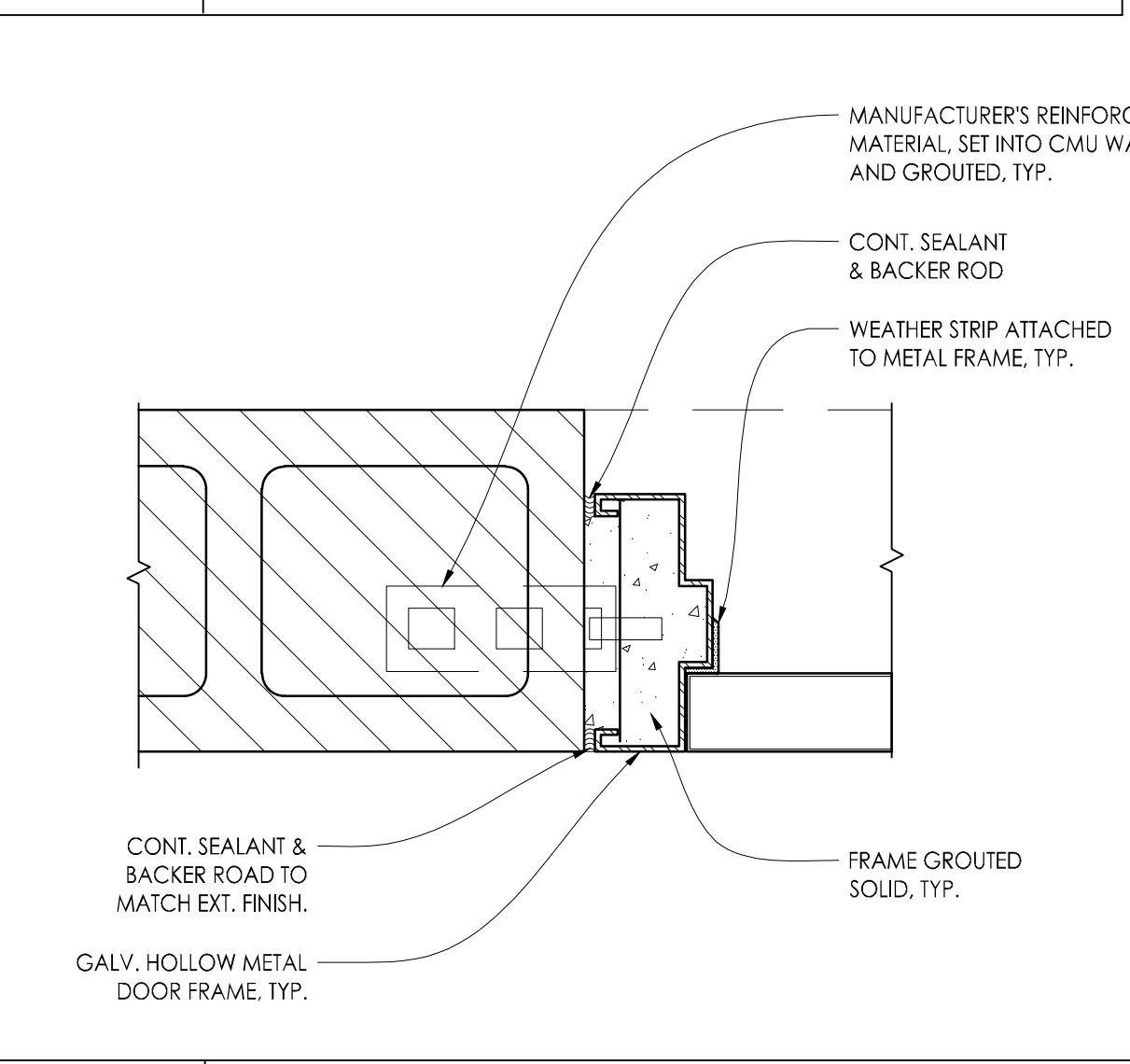
5 GATE JAMB - LOCK DETAIL
3"=1'-0"



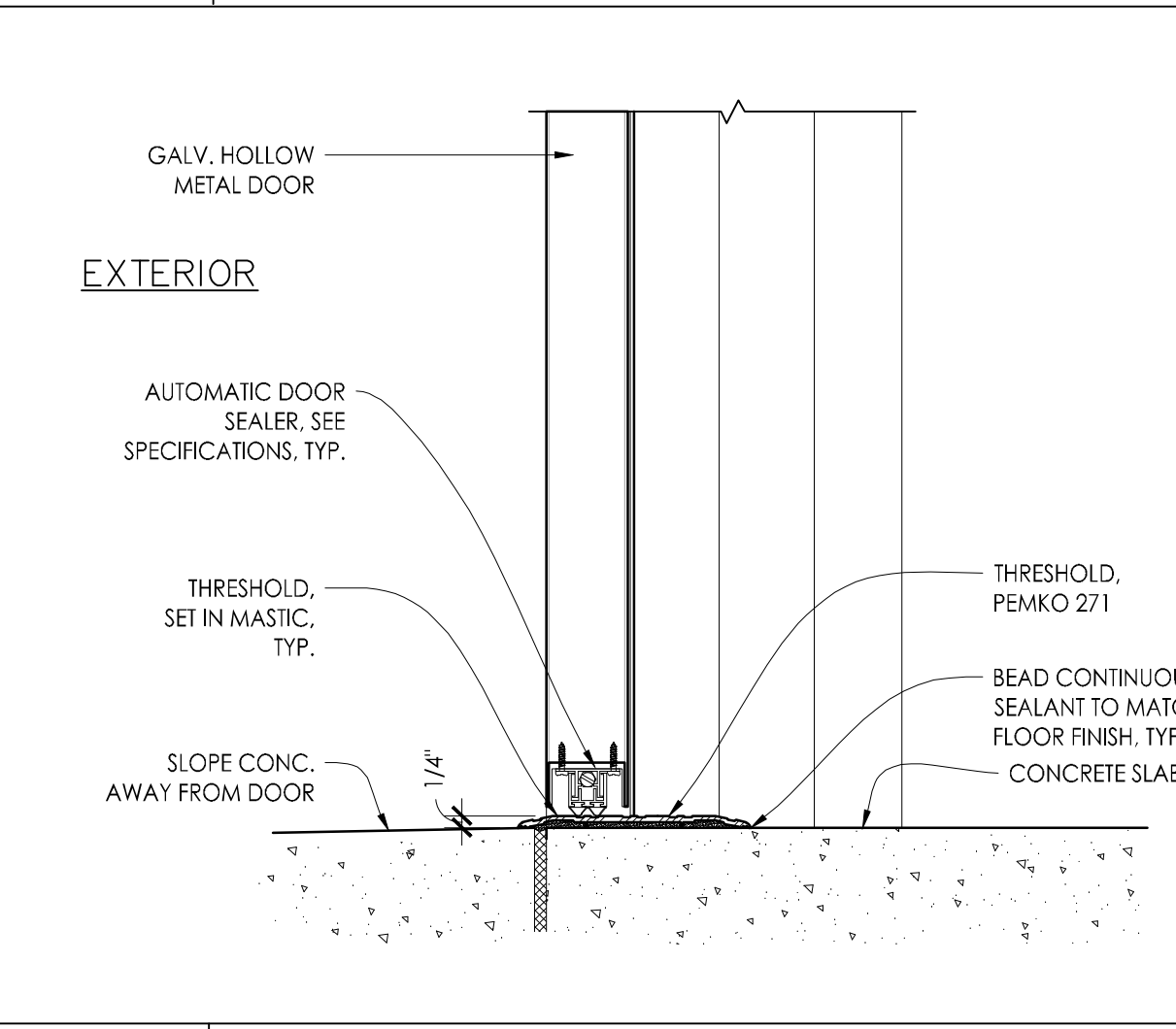
6 RIDGE DETAIL
3"=1'-0"



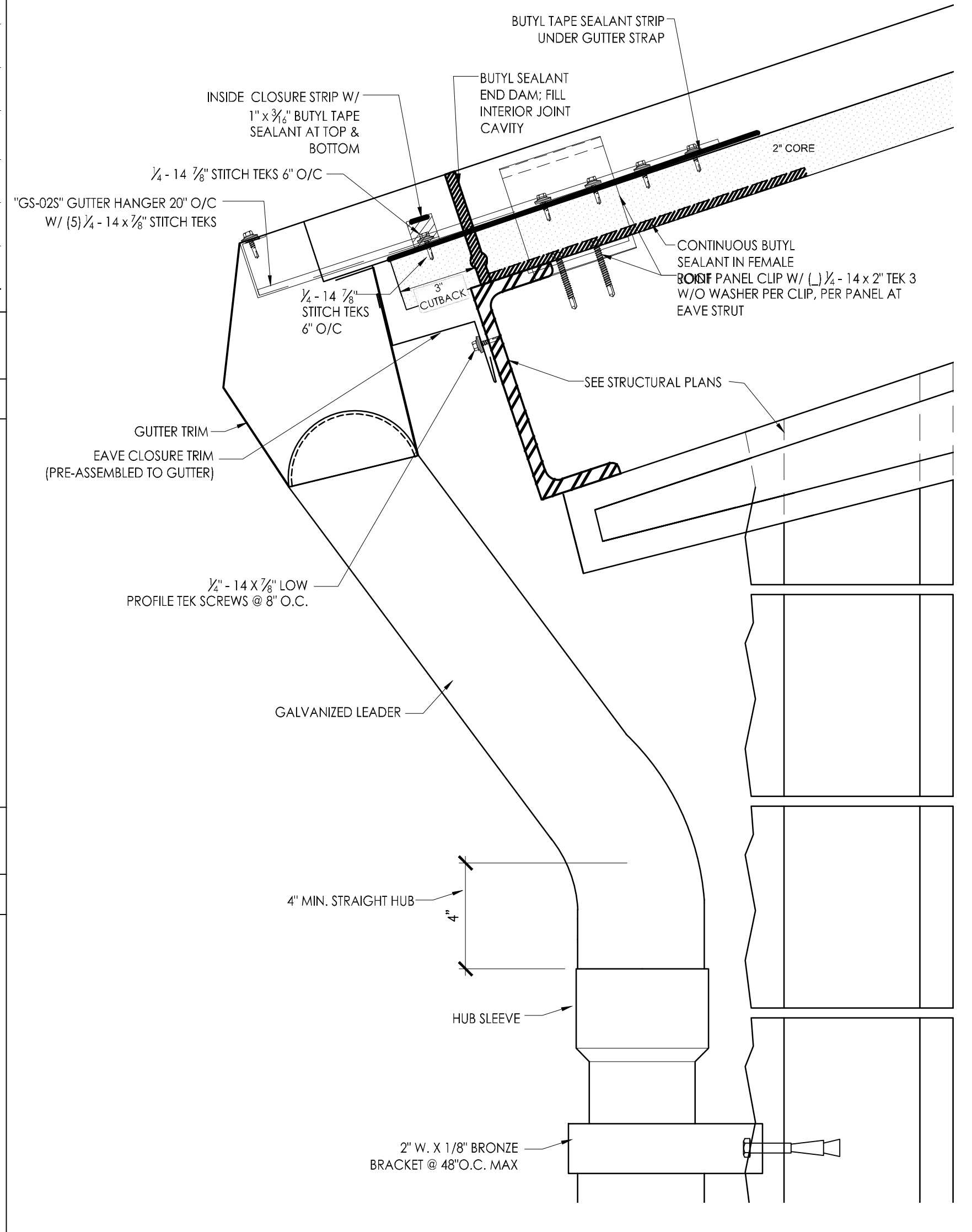
14 DOOR HEADER DETAIL
3"=1'-0"



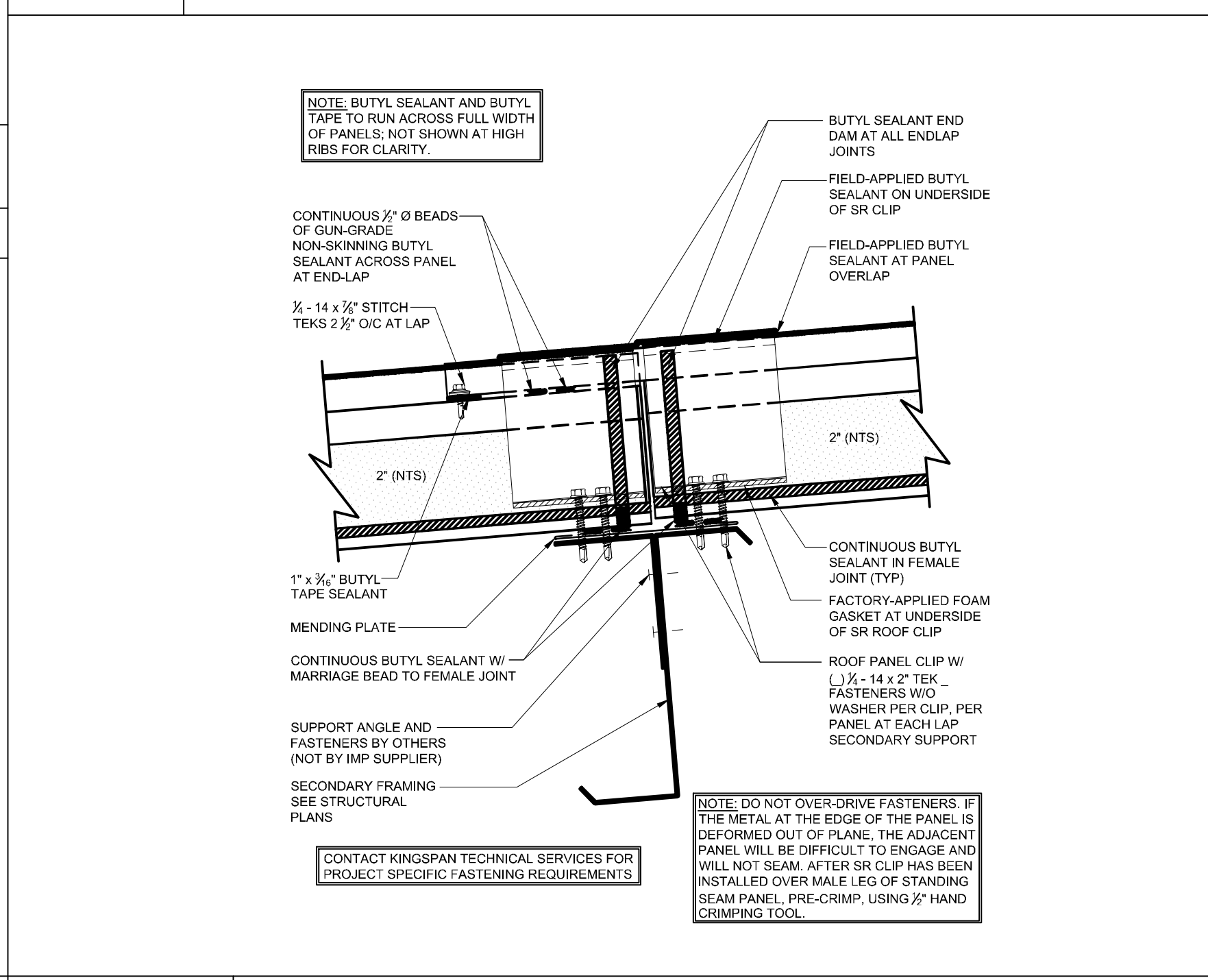
13 DOOR JAMB DETAIL
3"=1'-0"



12 DOOR THRESHOLD DETAIL
3"=1'-0"

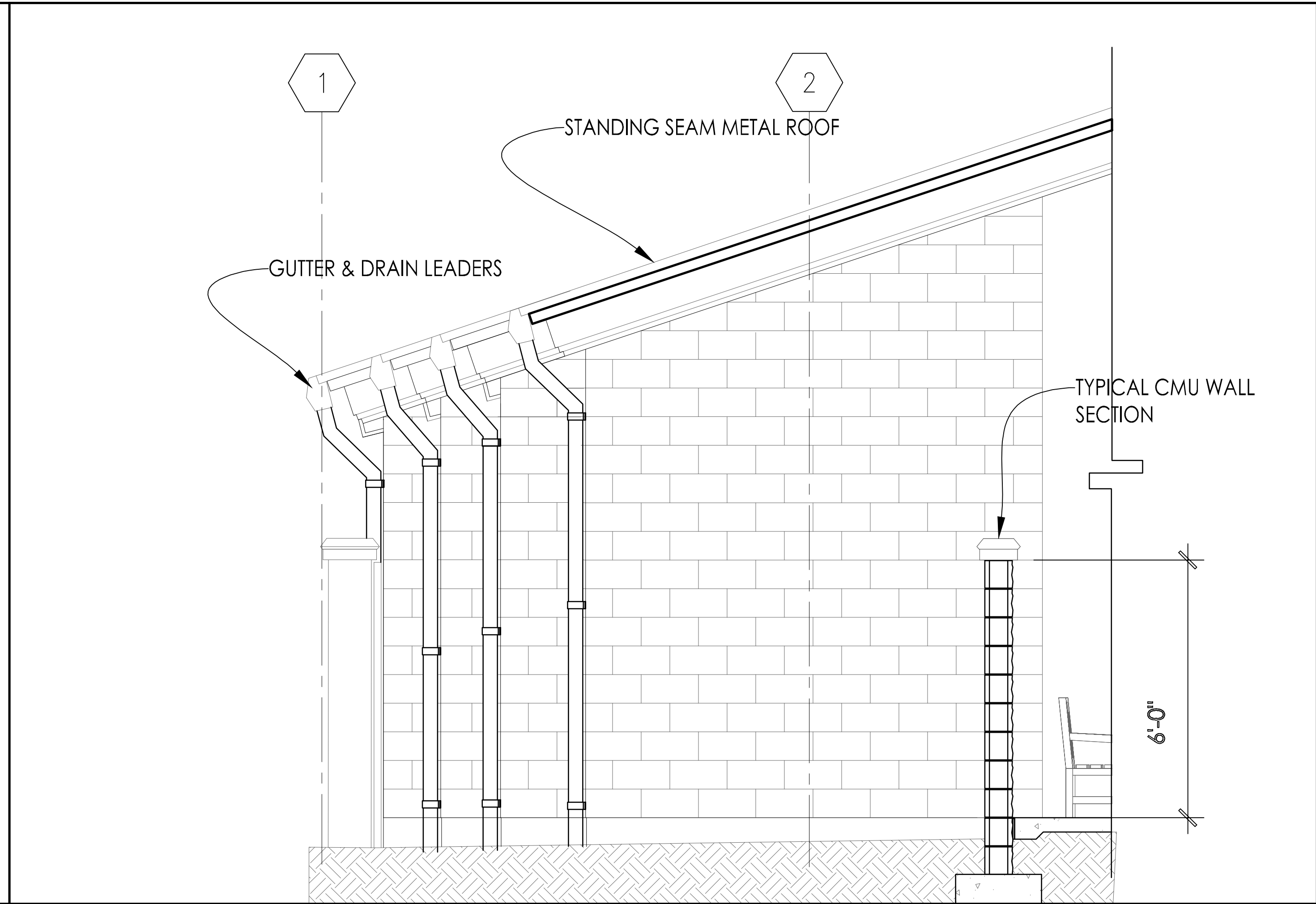
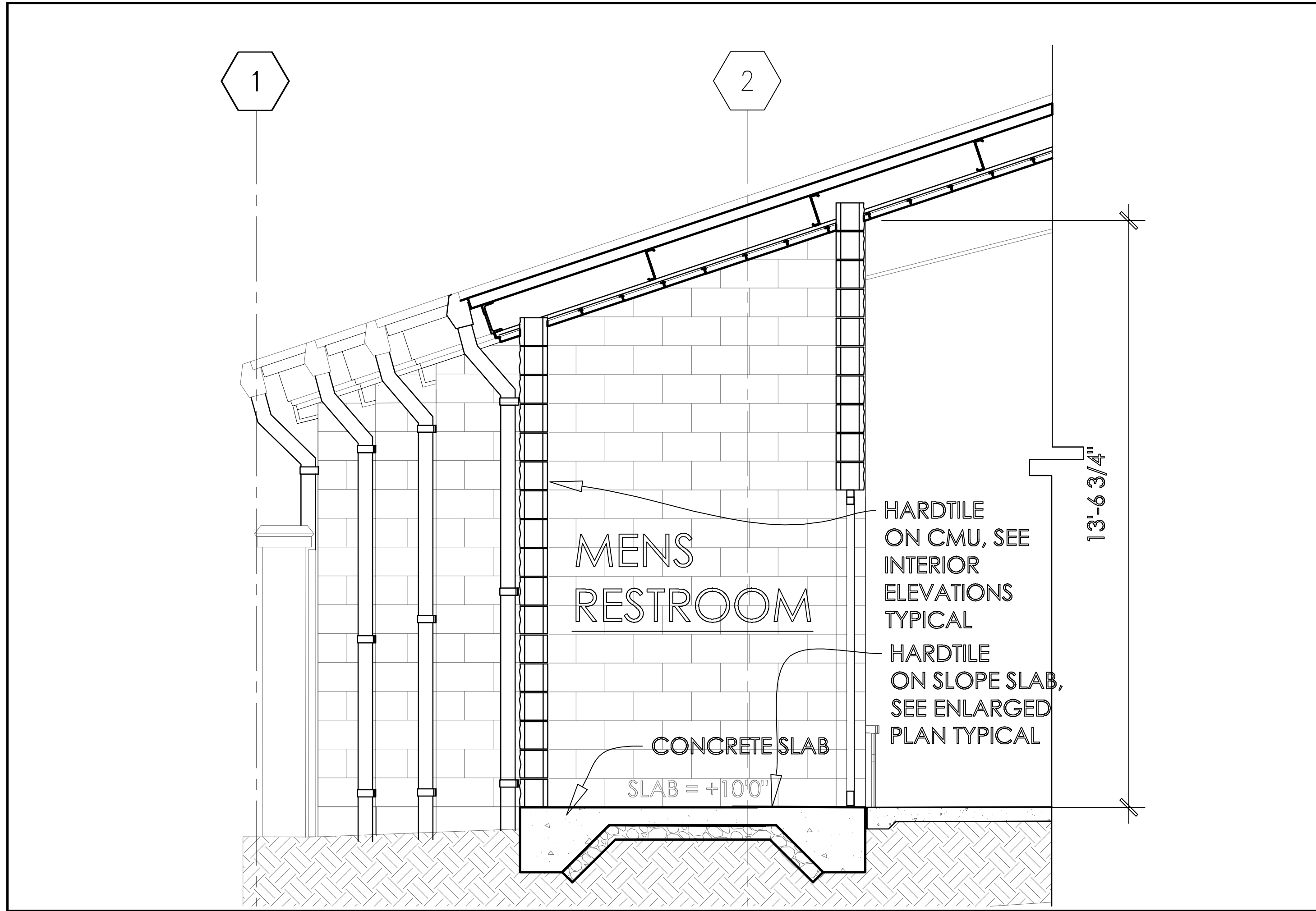


2 TYPICAL ROOF OVERHAND DETAIL
3"=1'-0"



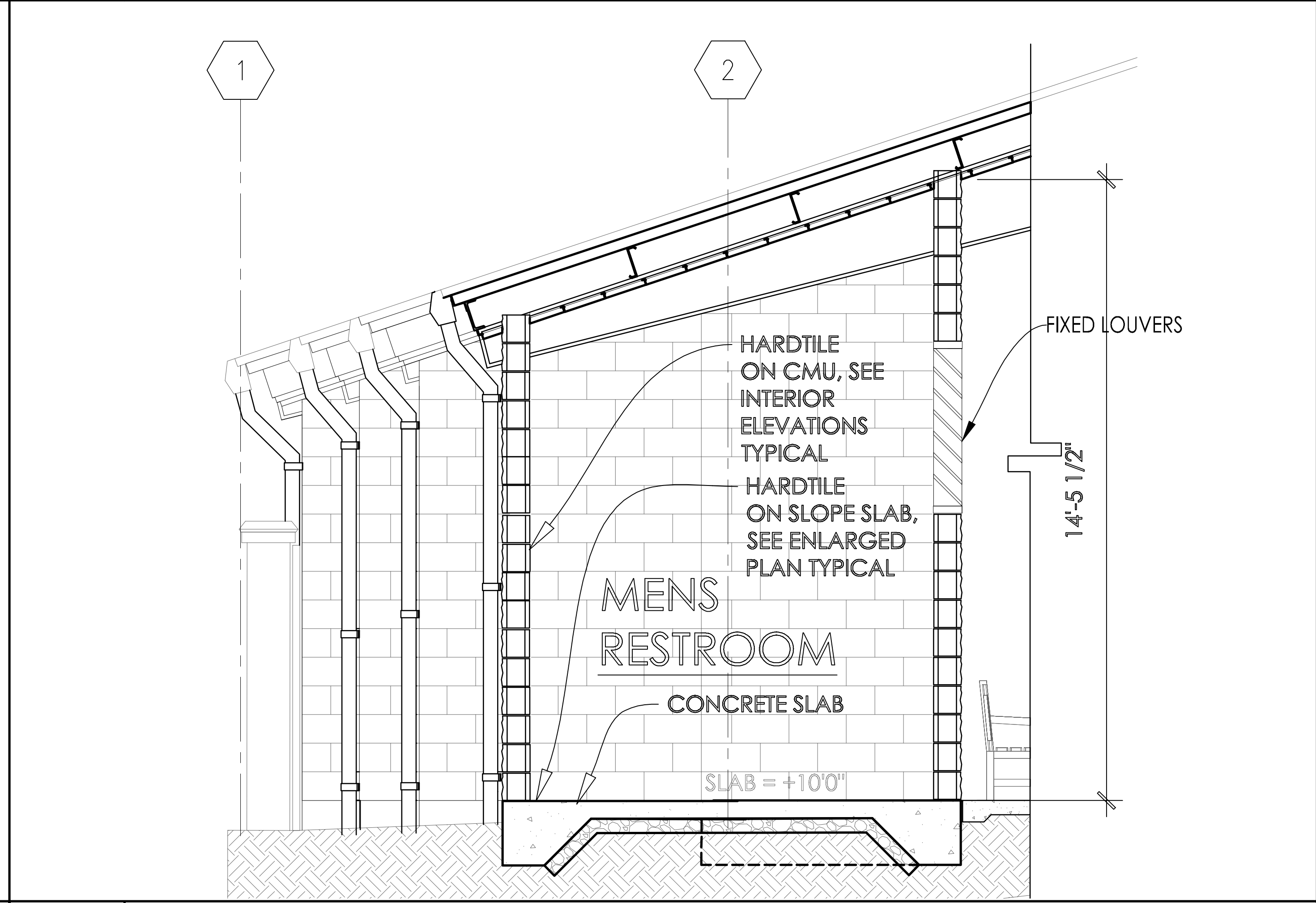
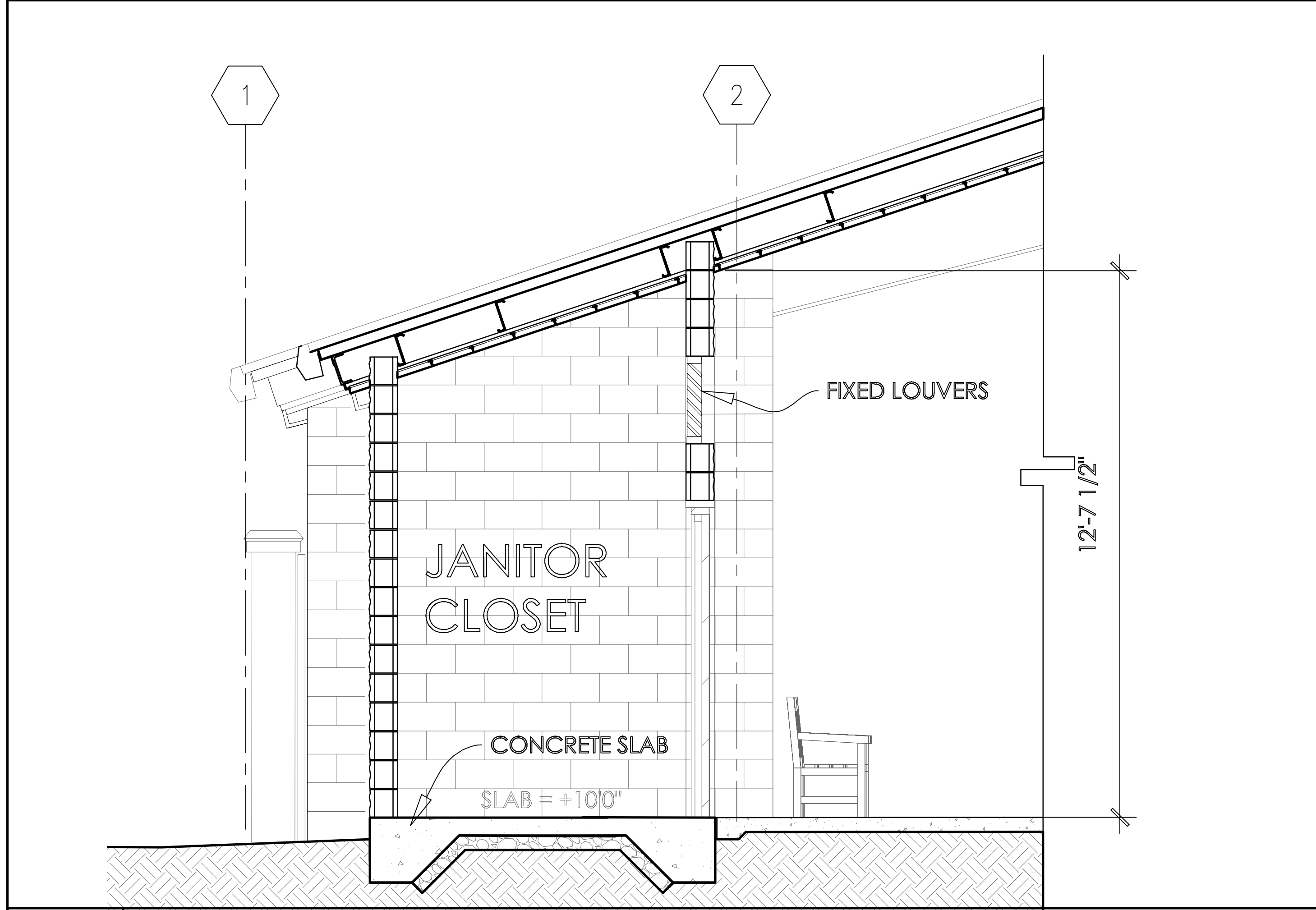
1 ROOF PURLIN DETAIL
3"=1'-0"

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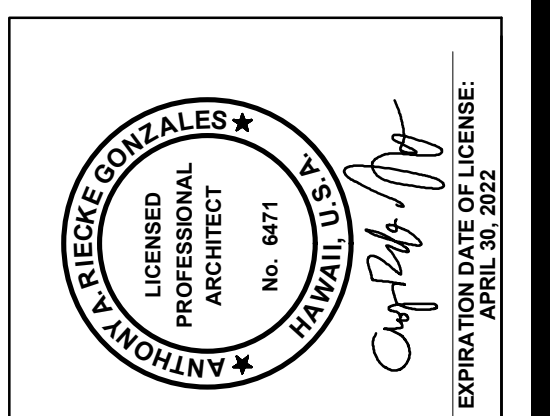
3 WALL SECTION
1/2"=1'-0"

1 WALL SECTION
1/2"=1'-0"



4 WALL SECTION
1/2"=1'-0"

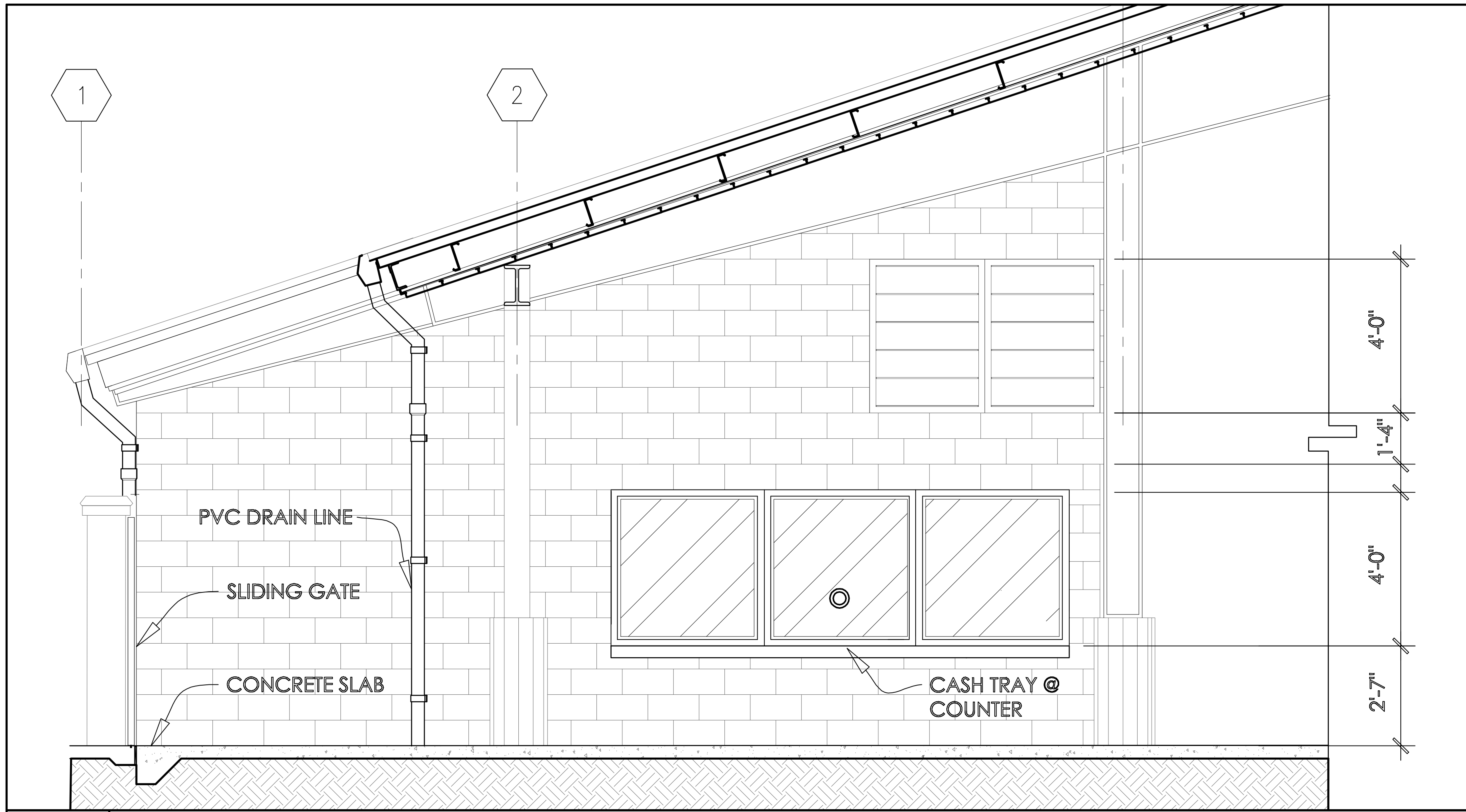
2 WALL SECTION
1/2"=1'-0"



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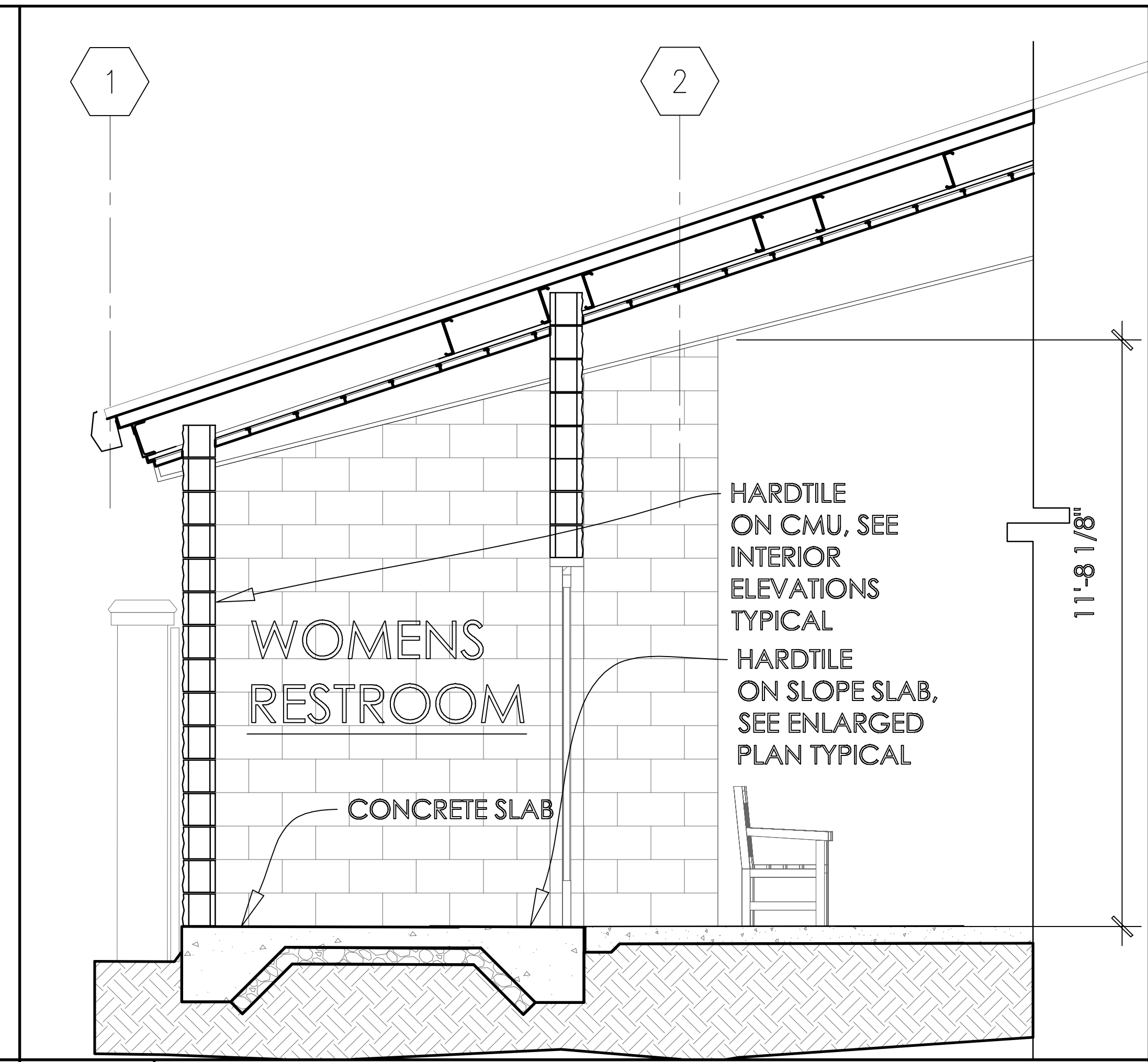
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WALL SECTIONS

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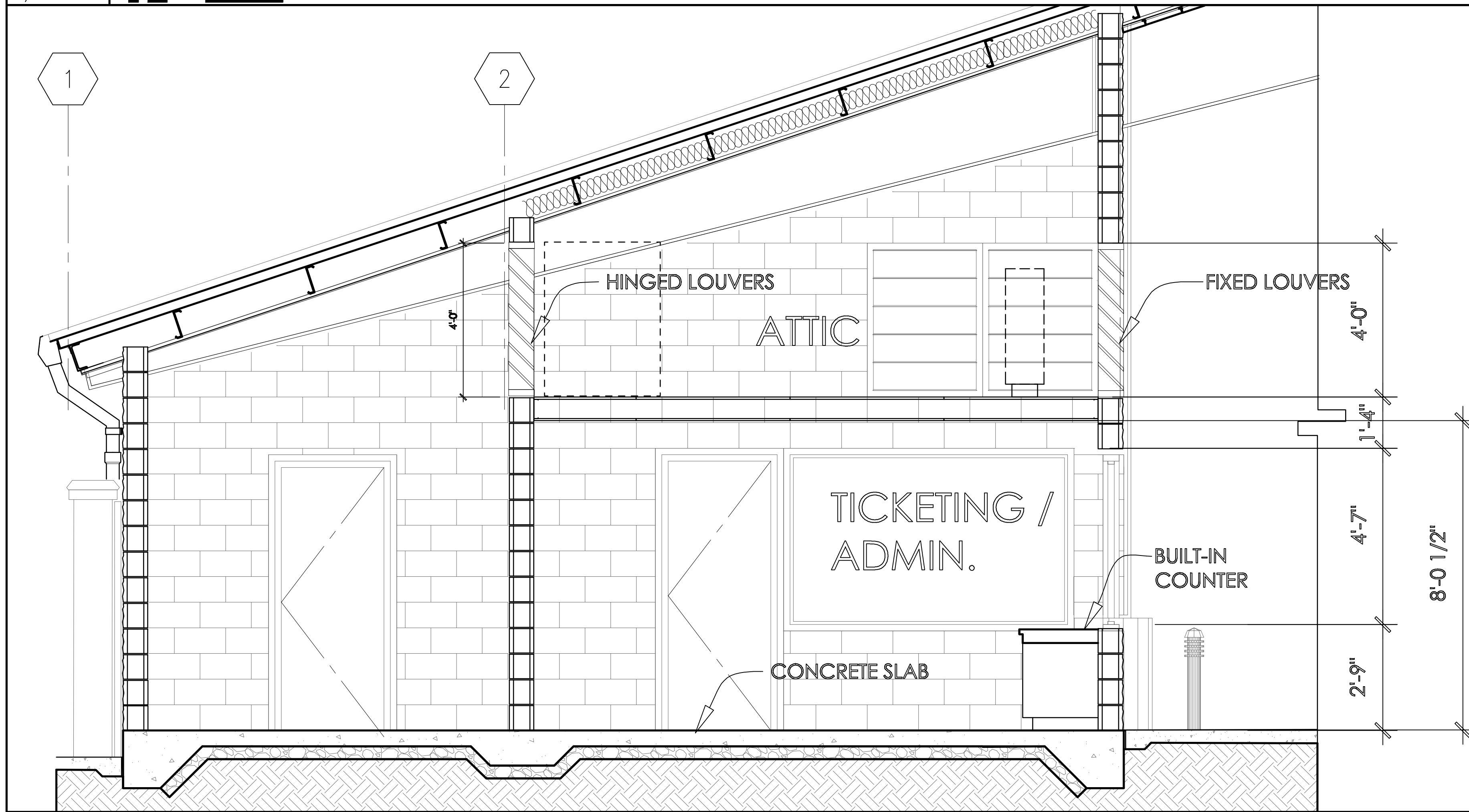
3 WALL SECTION

1/2"=1'-0"



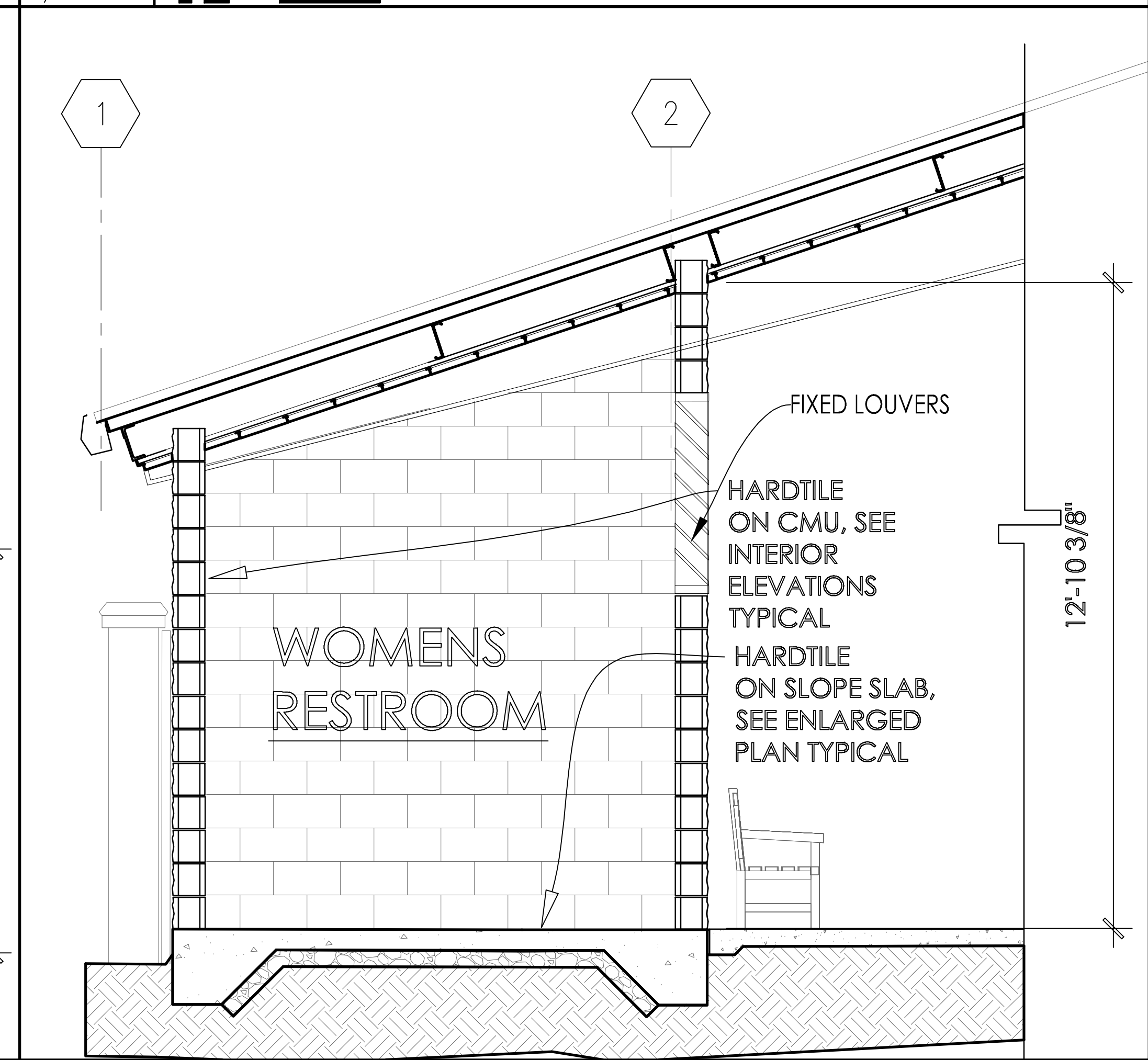
1 WALL SECTION

1/2"=1'-0"



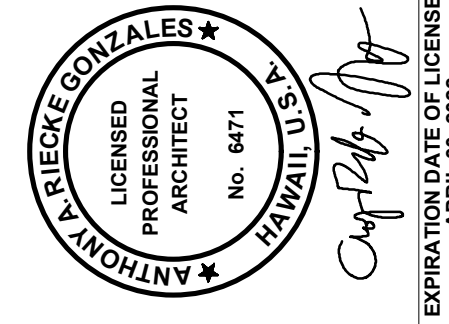
4 WALL SECTION

1/2"=1'-0"



2 WALL SECTION

1/2"=1'-0"



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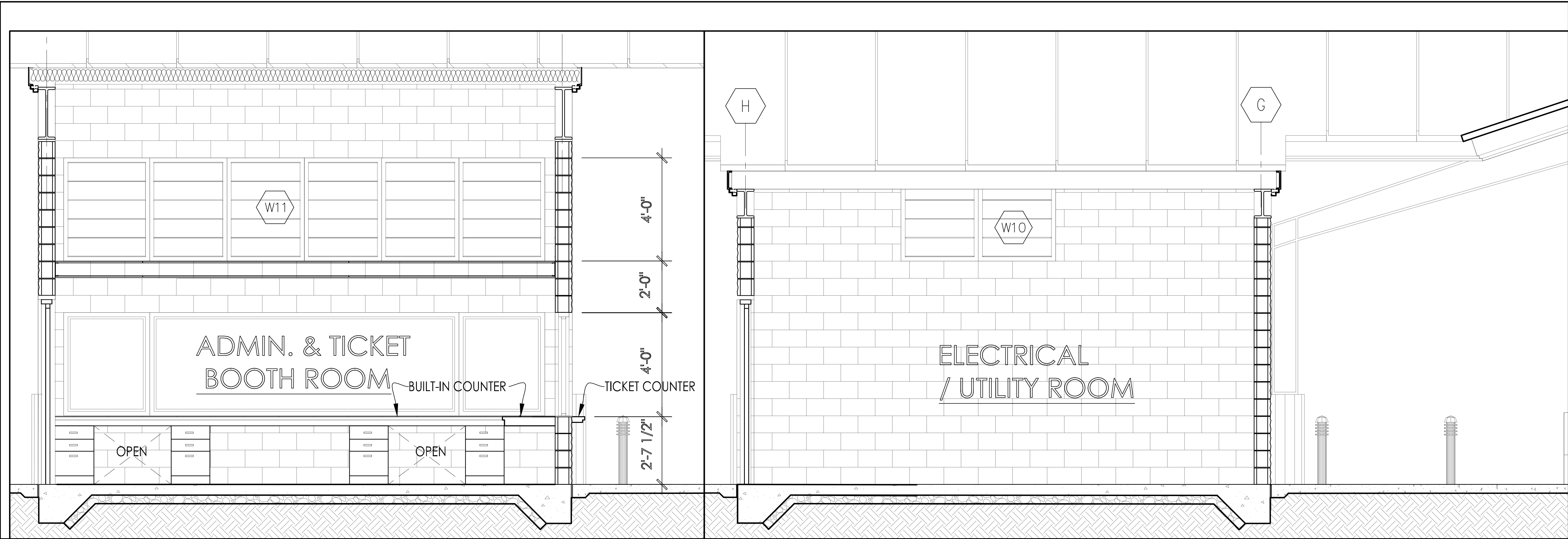
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WALL SECTIONS

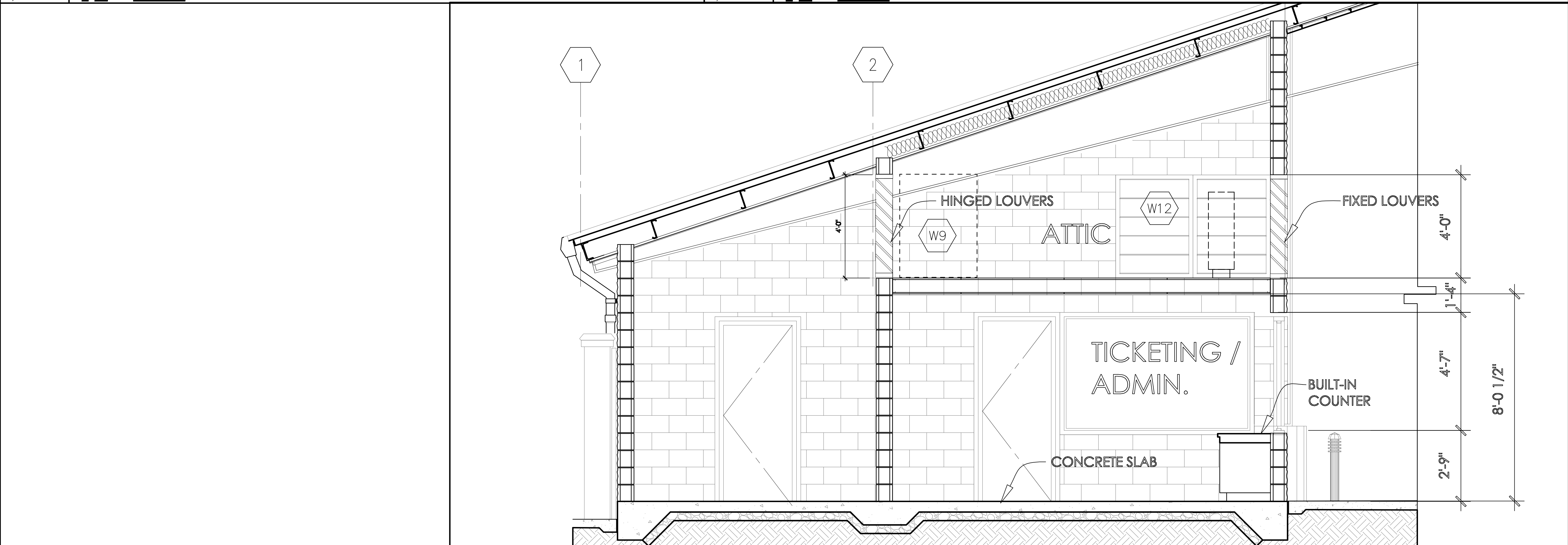
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A-5.2

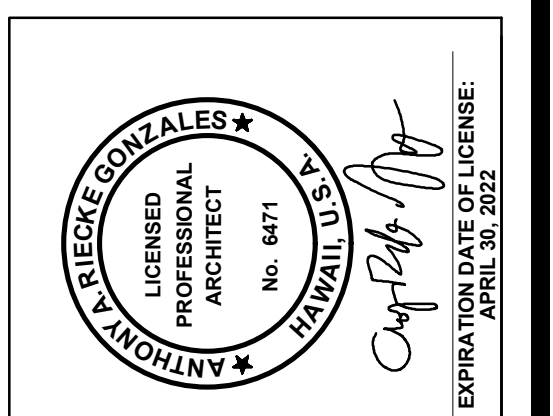
SHEET OF
PROJECT NO. 2018-018
DATE MAY, 2018



3 WALL SECTION **1** WALL SECTIONS



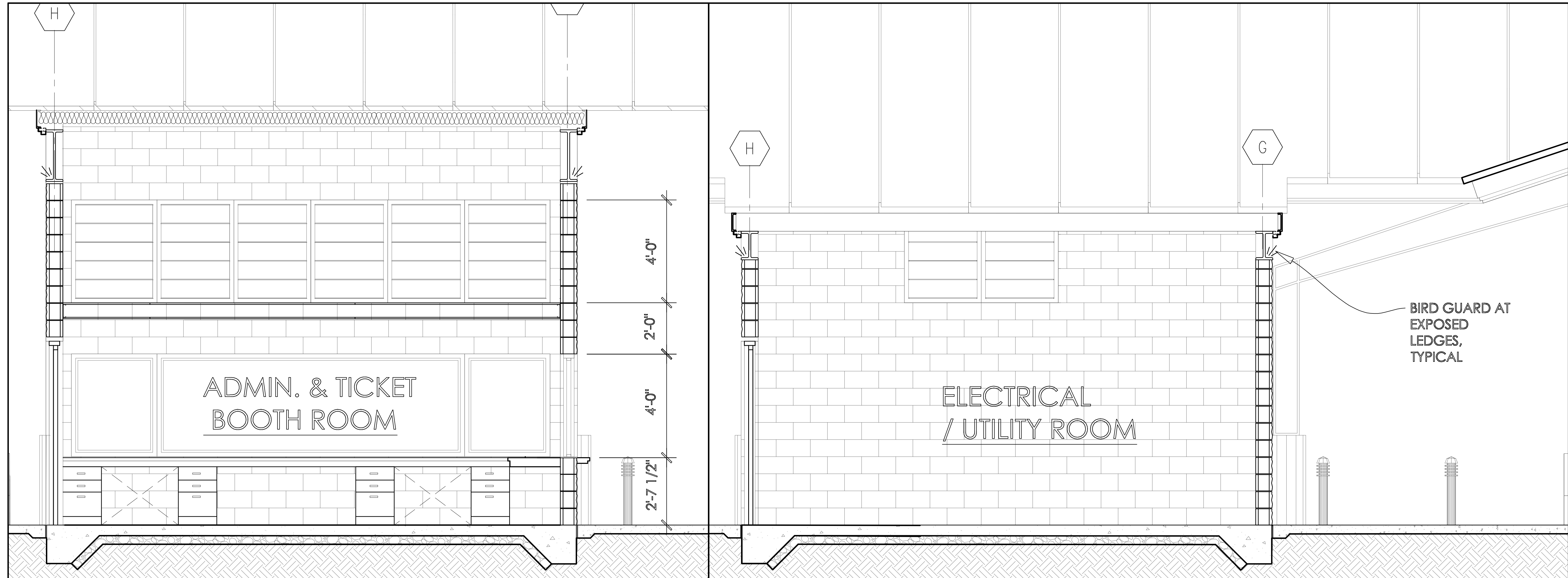
4 WALL SECTION



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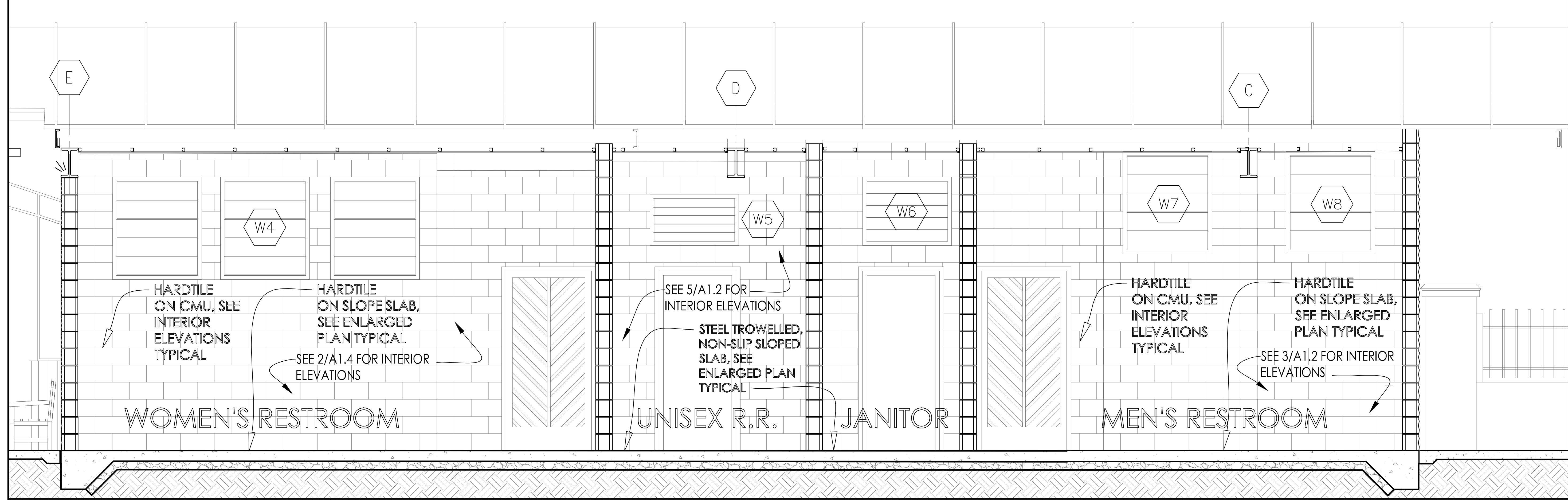
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WALL SECTIONS

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2020-01-23 DESIGN DEVELOPMENT PROGRESS PLANS
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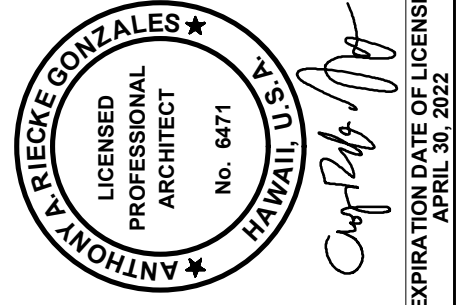


3 WALL SECTION
1/2"=1'-0" 0 1 2 4

1 WALL SECTIONS
1/2"=1'-0" 0 1 2 4



4 WALL SECTION
1/2"=1'-0" 0 1 2 4



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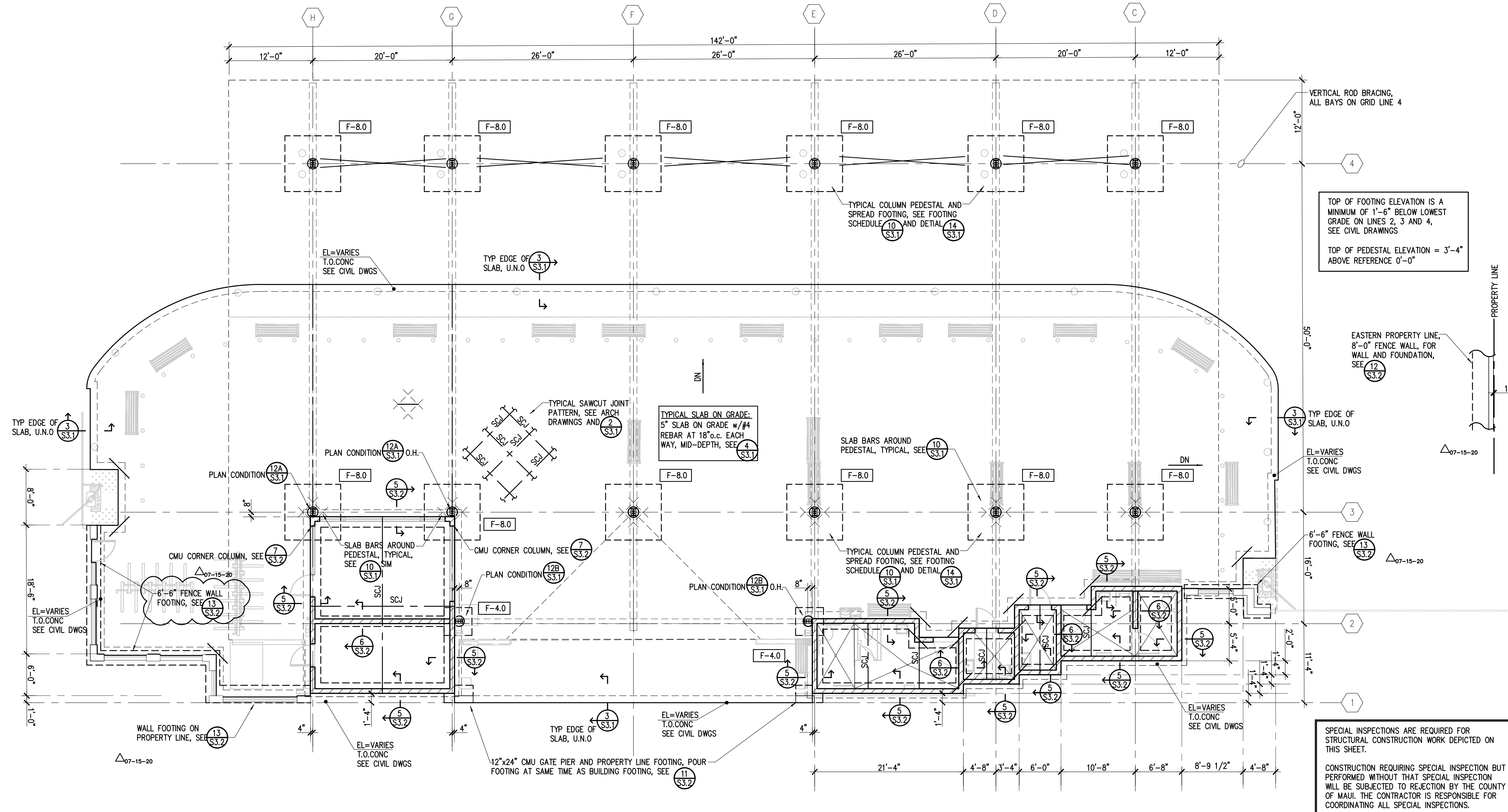
WALL SECTIONS

REVISIONS
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A-5.4

SHEET OF
PROJECT NO. 2018-018
DATE MAY, 2018

Date Plotted: 8/4/2020 4:17 PM
 File Name: C:\Users\SLSE\Dropbox\BID FILES\1845-Kahului Bus Depot\CAD\Structural\2020-08-07 - Bid Set\1845-S01.DWG



MECHANICAL PLATFORM:
 3/4" THICK T&G PLYWOOD (IDENT INDEX 48/24)
 OVER 1000S162-54 COLD FORMED JOISTS SPACED
 AT 16" o.c., BOTTOM OF JOIST ELEVATION 8'-0".

NOTES ON THE PEMB LATERAL FORCE RESISTING SYSTEM ON GRID LINES 1 AND 2:
 ROD BRACING IS DEPICTED AS THE LATERAL FORCE RESISTING SYSTEM ALONG GRID LINE 4. THIS SYSTEM IS CONCEPTUAL IN NATURE. THE FINAL CONFIGURATION OF THE LATERAL FORCE RESISTING SYSTEM IS THE DESIGN RESPONSIBILITY OF THE PRE-ENGINEERED METAL BUILDING DESIGNER/SUPPLIER. THE SYSTEM CONFIGURATION MUST BE APPROVED BY THE ARCHITECT. THE FINAL SYSTEM CONFIGURATION MAY REQUIRE MODIFICATION OF THE FOUNDATION DESIGN AS DEPICTED.

NOTE TO OWNER:
Cracking of Reinforced Concrete Slabs-On-Grade:
 The occurrence of surface cracking is inherent to typical reinforced concrete construction. Concrete develops cracks for a number of reasons. Concrete inherently shrinks while curing, and it expands and contracts as it heats and cools over the course of the day. The restraining effects of walls, frames and foundations often result in cracking as the concrete attempts to expand and contract. Cracking due to shrinkage and temperature effects is typically cosmetic and does not decrease the design strength or serviceability characteristics of the reinforced concrete.
 Most cosmetic cracks described above develop within the first three years construction. Bring cracks that may indicate a structural problem and/or cracks that are larger than 1/32-inch to the attention of the Structural Engineer.

FOR PRE-ENGINEERED METAL BUILDING NOTES, SEE S2.2.

NOTES ON THE FOUNDATION DESIGN:
 THE FOUNDATION HAS BEEN DESIGNED TO SUPPORT ASSUMED LOADS IMPOSED BY THE PRE-ENGINEERED METAL BUILDING. THE ASSUMED REACTIONS USED IN THE DESIGN ARE BASED ON SIMILAR BUILDING SYSTEMS AND CONFIGURATIONS. MODIFICATIONS OF THE FOUNDATION SYSTEM MAY BE REQUIRED BASED ON THE FINAL PRE-ENGINEERED BUILDING DESIGN.

NOTES ON THE PRE-ENGINEERED METAL BUILDING (PEMB) DESIGN:
 THE PEMB DESIGN IS TO COMPLY WITH ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO INFORMATION SHOWN IN THESE STRUCTURAL DRAWINGS. SEE THE ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS FOR ADDITIONAL CRITERIA.

THE PEMB DESIGN IS TO COMPLY WITH ALL THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AS AMENDED BY THE COUNTY OF MAUI.
 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PEMB STRUCTURAL DESIGN. PROVIDE THE FINAL BUILDING LOADS, IN WRITING, TO THE STRUCTURAL ENGINEER FOR HIS REVIEW AND APPROVAL BEFORE THE FINAL PEMB DESIGN IS APPROVED AND BEFORE BEGINNING FABRICATION.

TOP OF FOOTING ELEVATION IS A MINIMUM OF 1'-6" BELOW LOWEST GRADE ON LINES 2, 3 AND 4, SEE CIVIL DRAWINGS
 TOP OF PEDESTAL ELEVATION = 3'-4" ABOVE REFERENCE 0'-0"

EASTERN PROPERTY LINE, 8'-0" FENCE WALL, FOR WALL AND FOUNDATION, SEE 12/S3.7

SPECIAL INSPECTIONS ARE REQUIRED FOR STRUCTURAL CONSTRUCTION WORK DEPICTED ON THIS SHEET.
 CONSTRUCTION REQUIRING SPECIAL INSPECTION BUT PERFORMED WITHOUT THAT SPECIAL INSPECTION WILL BE SUBJECT TO REJECTION BY THE COUNTY OF MAUI. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL SPECIAL INSPECTIONS.

- PLAN NOTES:**
- FOR ABBREVIATIONS AND MATERIAL LEGEND, SEE SHEET S1.1
 FOR GENERAL NOTES, SEE SHEET S1.1
 FOR FOUNDATION DETAILS, SEE S3 SERIES
 FOR PARTITION WALL DETAILS, SEE S4 SERIES
 - VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, CURBS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
 - FOR TOP OF CONCRETE SLAB ELEVATION IS REFERENCE ELEVATION EL=0'-0" UNLESS OTHERWISE NOTED WHERE ELEVATION EL=0'-0" IS EL=10.75'. SEE CIVIL DRAWINGS.
 - DETAILING OF ALL WATERPROOFING AND DRAINAGE ASSEMBLIES, ALTHOUGH INDICATED ON PLANS FOR INFORMATIONAL PURPOSES, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND DIMENSIONS NOT NOTED.
- PLAN LEGEND:**
- SCJ - INDICATES SHRINKAGE CONTROL JOINT, SEE 2/S3.1
 - 3" - INDICATES SLAB DEPRESSION AND DEPTH, SEE 9/S3.1
 - - - - - INDICATES FULLY GROUTED 8-INCH CMU WALL, SEE DETAIL 1/S3.2
 - F-6.0 - INDICATES FOOTING SIZE, SEE SCHEDULE 10/S3.1
 - - INDICATES #4x4'-0" AT RE-ENTRANT SLAB CORNER, SEE 7/S3.1
 - DN - INDICATES SLOPE DIRECTION, SEE ARCH DRAWINGS.
 - X - INDICATES SLABS SLOPED TO DRAIN, SEE ARCH DRAWINGS
- ABBREVIATIONS:**
 "PEMB" - PRE-ENGINEERED METAL BUILDING

1 FOUNDATION PLAN
 S2.1 SCALE: 1/8"=1'-0"

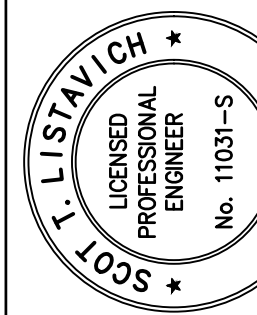
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FOUNDATION PLAN



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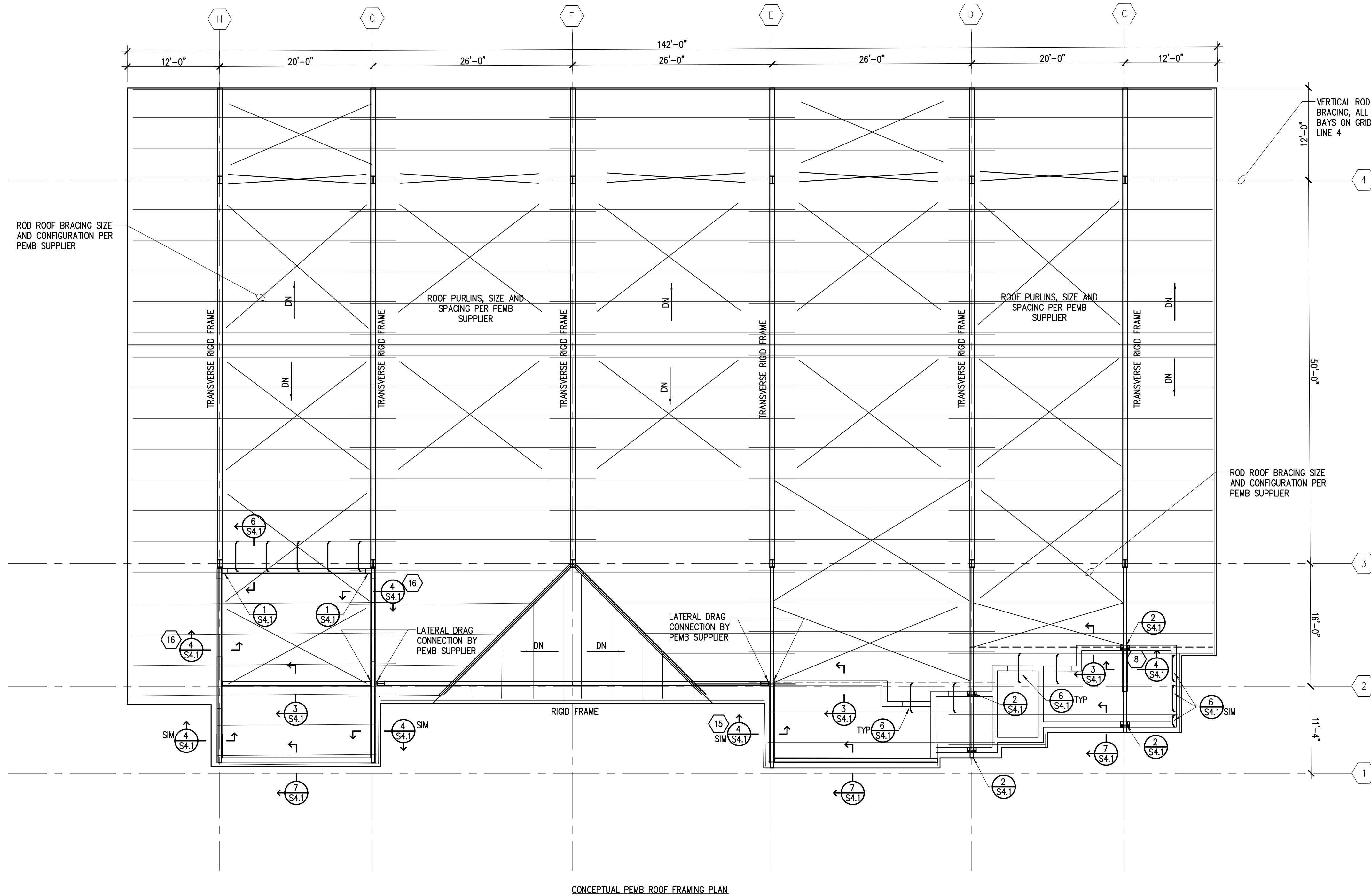
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 MAKAWAO, MAUI, HI 96768
 PH: 808-878-8967
 FAX: 866-660-1381
 EMAIL: SCOT@SLSEMAUI.COM

S2.1

RISK PROJECT NO.: 2018-018
 SHEET PROJECT NO.: 1845
 DATE: JANUARY, 2020

Date Plotted: 8/4/2020 4:17 PM
 File Name: C:\Users\SLSE\Dropbox\JDB FILES\1845-Kahului Bus Depot\CAD\Structural\2020-08-07 - Bid Set\1845-S01.DWG



CONCEPTUAL PEMB FRMG PLAN

NOTES ON THE PEMB LATERAL FORCE RESISTING SYSTEM ON GRID LINES 1 AND 2:
 ROD BRACING IS DEPICTED AS THE LATERAL FORCE RESISTING SYSTEM ALONG GRID LINE 4. THIS SYSTEM IS CONCEPTUAL IN NATURE. THE FINAL CONFIGURATION OF THE LATERAL FORCE RESISTING SYSTEM IS THE DESIGN RESPONSIBILITY OF THE PRE-ENGINEERED METAL BUILDING DESIGNER/SUPPLIER. THE SYSTEM CONFIGURATION MUST BE APPROVED BY THE ARCHITECT. THE FINAL SYSTEM CONFIGURATION MAY REQUIRE MODIFICATION OF THE FOUNDATION DESIGN AS DEPICTED.

NOTES ON THE FOUNDATION DESIGN:
 THE FOUNDATION HAS BEEN DESIGNED TO SUPPORT ASSUMED LOADS IMPOSED BY THE PRE-ENGINEERED METAL BUILDING. THE ASSUMED REACTIONS USED IN THE DESIGN ARE BASED ON SIMILAR BUILDING SYSTEMS AND CONFIGURATIONS. MODIFICATIONS OF THE FOUNDATION SYSTEM MAY BE REQUIRED BASED ON THE FINAL PRE-ENGINEERED BUILDING DESIGN.

NOTES ON THE PRE-ENGINEERED METAL BUILDING (PEMB) DESIGN:
 THE PEMB DESIGN IS TO COMPLY WITH ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO INFORMATION SHOWN IN THESE STRUCTURAL DRAWINGS. SEE THE ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS FOR ADDITIONAL CRITERIA.

THE PEMB DESIGN IS TO COMPLY WITH ALL THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AS AMENDED BY THE COUNTY OF MAUI.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PEMB STRUCTURAL DESIGN. PROVIDE THE FINAL BUILDING LOADS, IN WRITING, TO THE STRUCTURAL ENGINEER FOR HIS REVIEW AND APPROVAL BEFORE THE FINAL PEMB DESIGN IS APPROVED AND BEFORE BEGINNING FABRICATION.

COORDINATION WITH MECHANICAL DRAWINGS:
 THE PEMB SUPPLIER IS TO PROVIDE ADDITIONAL STRUCTURAL FRAMING TO SUPPORT ANY MECHANICAL UNITS HUNG FROM STRUCTURE.

THE PEMB SUPPLIER AND CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUPPORT FOR ALL HUNG MECHANICAL UNITS INDICATED ON THE MECHANICAL DRAWINGS. DESIGN ALL STRUCTURAL MEMBERS AFFECTED BY THE HUNG AC UNIT INCLUDING BUT NOT LIMITED TO THE PURLINS, FRAMES AND COLUMNS.

PROVIDE REVISED SUPPORT FOR ANY CHANGES OR REVISIONS TO THE WEIGHTS OR LOCATIONS OF THE HUNG UNITS THAT OCCUR DURING CONSTRUCTION.

PLAN NOTES:

- FOR ABBREVIATIONS AND MATERIAL LEGEND, SEE SHEET S1.1 FOR GENERAL NOTES, SEE SHEET S1.1 AND S1.2
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, ETC., WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- DETAILING OF ALL WATERPROOFING AND DRAINAGE ASSEMBLIES, ALTHOUGH INDICATED ON PLANS FOR INFORMATIONAL PURPOSES, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND DIMENSIONS NOT NOTED.
- ABBREVIATIONS:**
 PEMB - PRE-ENGINEERED METAL BUILDING

PRE-ENGINEERED METAL BUILDING (PEMB) NOTES
 Prefabricated metal building supplier is responsible for the structural design of the PEMB

All work shall conform to the following applicable building codes:

- "Metal Building Manufacturer's Association Codes" (latest edition)
- "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" (AISC)
- "Specifications for the Design of Light Gauge Cold-Formed Steel Structural Members."
- 2006 International Building Code as amended by the County of Maui

The pre-fabricated building package shall include, but not be limited to, all primary and secondary framing, braces, wall and roof coverings, soffits, fasteners, accessories, fascia and all other items necessary to provide a complete building. Prepare Shop Drawings in conformance with the IBC requirements and shall be stamped and signed by a Structural Engineer licensed to practice in the State of Hawaii.

Design all primary and secondary framing to satisfy stress and deflection criteria. The allowable deflection due to Live Load shall not exceed L/240 (Reference 2006 IBC, Section 1604.3.1 and Table 1604.3).

Design Loads:
 -Dead Loads:
 Downward Gravity Load direction: Actual + 7 psf Collateral Loads.
 Uplift Upward direction: Use Actual + 0 psf Collateral when computing the net wind uplift on the structural elements.
 -Live Loads: 20 psf with reductions per the 2006 International Building Code.
 -Wind Load per ASCE 7-05 with the following Exposure and Kzt:
 105 mph (3 Second gust wind speed)
 Exposure C
 Kzt = 1.0
 -Seismic per ASCE 7-05:
 Ss = 0.90 g (0.2 Sec Spectral Response Acceleration, 5% of critical damping)
 S1 = 0.25 g (1.0 Sec Spectral Response Acceleration, 5% of critical damping)
 Site Class = D
 I = 1.0 (Importance Factor, Occupancy Category II)

***Foundation Concrete: Base plates and anchor bolts shall be proportioned such that only a MAXIMUM concrete strength of 3000 psi is required at the interface between the metal building and foundation.

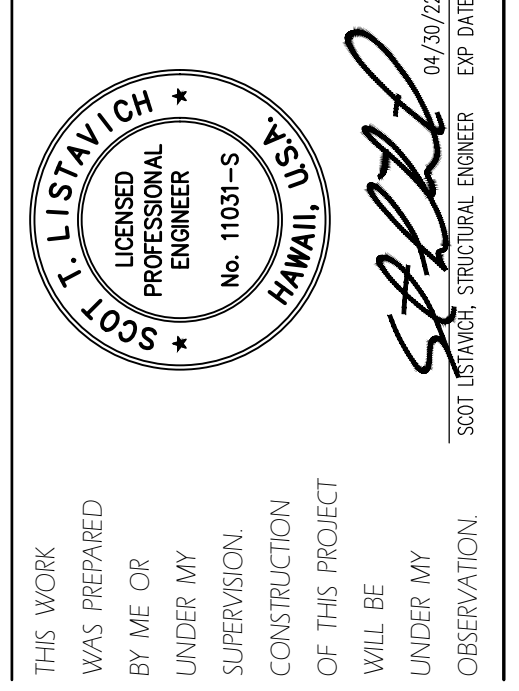
Anchor bolts shall be STAINLESS STEEL, Grade 30 minimum. Provide and install Anchor bolts with steel templates. "J" Bolts are NOT ALLOWED.

The lateral displacement (Delta) due to wind or Seismic Loads shall be as follows:
 -Wind: Wind Delta < Frame Height/180
 -Seismic: 0.7xR seismic Delta < Frame Height/50

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 CONCEPTUAL PEMB FRAMING PLAN

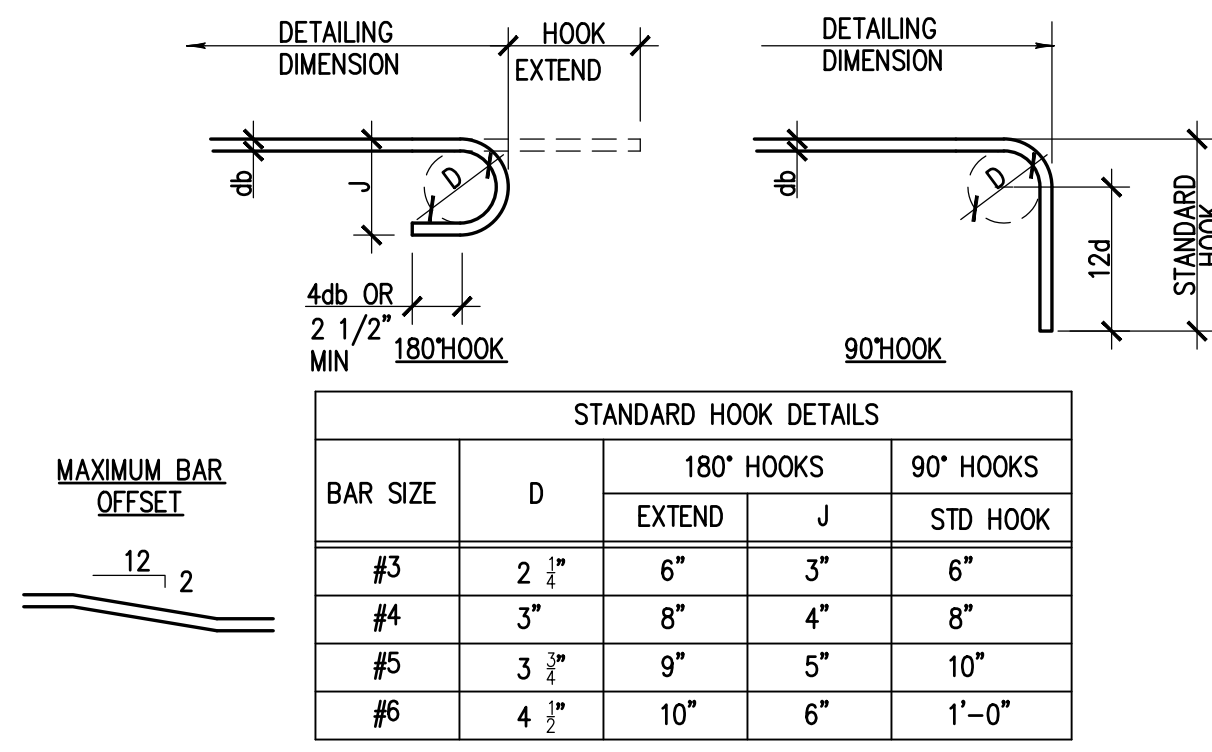
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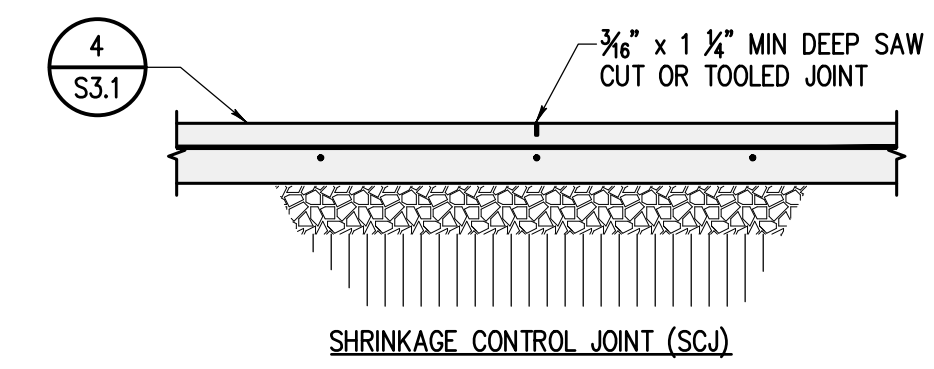
S2.2

RISK PROJECT NO.: 2018-018
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 DATE: JANUARY, 2020

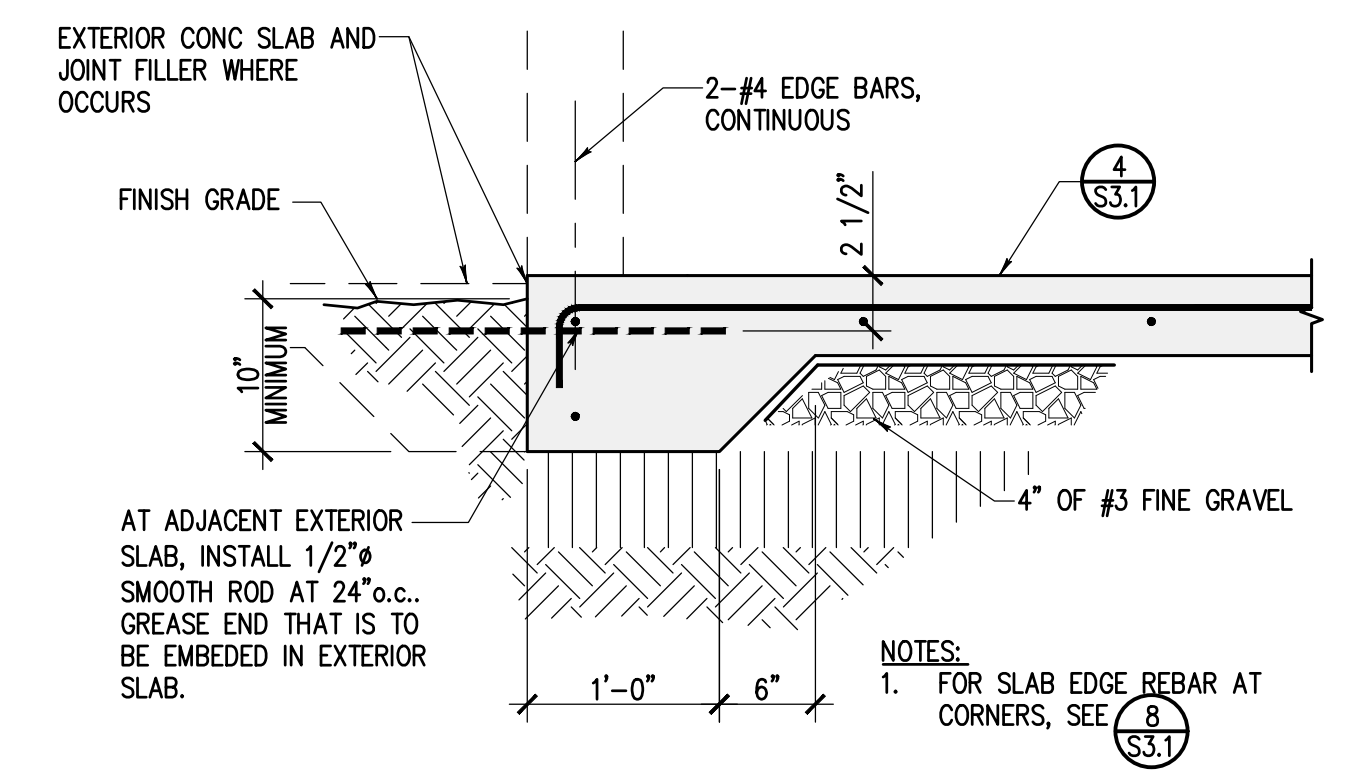


1 CONCRETE REINFORCEMENT HOOKS
S3.1 SCALE: NONE

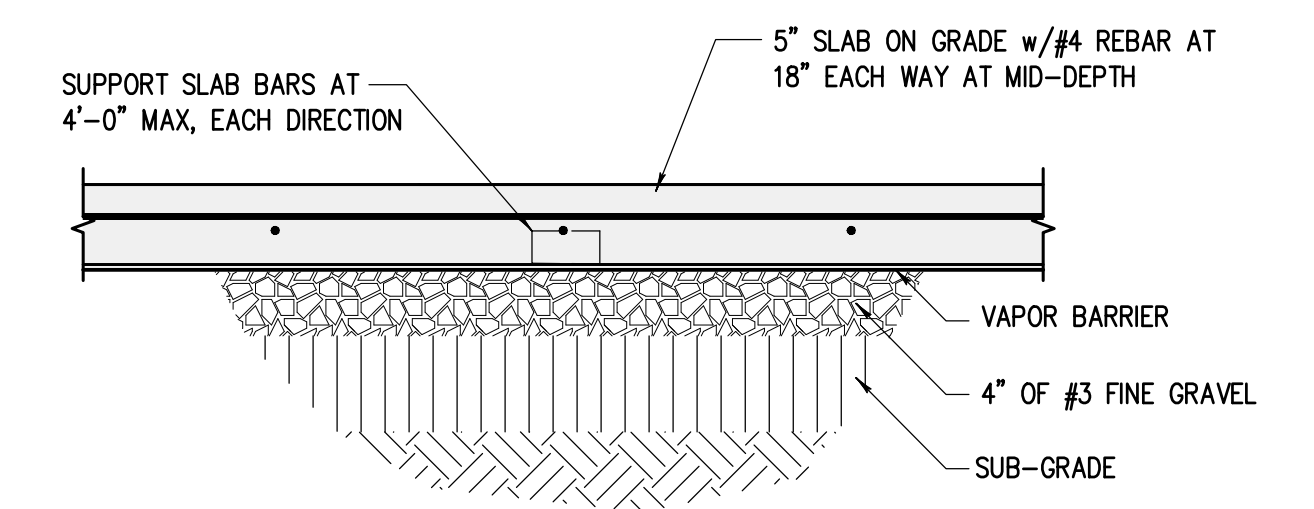
- NOTES:
 1. FOR SLAB THICKNESS AND REINFORCEMENT, SEE PLANS.
 2. REINFORCING SHALL BE CONTINUOUS ACROSS JOINTS UNLESS NOTED OTHERWISE.
 3. SAW CUT SHALL BE DONE WITHIN 24 HOURS OF POURING CONCRETE.
 4. FOR TOOLED JOINT, USE BURKE ZIP STRIP OR APPROVED EQUAL. FILL WITH SEALANT AS REQ'D.
 6. SEE PLANS FOR SLAB JOINT LOCATIONS. UNLESS NOTED OTHERWISE, "SCJ" TO ENCLOSE APPROX. 200 SQ FT MAX (SAW CUTS AT 15'-0" MAX)



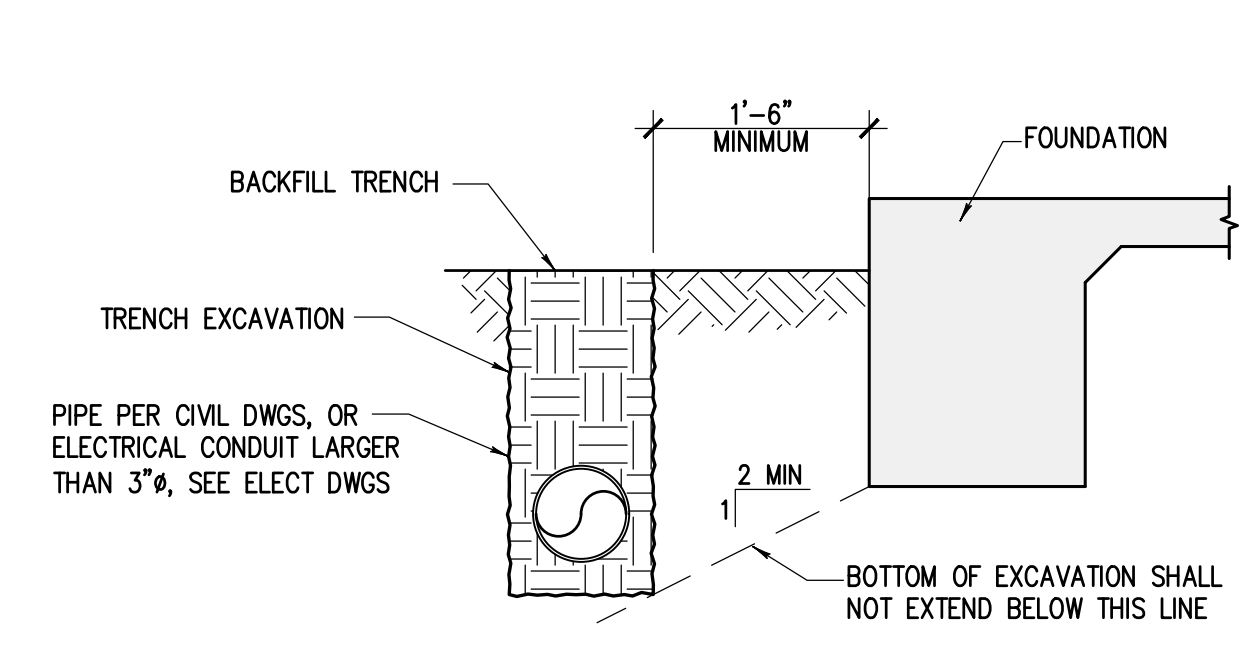
2 S.O.G. CONTROL JOINTS
S3.1 SCALE: NONE



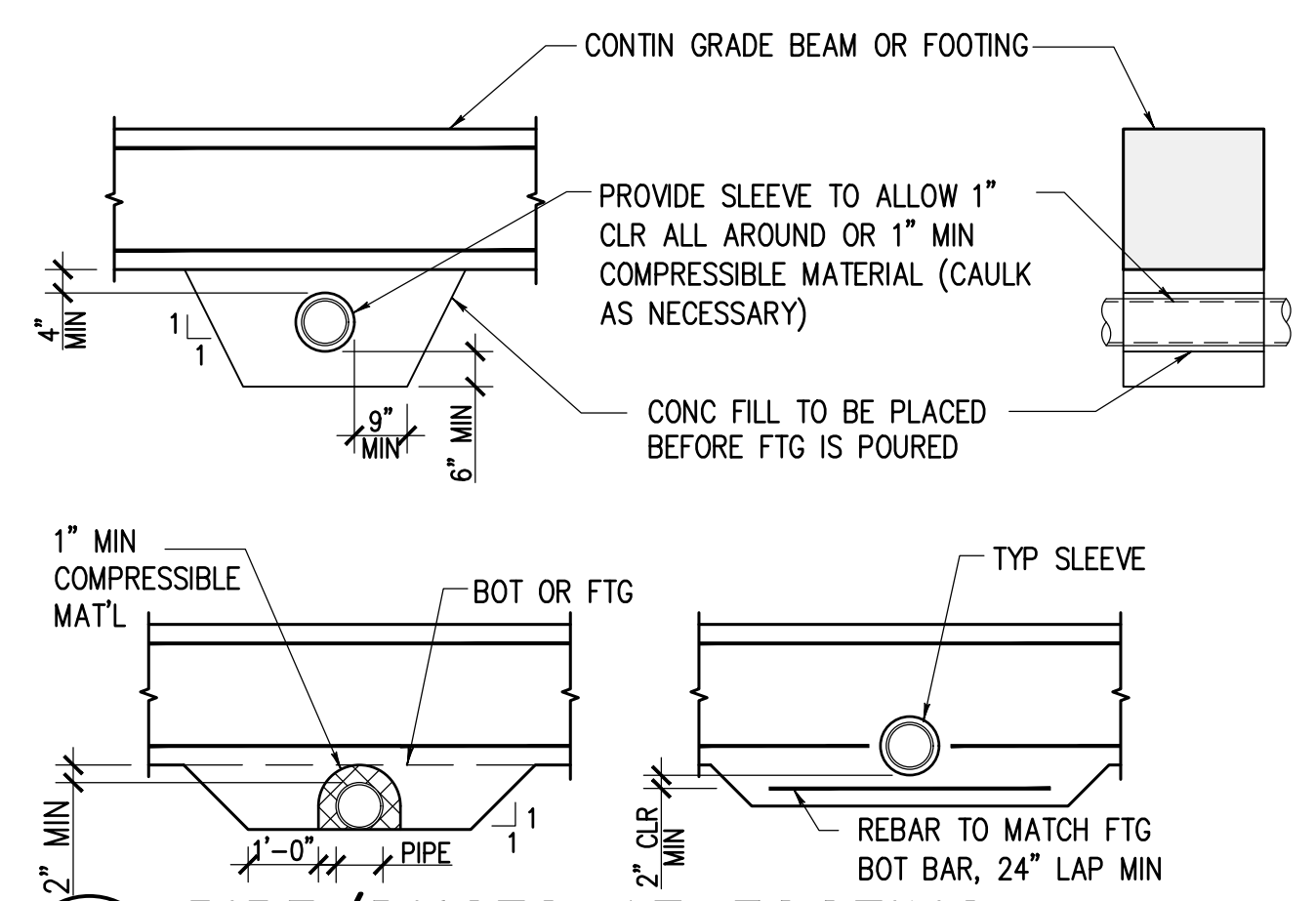
3 TYPICAL EDGE OF SLAB
S3.1 SCALE: 1"=1'-0"



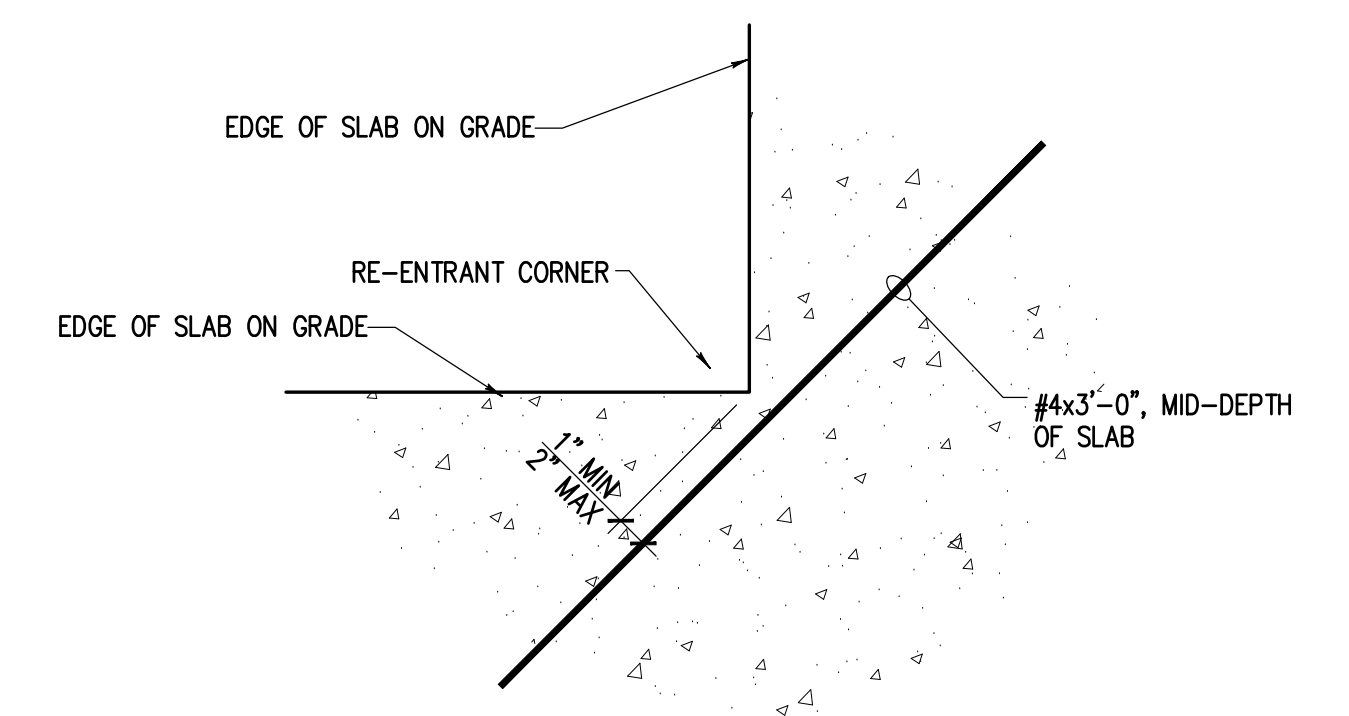
4 TYPICAL SLAB ON GRADE
S3.1 SCALE: 1"=1'-0"



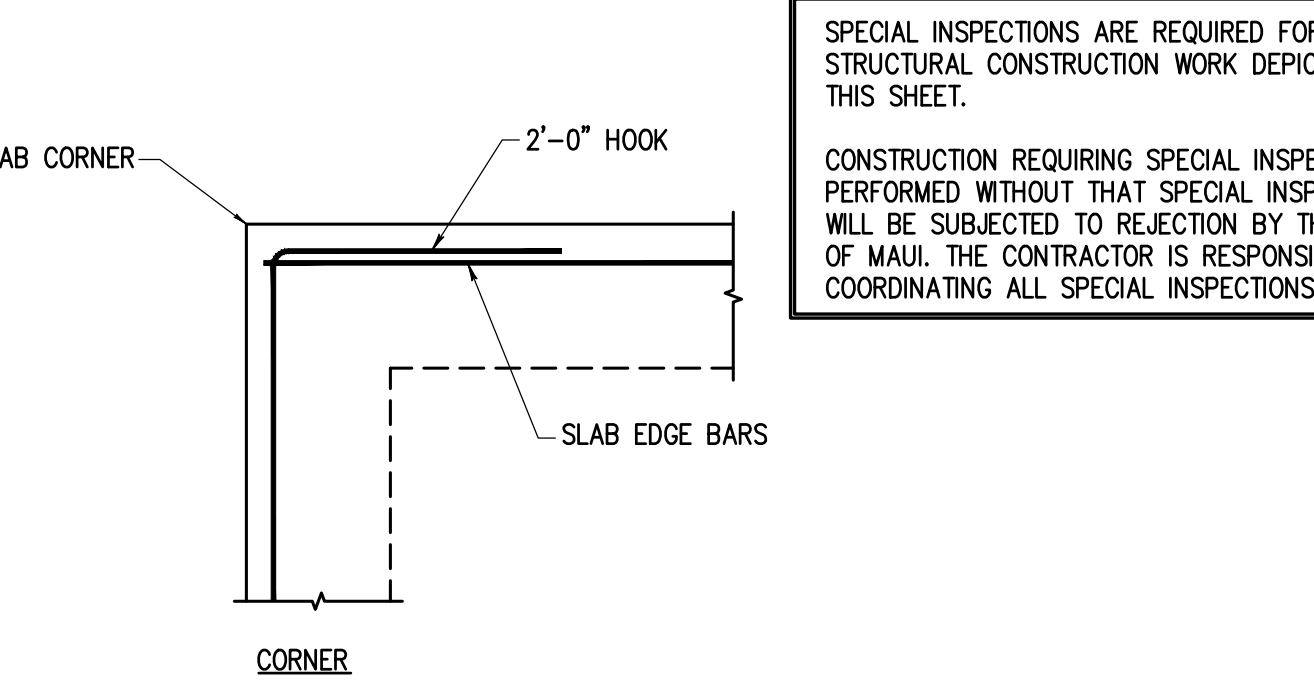
5 PIPE TRENCH AT FOOTING
S3.1 SCALE: 3/4"=1'-0"



6 PIPE/DUCTS AT FOOTING
S3.1 SCALE: NONE

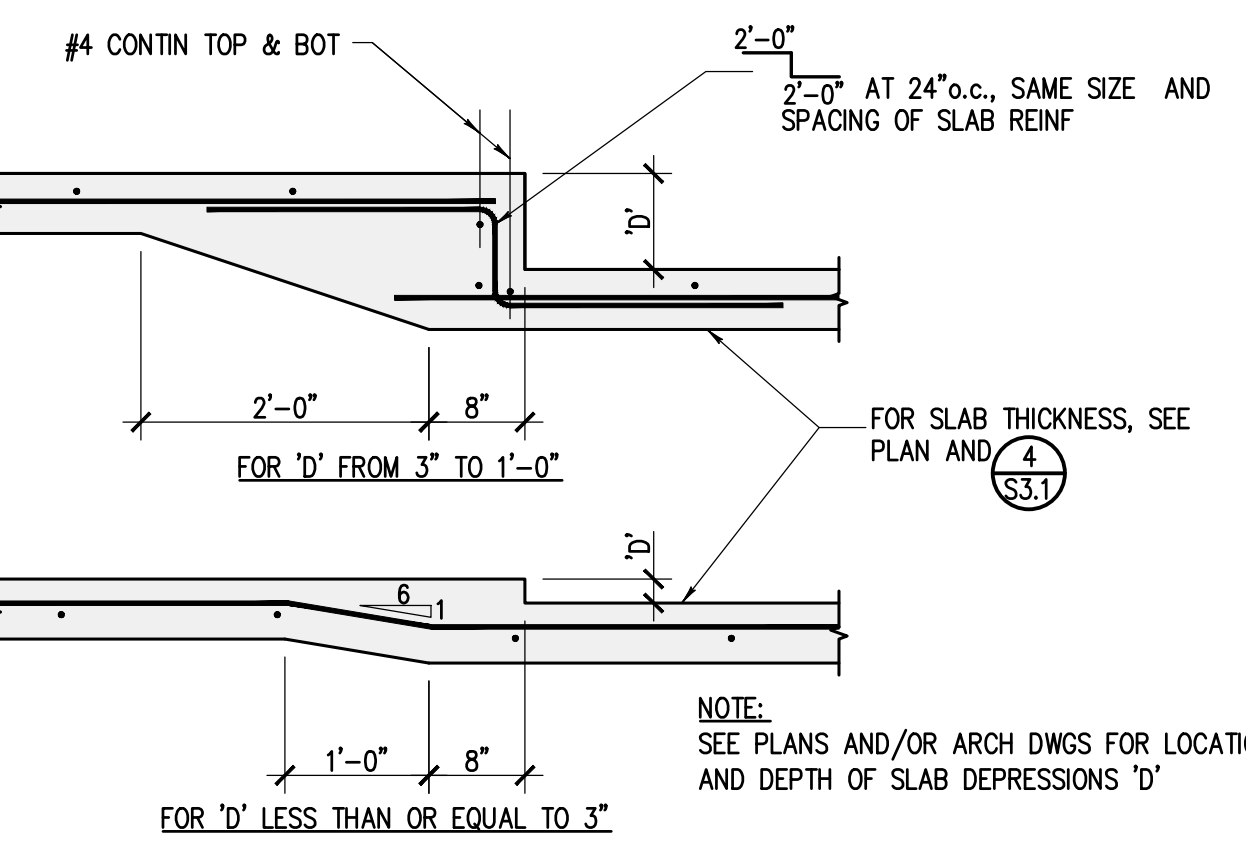


7 REINFORCEMENT AT RE-ENTRANT CORNERS, PLAN DETAIL
S3.1 SCALE: NONE



8 TYPICAL SLAB EDGE BAR AT CORNER.
S3.1 SCALE: NONE

NOTE:
 CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-IN AND OTHER HAZARDS UNTIL ALL BACKFILL IS COMPLETED. BACKFILL PER SPECIFICATIONS

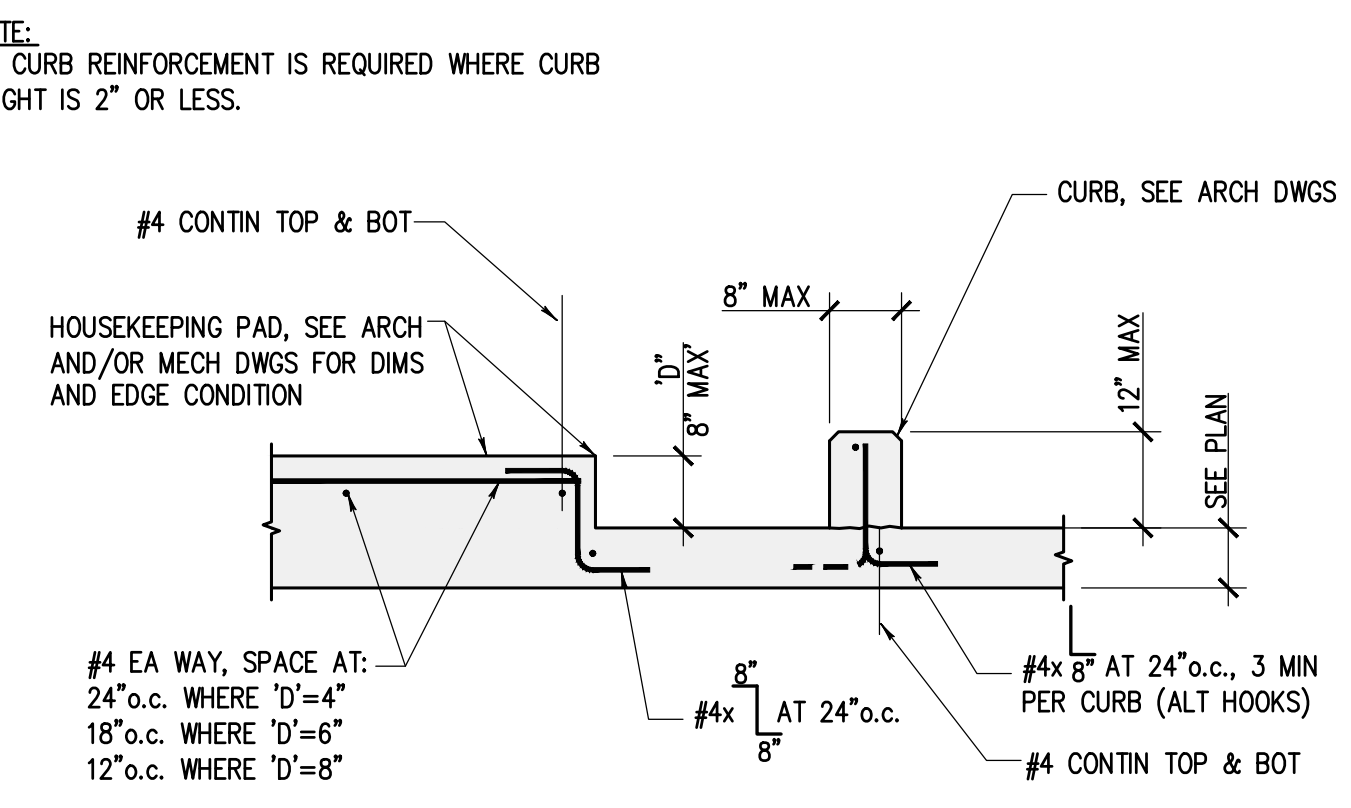
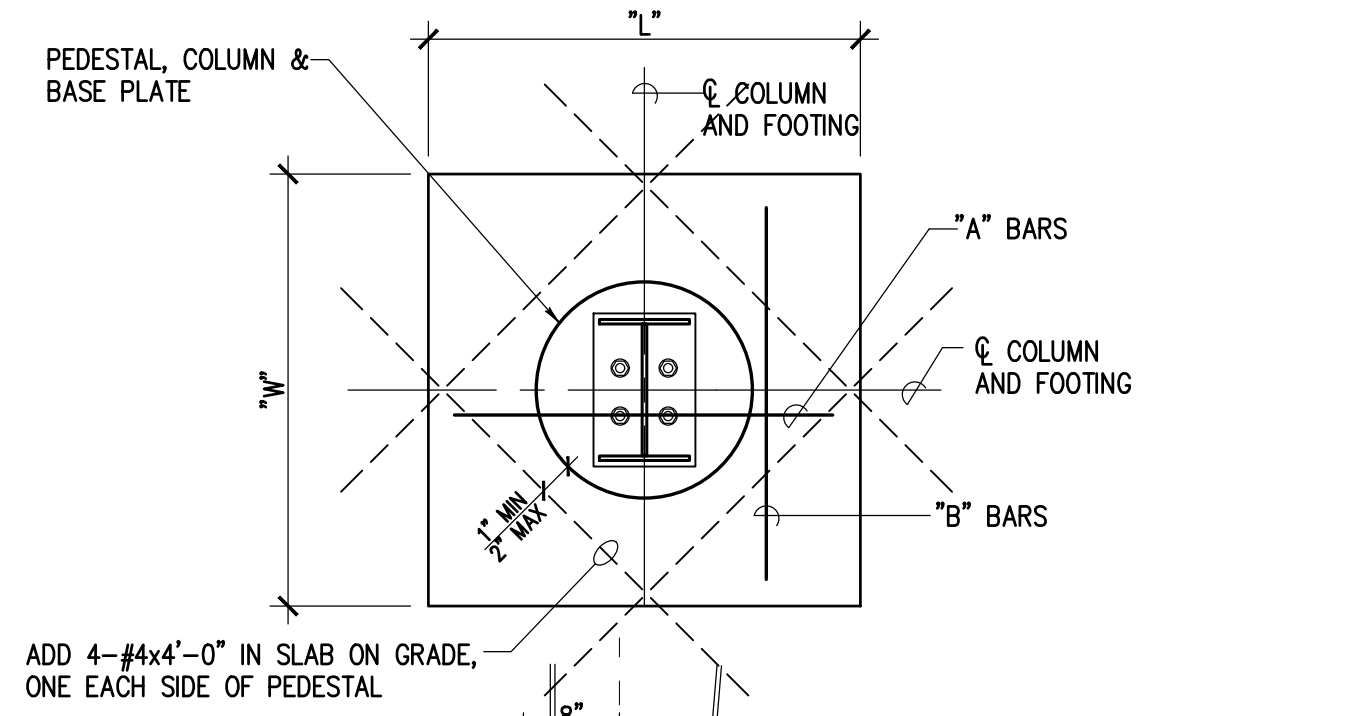


9 TYPICAL SLAB DEPRESSIONS
S3.1 SCALE: NONE

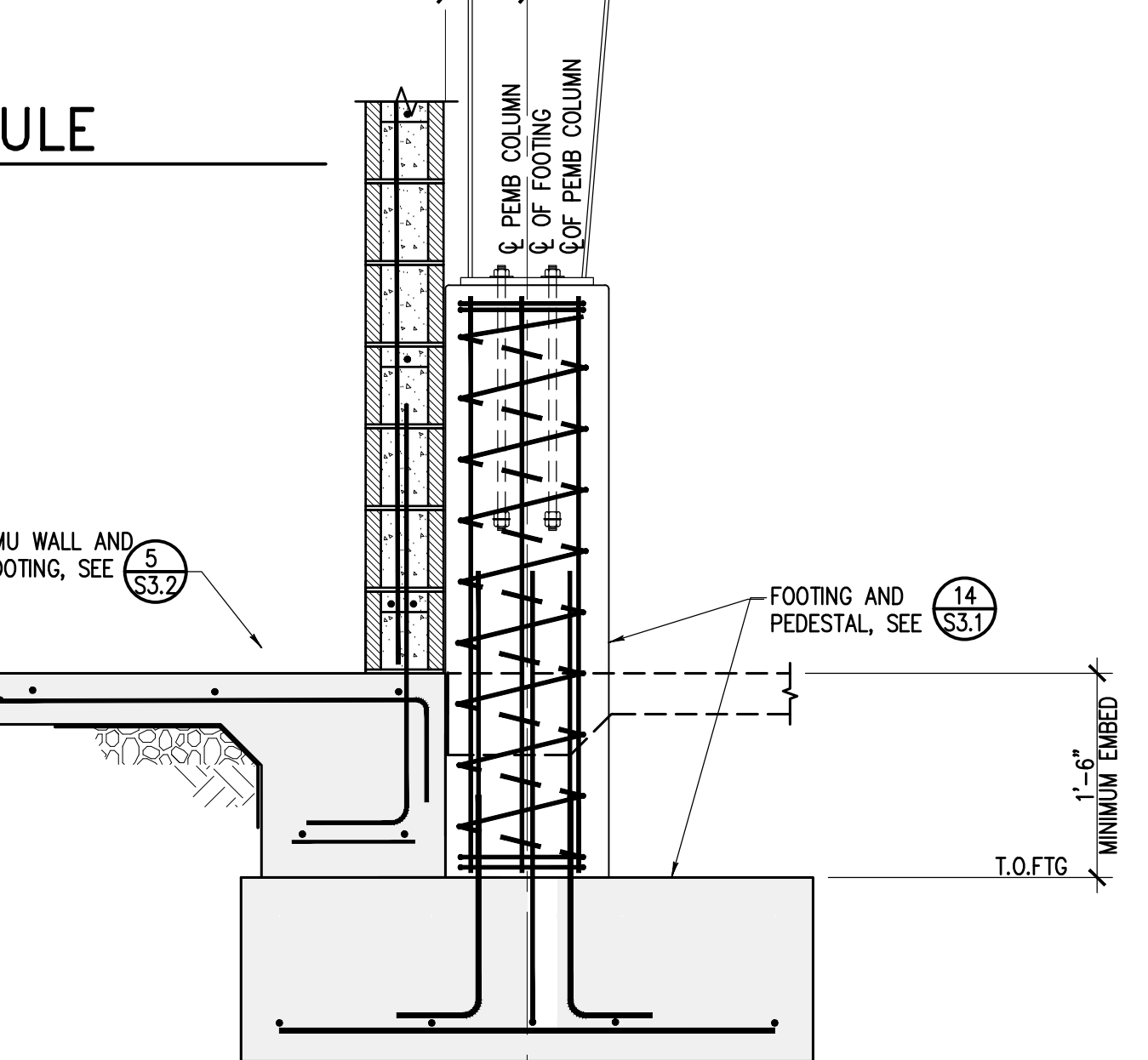
MARK	SIZE		REIN. T&B		SEE DETAIL
	L x W	T*	'A' BARS	'B' BARS	
F-4.0	4'-0" x 4'-0"	18"	4-#5	4-#5	14/S3.1
F-8.0	8'-0" x 8'-0"	24"	6-#5	6-#5	14/S3.1

1. * T DENOTES MINIMUM FOOTING THICKNESS.

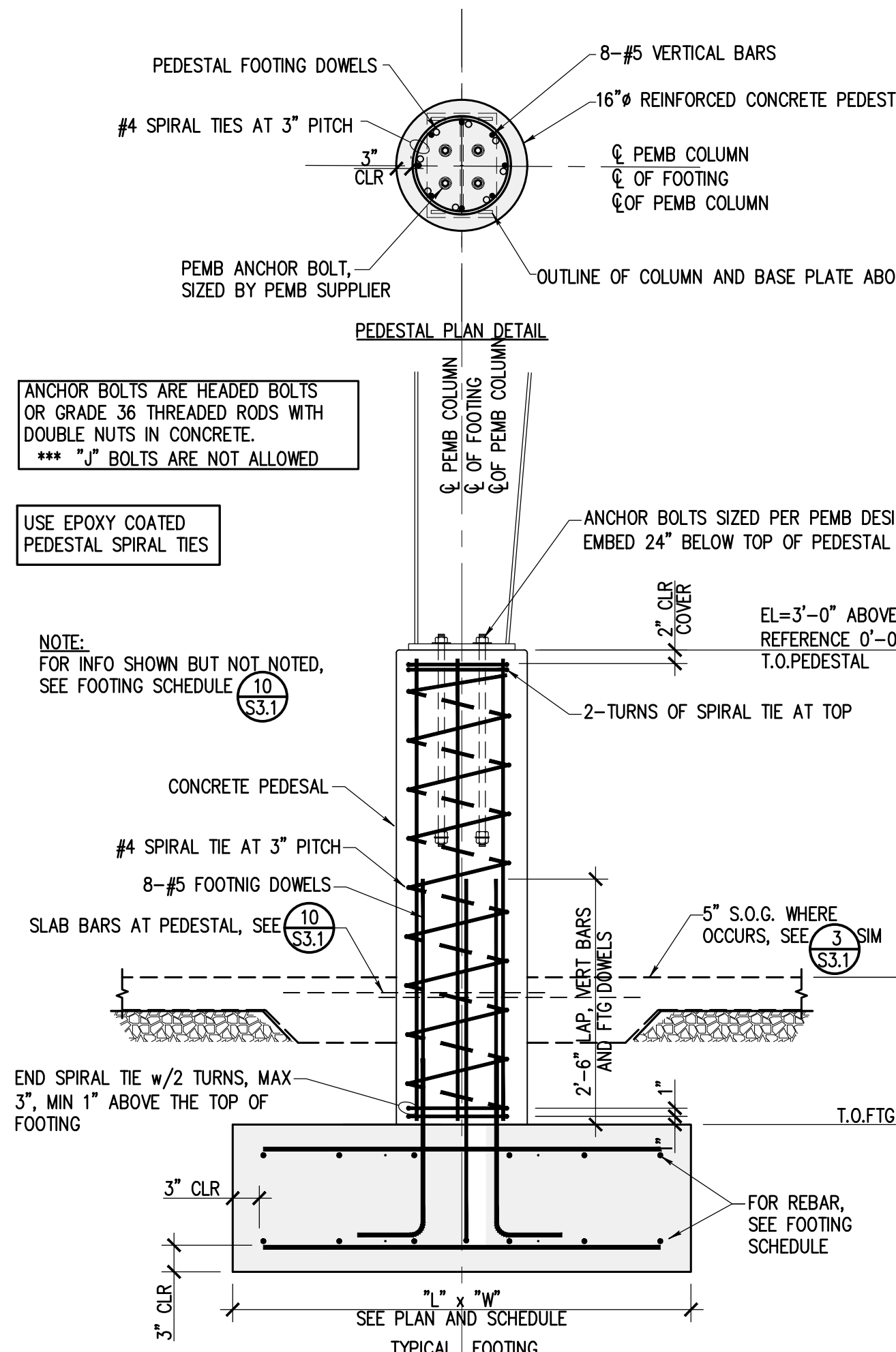
10 FOOTING SCHEDULE
S3.1 SCALE: NONE



12 PLAN DETAIL
S3.1 SCALE: 3/4"=1'-0"



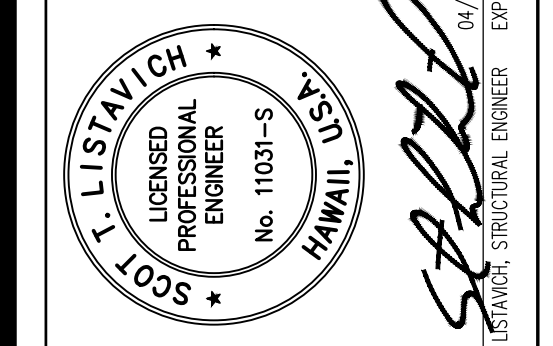
13 FOUNDATION DETAIL
S3.1 SCALE: 3/4"=1'-0"



14 TYPICAL COLUMN FOOTING
S3.1 SCALE: 3/4"=1'-0"

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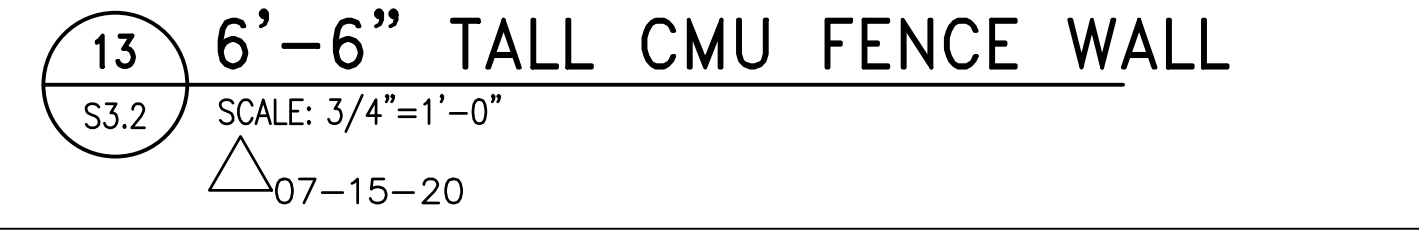
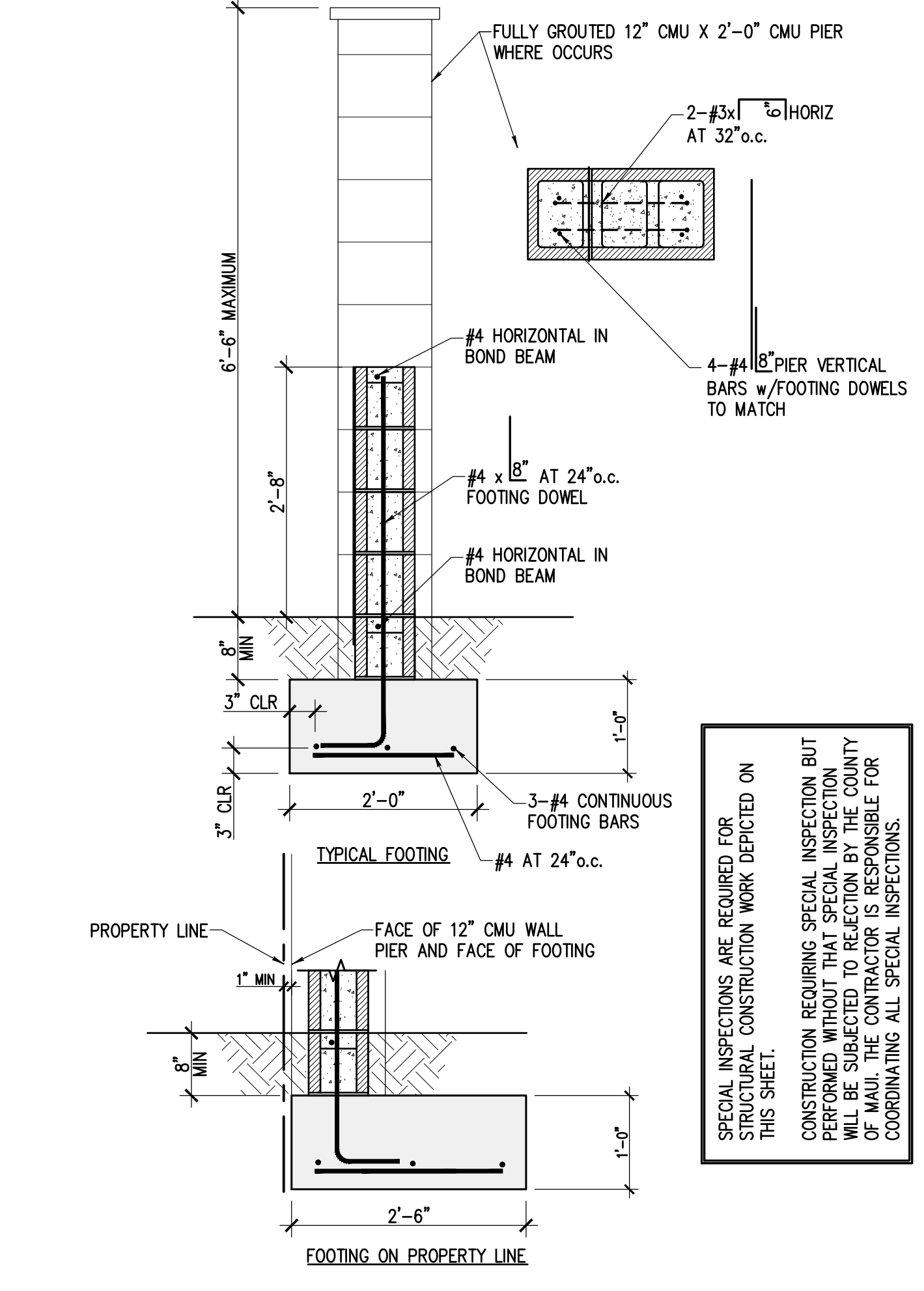
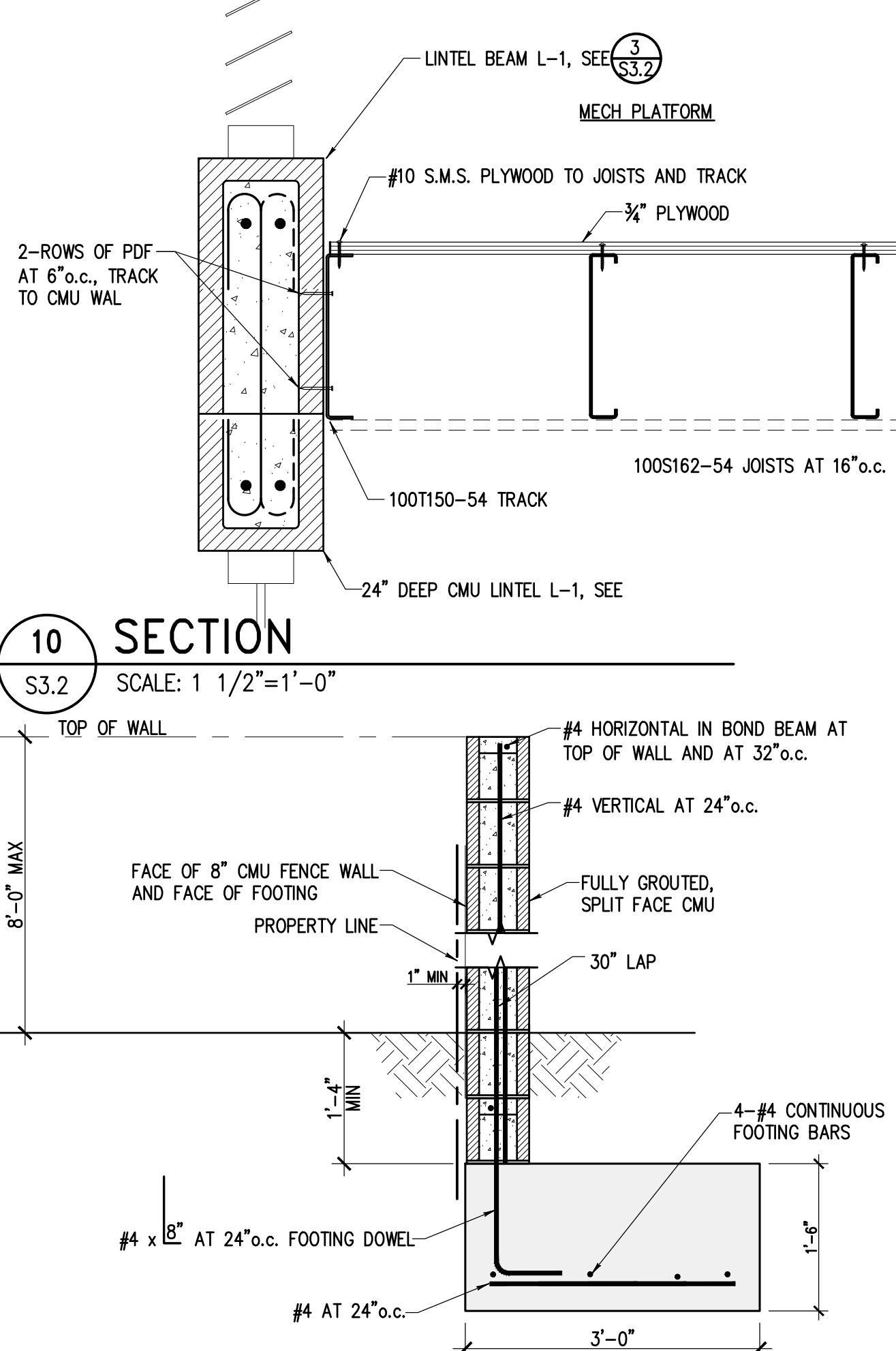
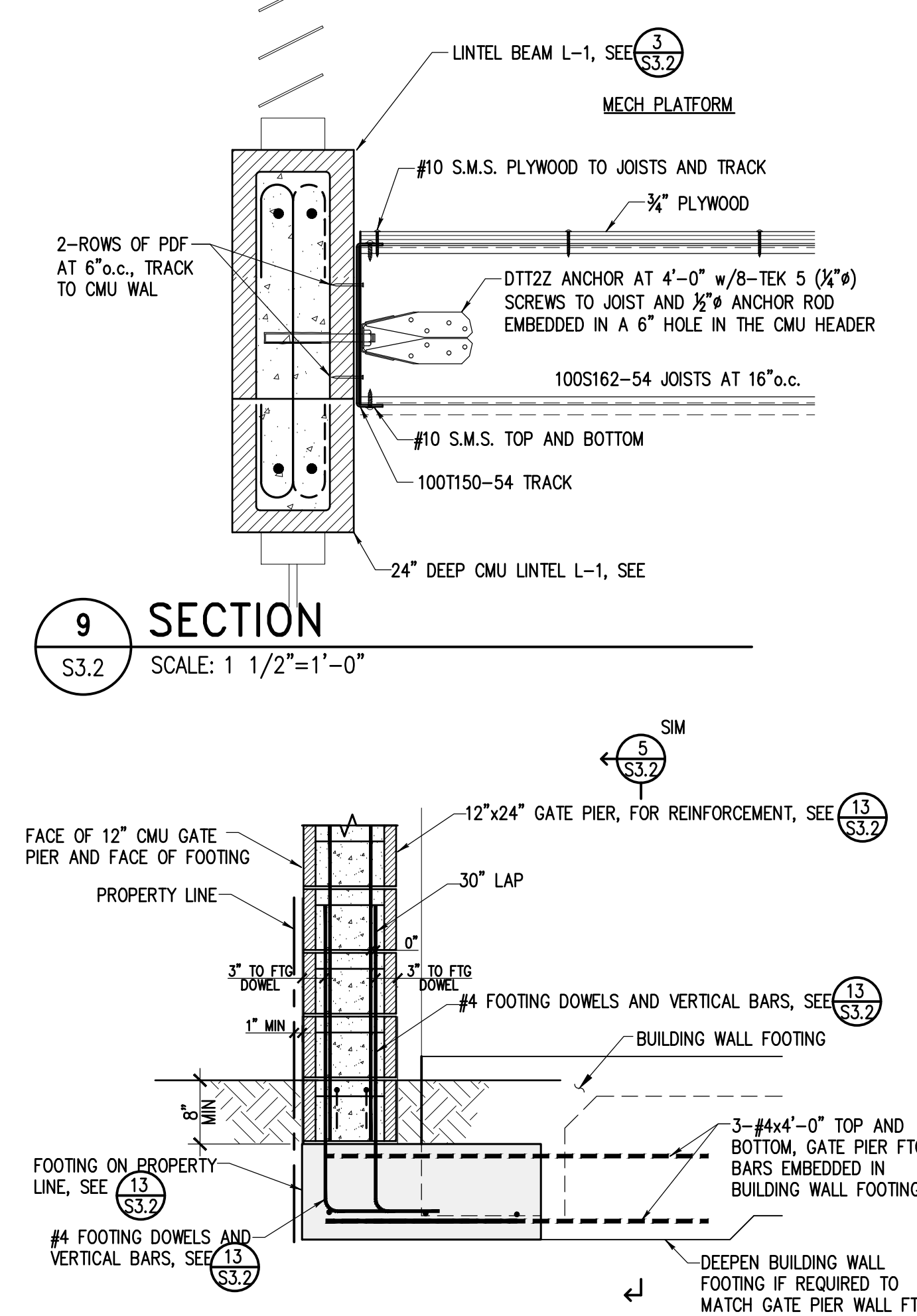
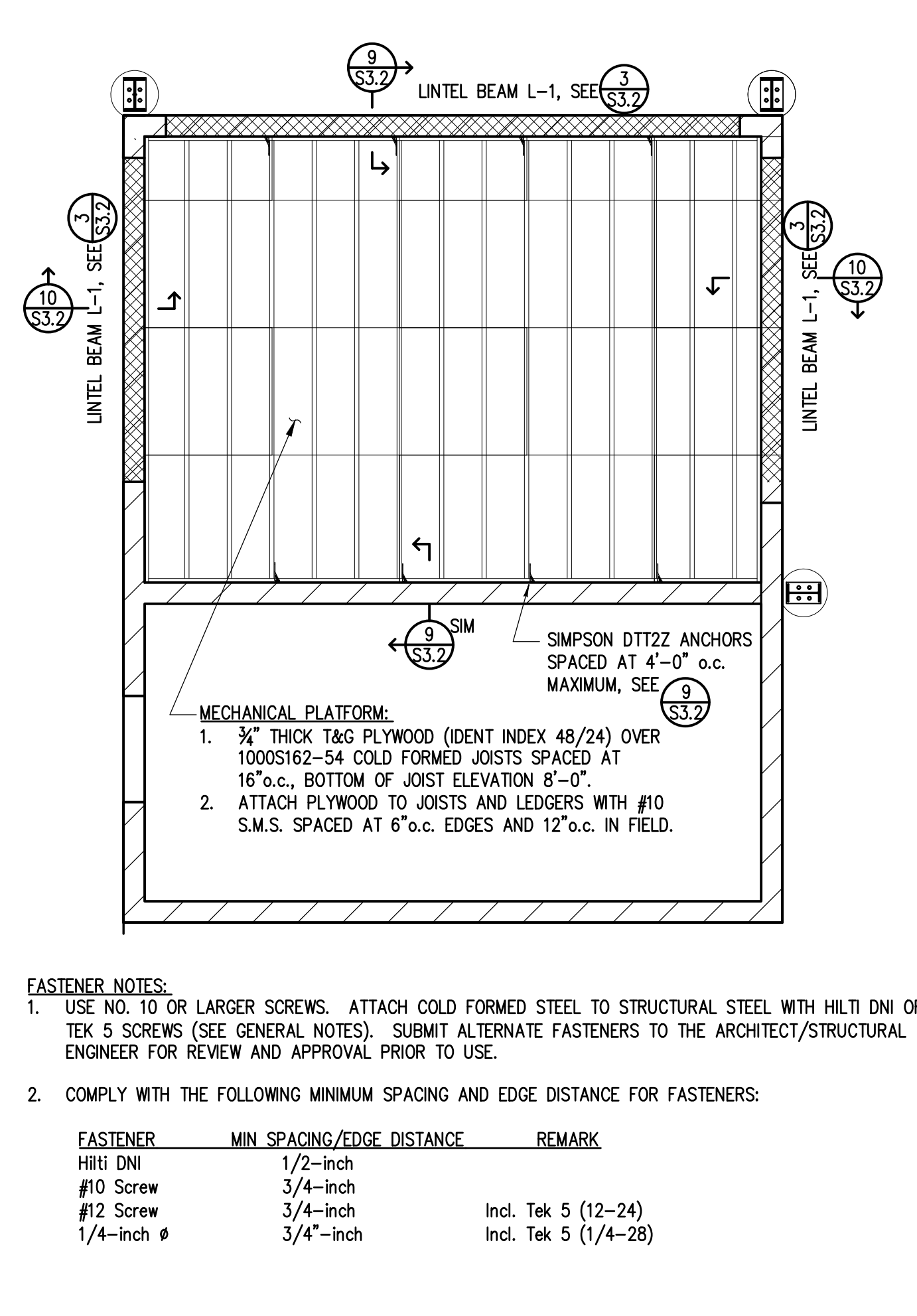
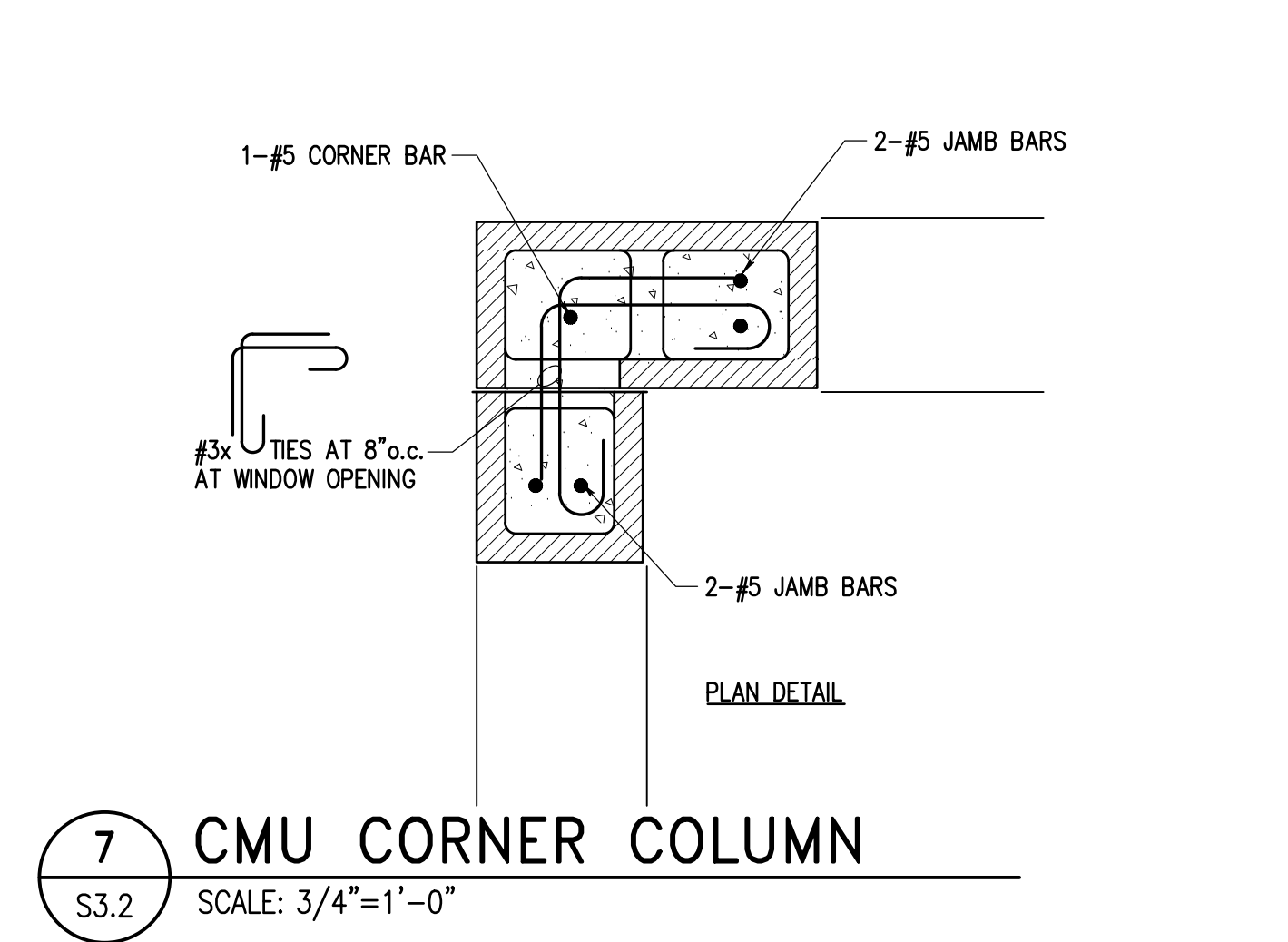
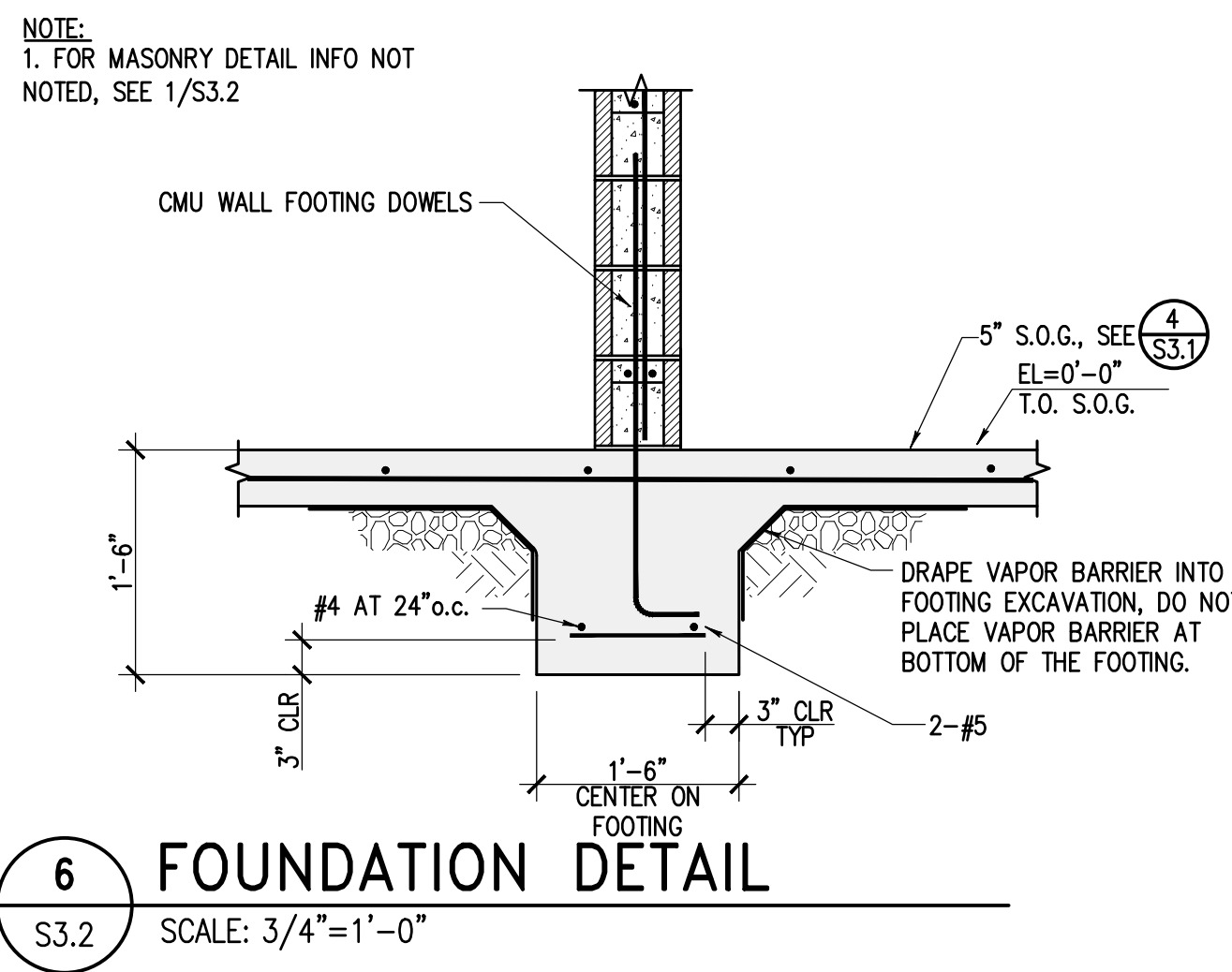
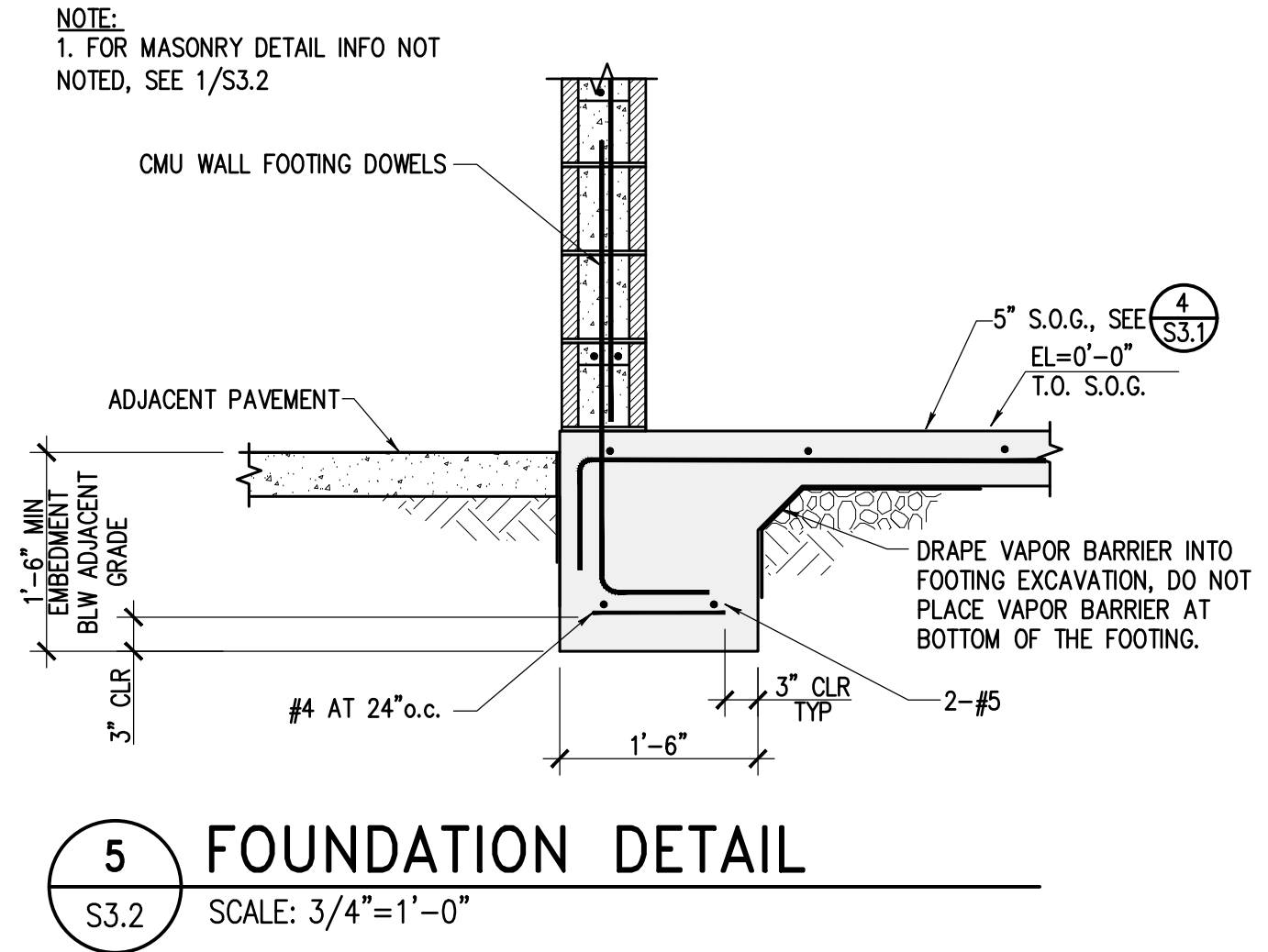
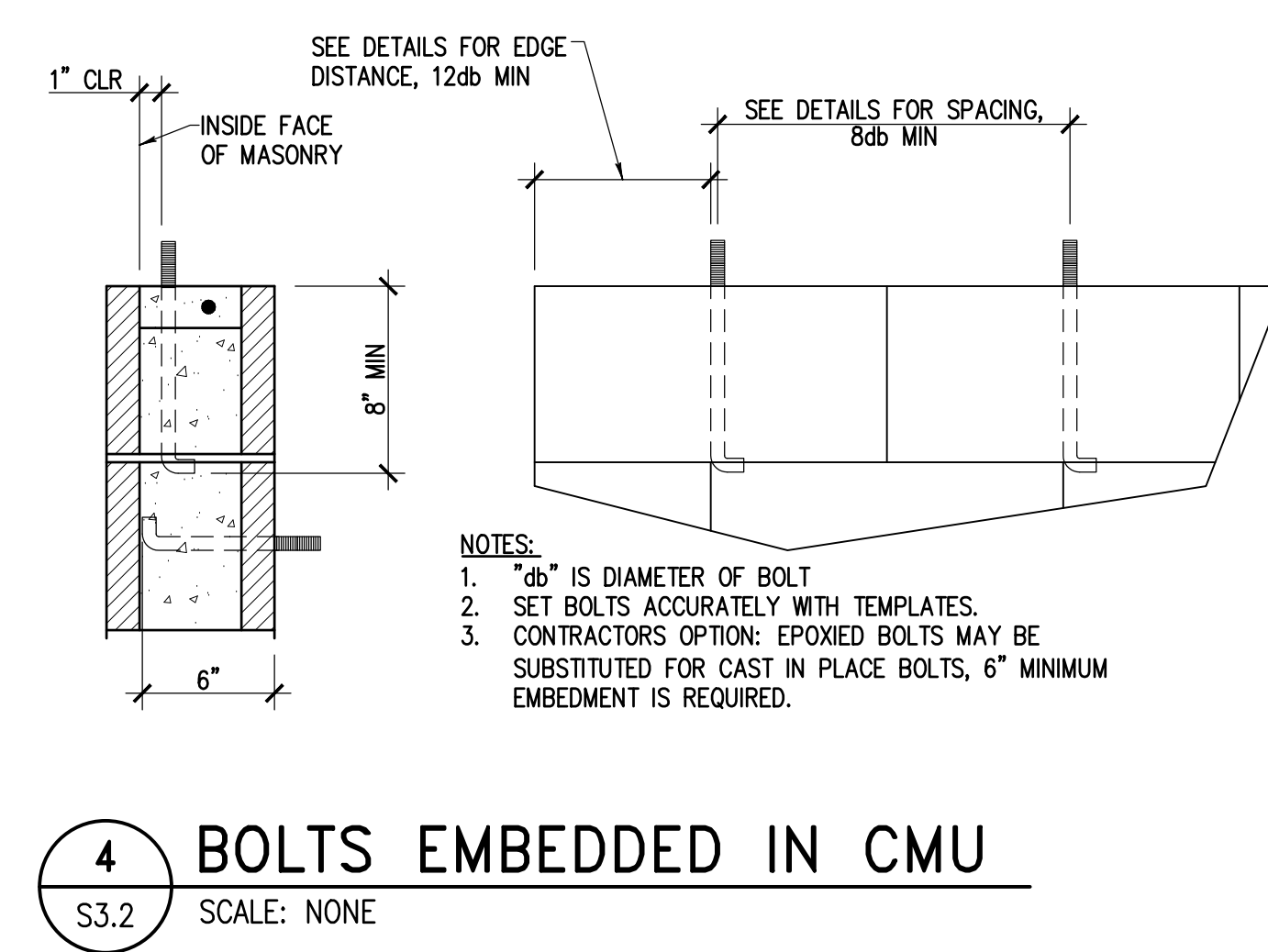
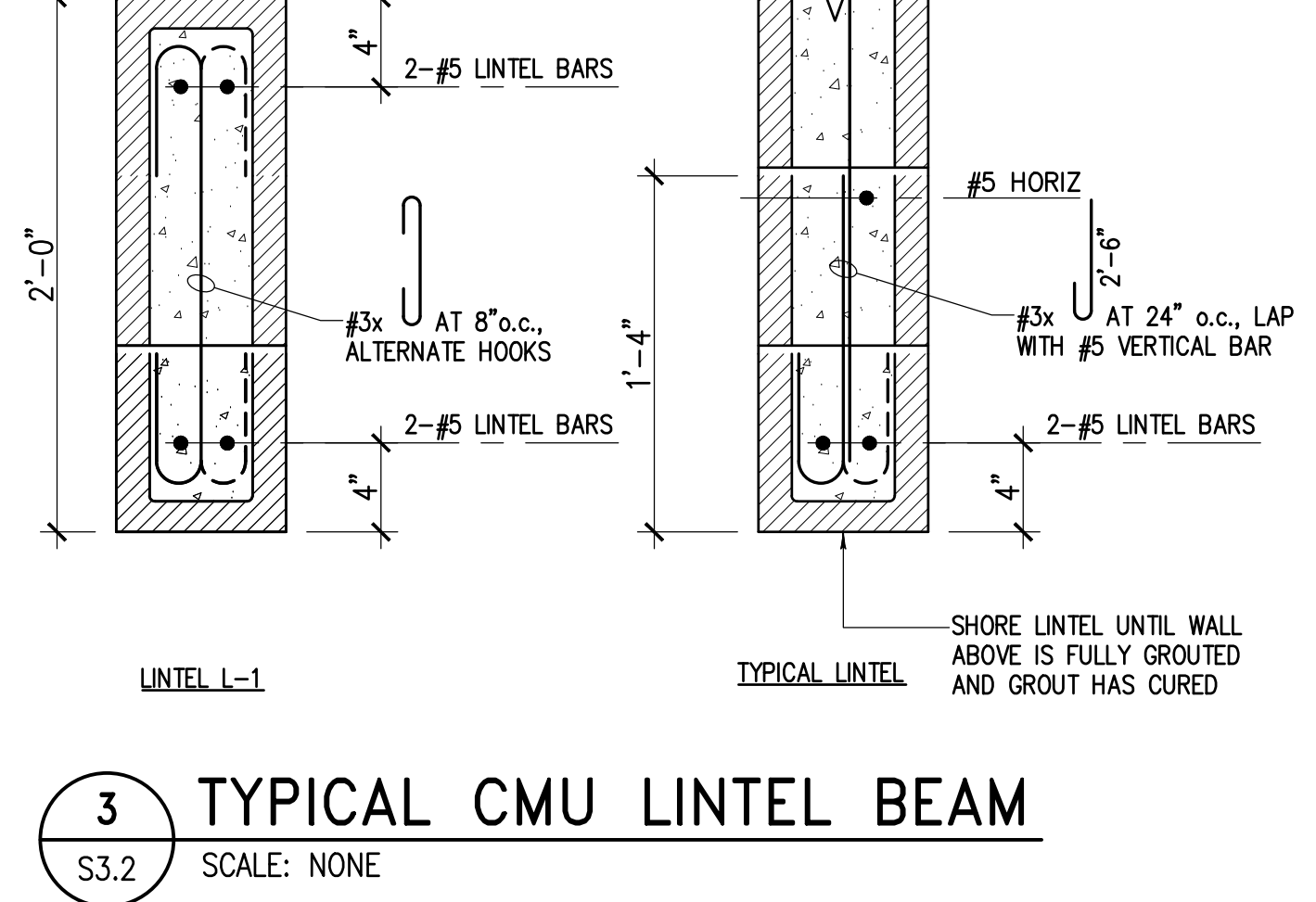
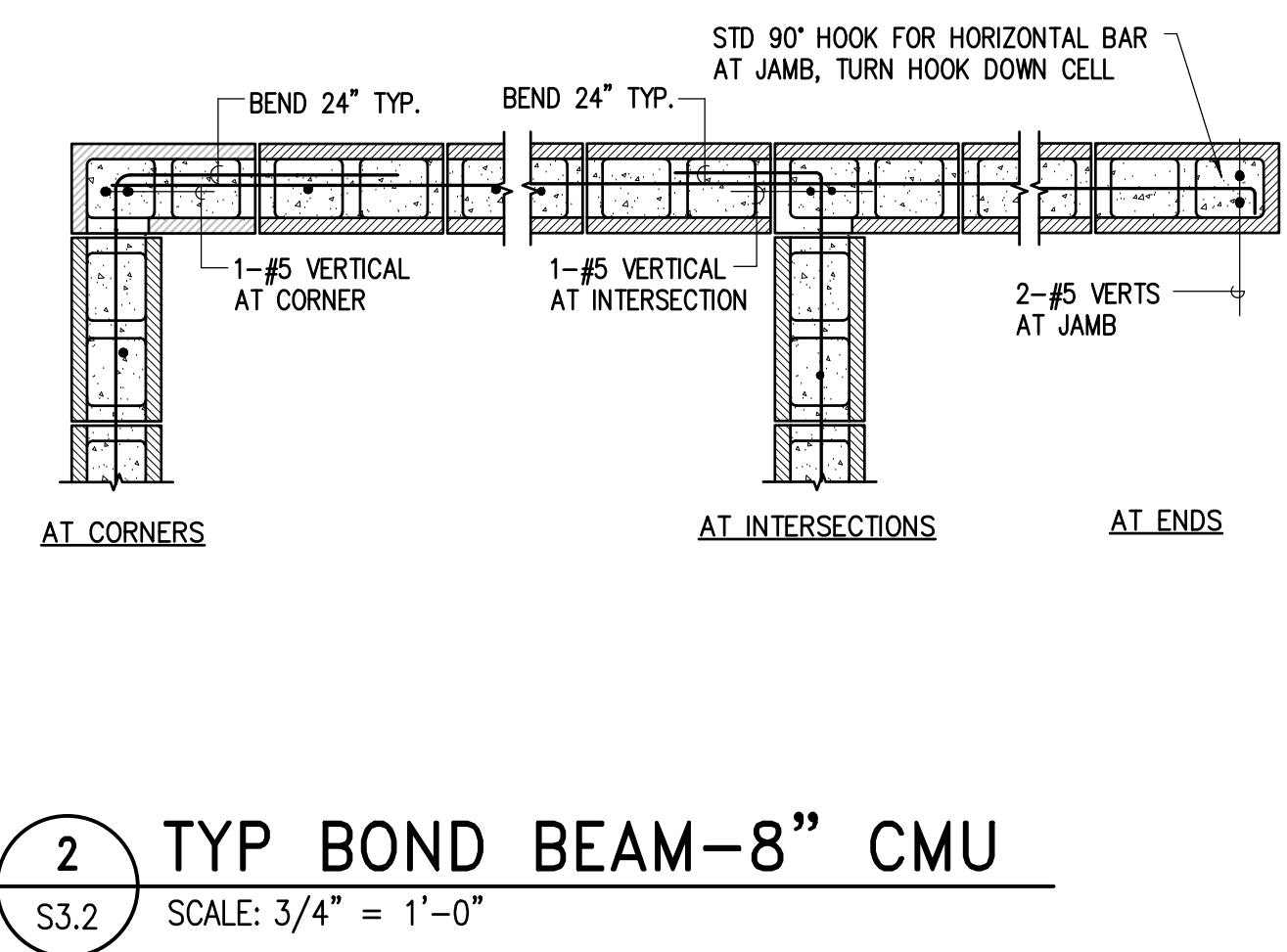
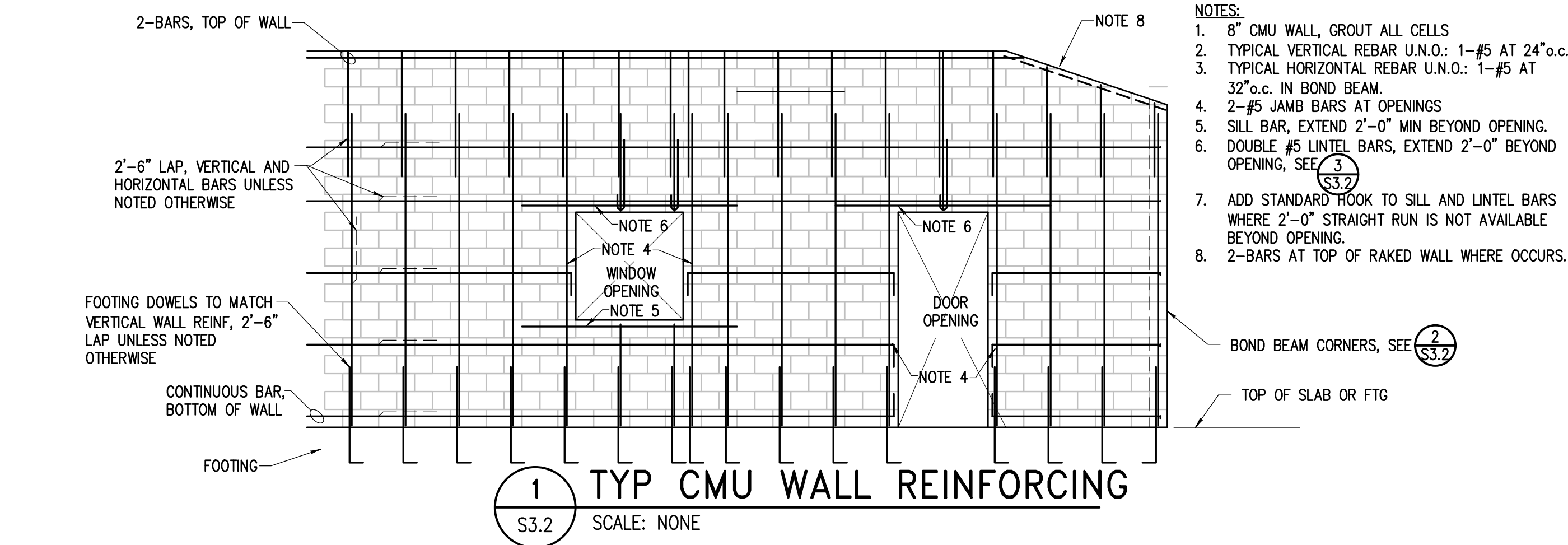
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STRUCTURAL DETAILS

SCOT LISTAVICH
LICENSED PROFESSIONAL
ENGINEER
No. 11001-S
HAWAII, U.S.A.

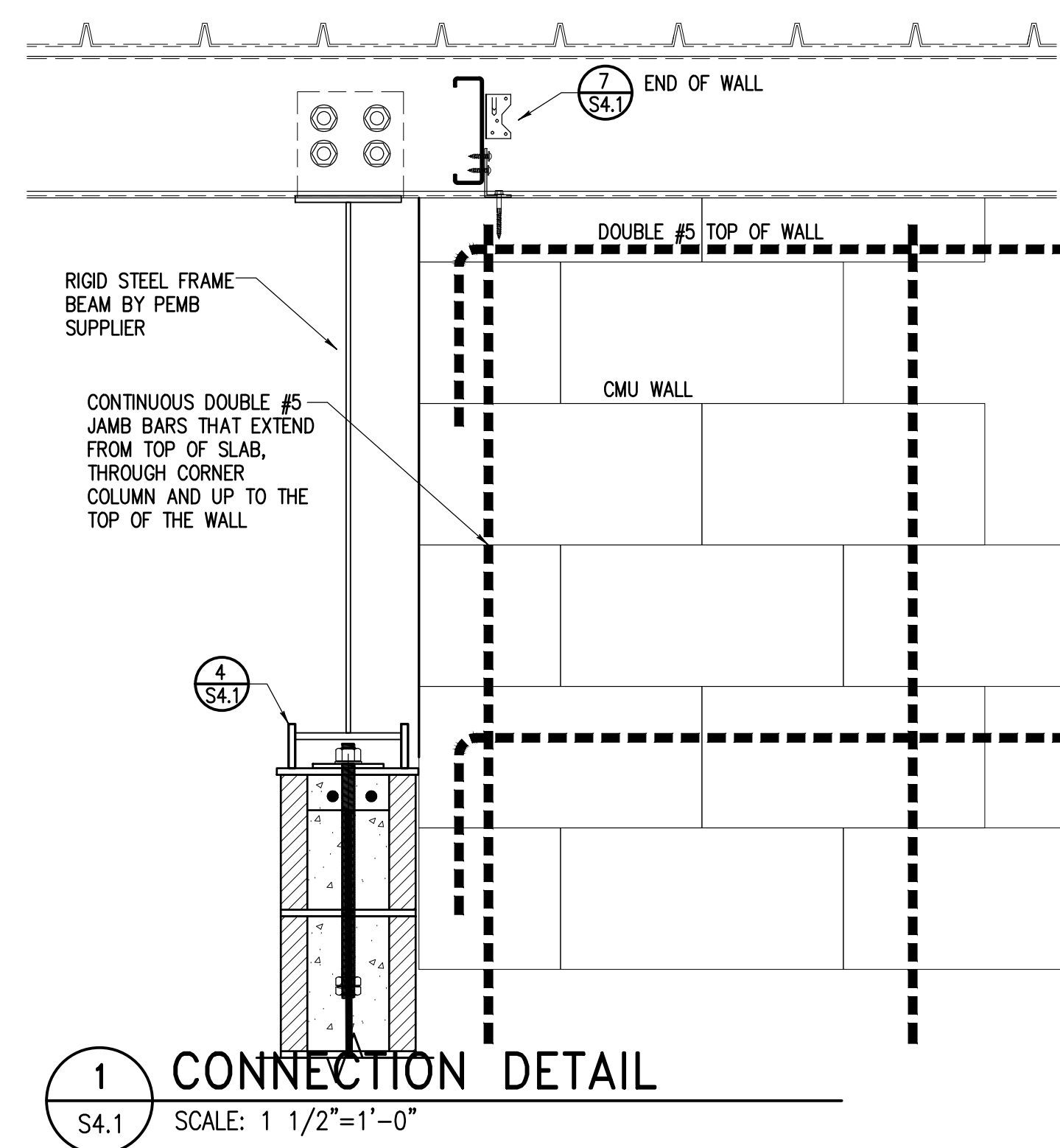
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 AUGUST 7, 2020 BID SET

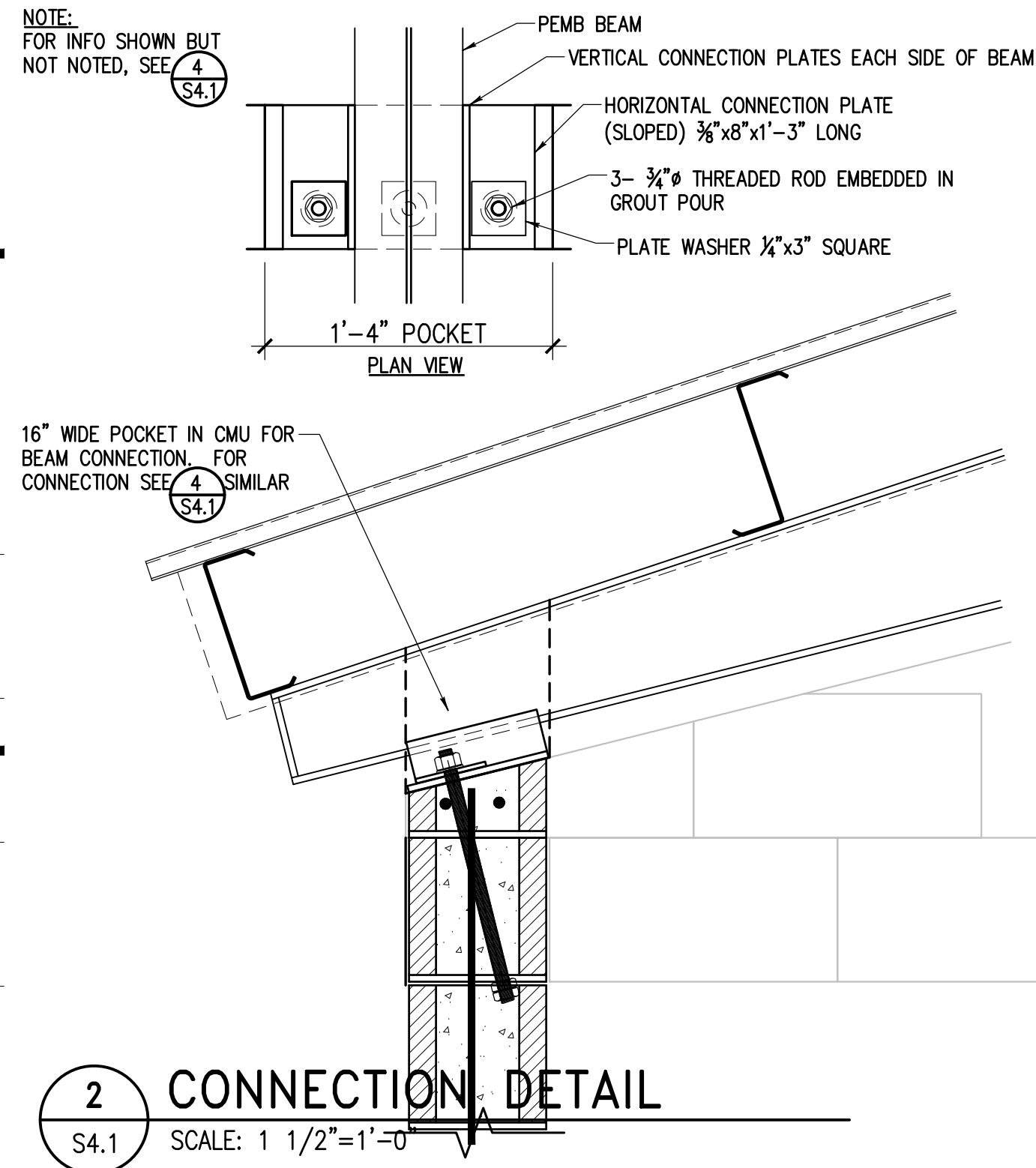
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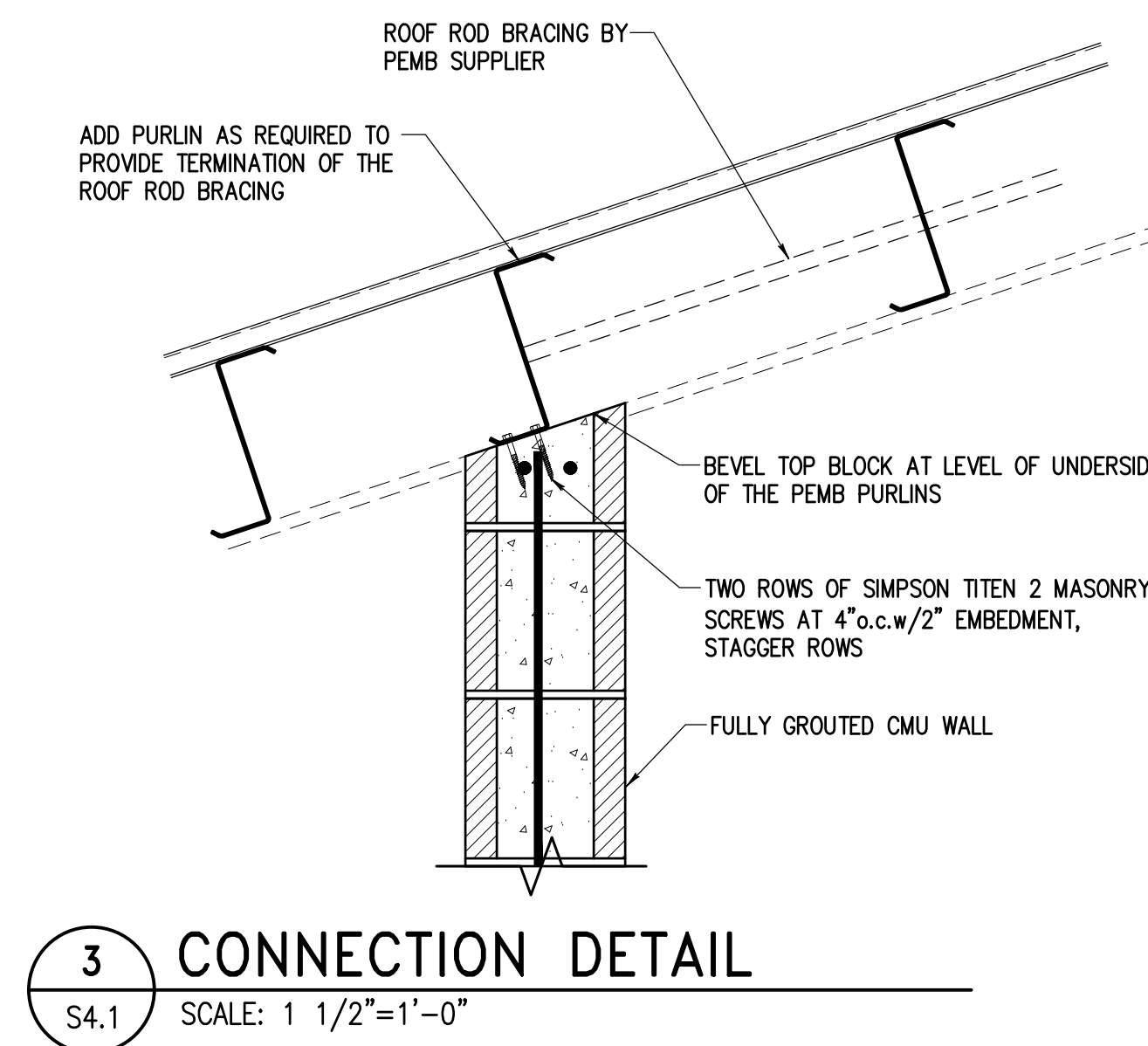
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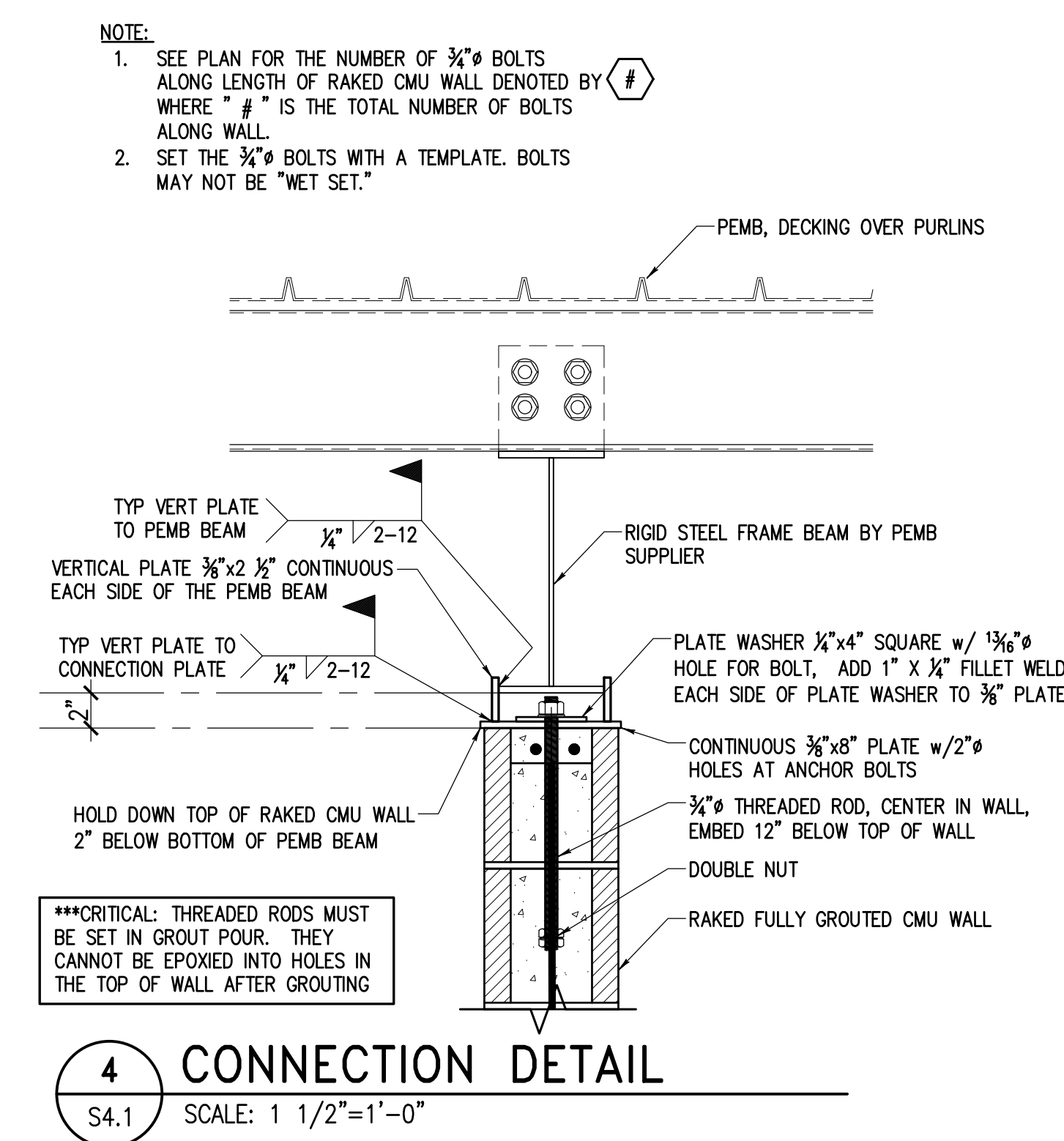
1 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"



2 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"



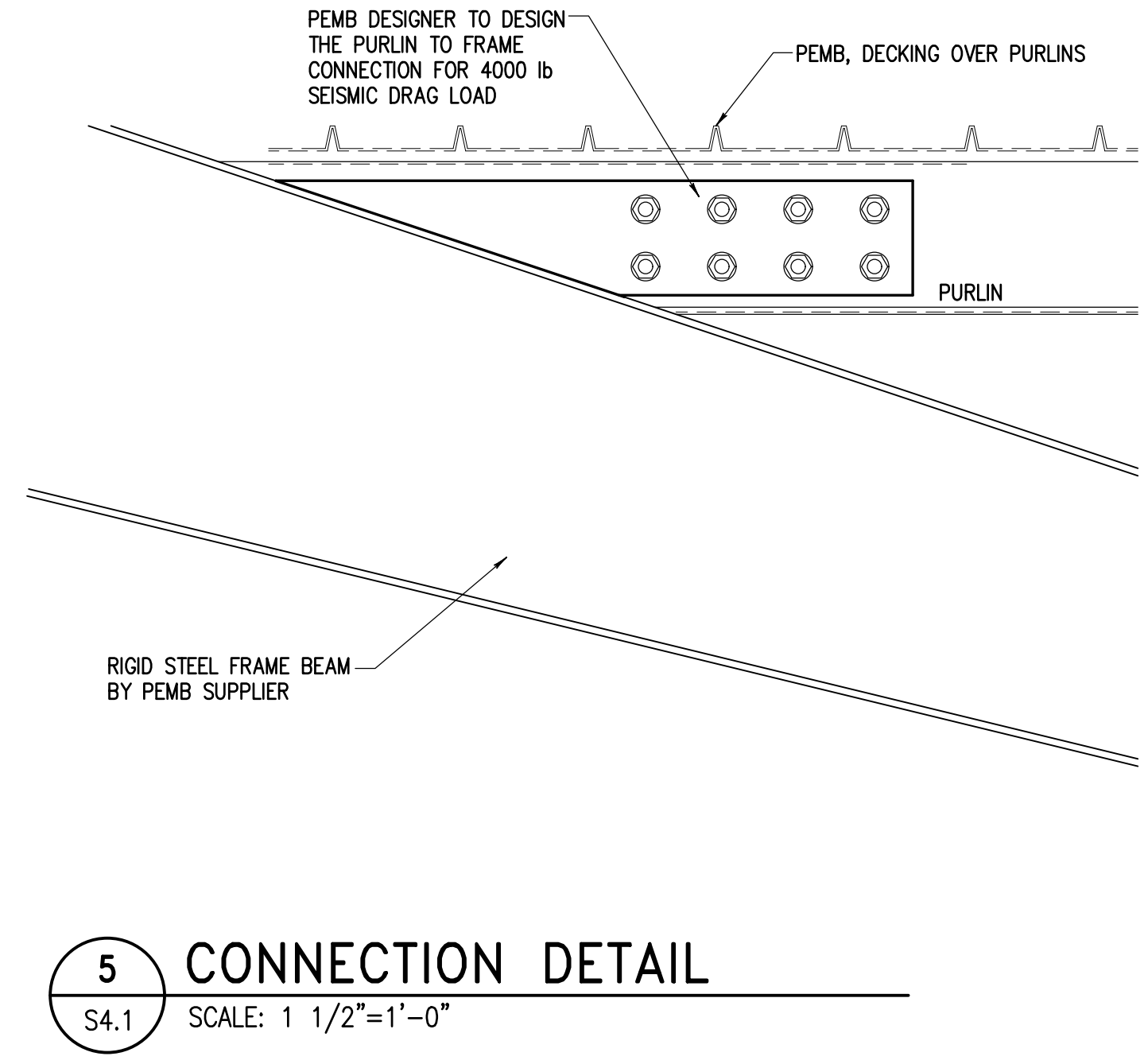
3 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"



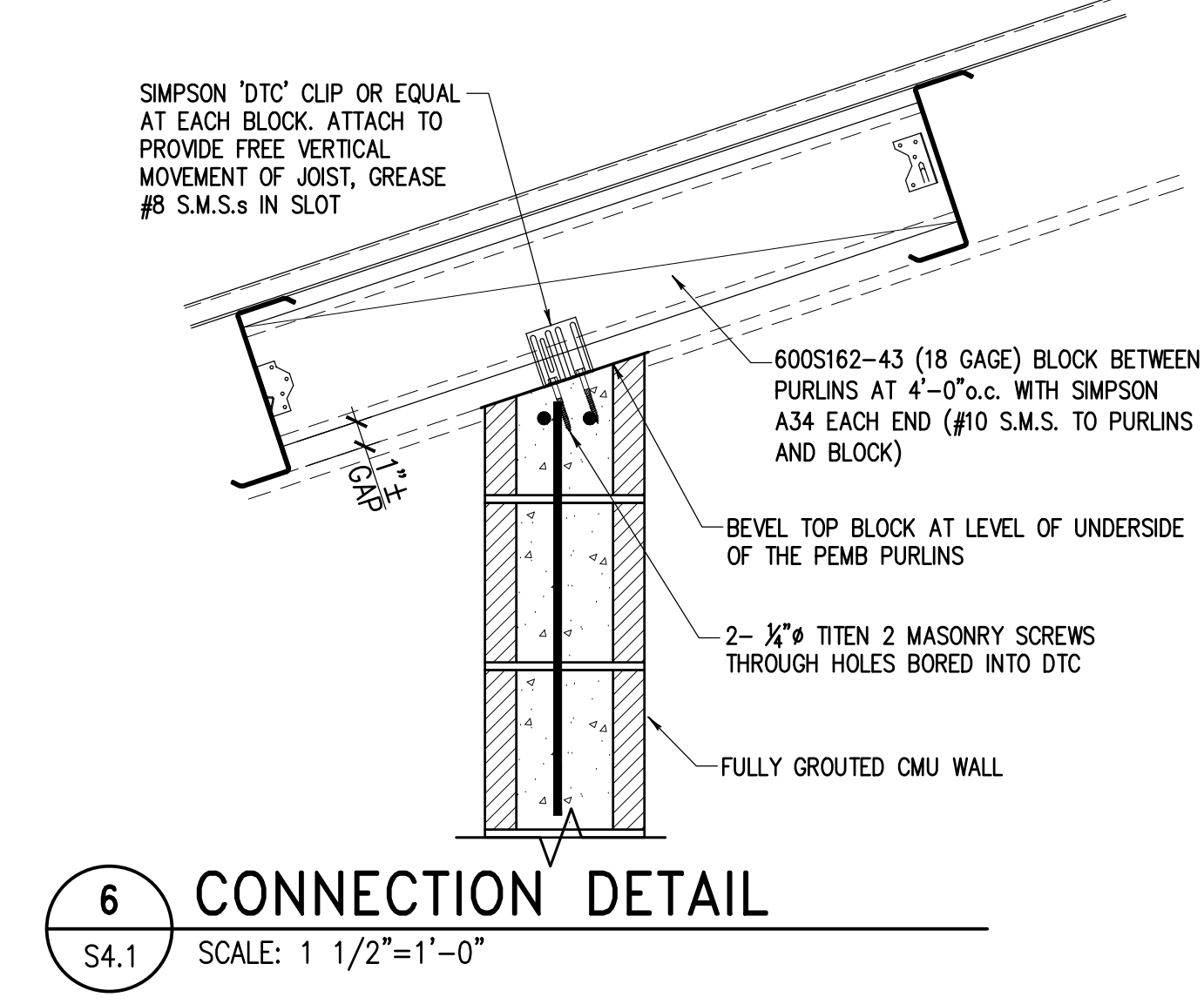
4 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"

***CRITICAL: THREADED RODS MUST BE SET IN GROUT POUR. THEY CANNOT BE EPOXIED INTO HOLES IN THE TOP OF WALL AFTER GROUTING

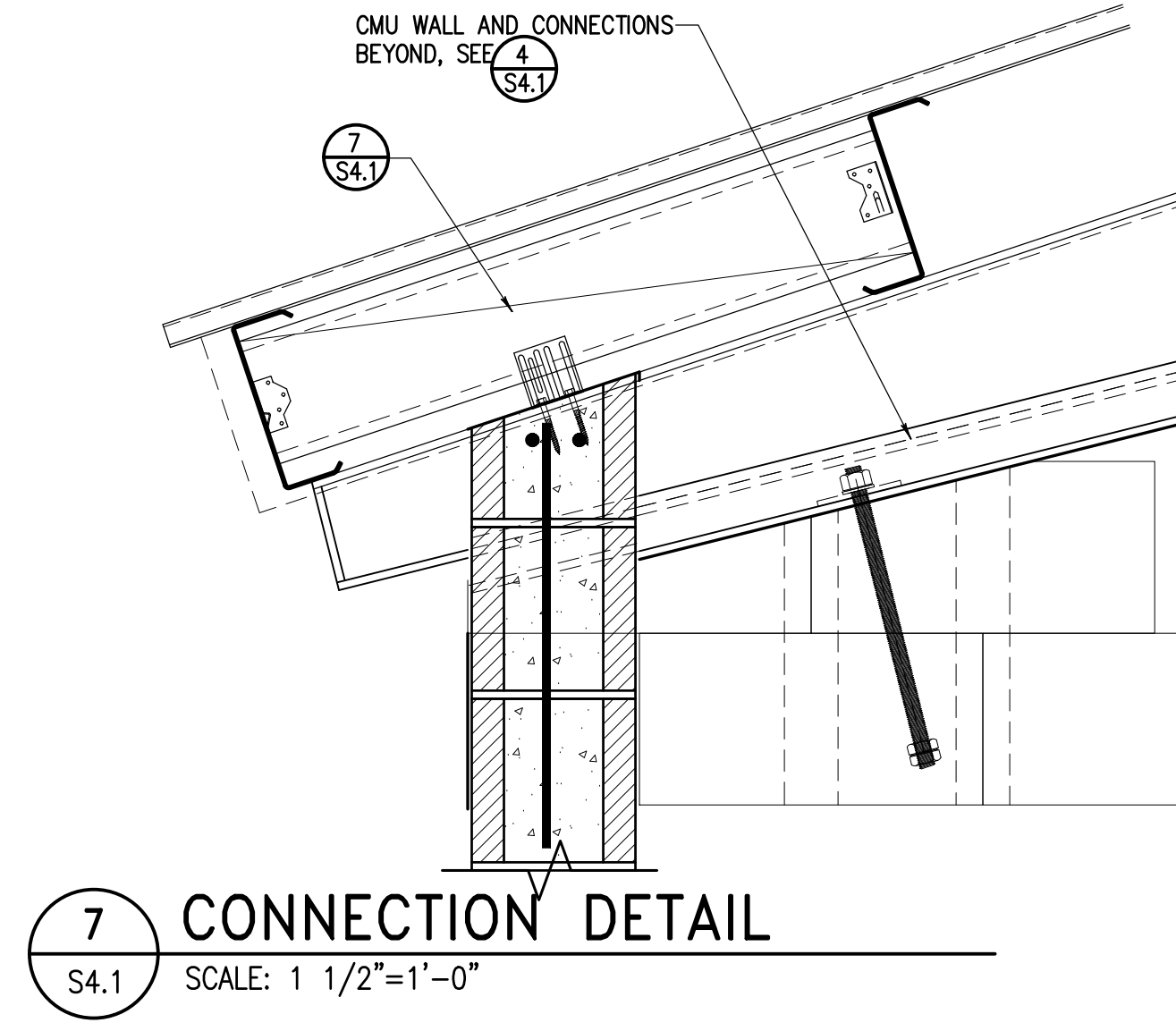
- NOTE:
- SEE PLAN FOR THE NUMBER OF 3/4" BOLTS ALONG LENGTH OF RAKED CMU WALL DENOTED BY # WHERE # IS THE TOTAL NUMBER OF BOLTS ALONG WALL.
 - SET THE 3/4" BOLTS WITH A TEMPLATE. BOLTS MAY NOT BE "WET SET."



5 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"



6 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"



7 CONNECTION DETAIL
S4.1 SCALE: 1 1/2"=1'-0"

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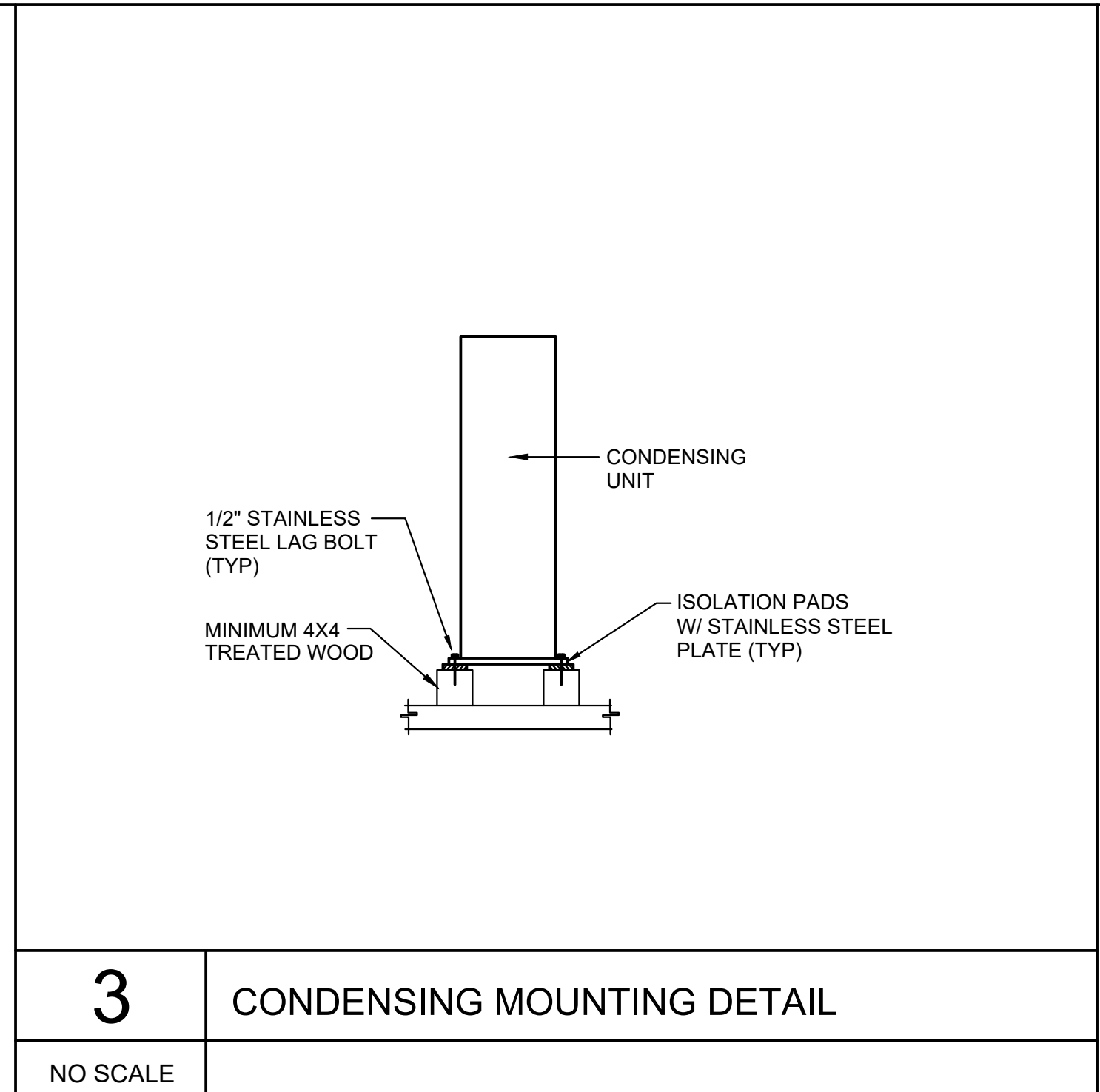


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ROOF LEVEL DETAILS

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 SLE PROJECT NO.: 1845
 DATE: JANUARY, 2020



3	CONDENSING MOUNTING DETAIL
NO SCALE	

EQUIPMENT SCHEDULE

VRF AIR CONDITIONING SYSTEM

CASSETTE FAN COIL UNIT:

IN-CEILING DUCTLESS FAN COIL UNITS SHALL BE LOW PROFILE (10.1") WITH DIRECT EXPANSION COPPER TUBE/ALUMINUM FINS COATED COOLING COIL, INSULATED ZINC COATED CABINET WITH FULLY INSULATED DISCHARGE AND INLET GRILLES OF HIGH-IMPACT NON-METALLIC MATERIAL, HINGED INLET GRILLE, AND OUTSIDE AIR INLET, STATICALLY AND DYNAMICALLY BALANCED MULTI-BLADE FAN, DC INVERTER DRIVEN FAN MOTOR WITH MOTOR DRIVEN VERTICAL SWEEP AND LOUVERS, PMV VALVE, PIPING CONNECTORS, WIRED LOCAL ELECTRICAL MICROPROCESSOR CONTROL SYSTEM, INTEGRAL TEMPERATURE SENSING, CONDENSATE PUMP WITH 26" LIFT, HANGING BRACKETS AND RUBBER HANGING ISOLATORS.

FCU NO.	TBTUH	SBTUH	SA CFM	OA CFM	ENT AIR		AMB AIR °F	FAN COIL UNIT			VOLT/PH/CYC	FCU MODEL	REMARKS
					°FDB	°FWB		FLA	MCA	MOCP			
1	24000	---	750	----	80	67	95	0.8	0.332	---	208-230/1/60	CARRIER MMU-AP024H2UL	CASSETTE, 58 LBS. POWERED BY OUTDOOR UNIT

CONDENSING UNITS:

AIR COOLED VRF CONDENSING UNIT COMPLETE WITH VARIABLE SPEED DC INVERTER SCROLL COMPRESSORS, GALVANIZED STEEL WITH POWDER COAT COATED CABINET, DIRECT DRIVEN PROPELLER HORIZONTAL DISCHARGE CONDENSER FAN, PVC COATED WIRE GUARD, COPPER TUBE WITH ALUMINUM FINS CONDENSER COIL, PURON R-410A REFRIGERANT, INTERNAL OVERLOADS, TXV VALVE, AIR GUIDE AND SUPPORT FEET WITH ISOLATION PADS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PROVIDE CORROSION PROTECTION FOR CONDENSER COIL. PROTECT FINNED TUBES WITH BLYGOLD POLUAL COATING. CABINET SURFACES FOR AIR CONDITIONING UNIT SHALL BE COATED WITH AMERON PSX 700.

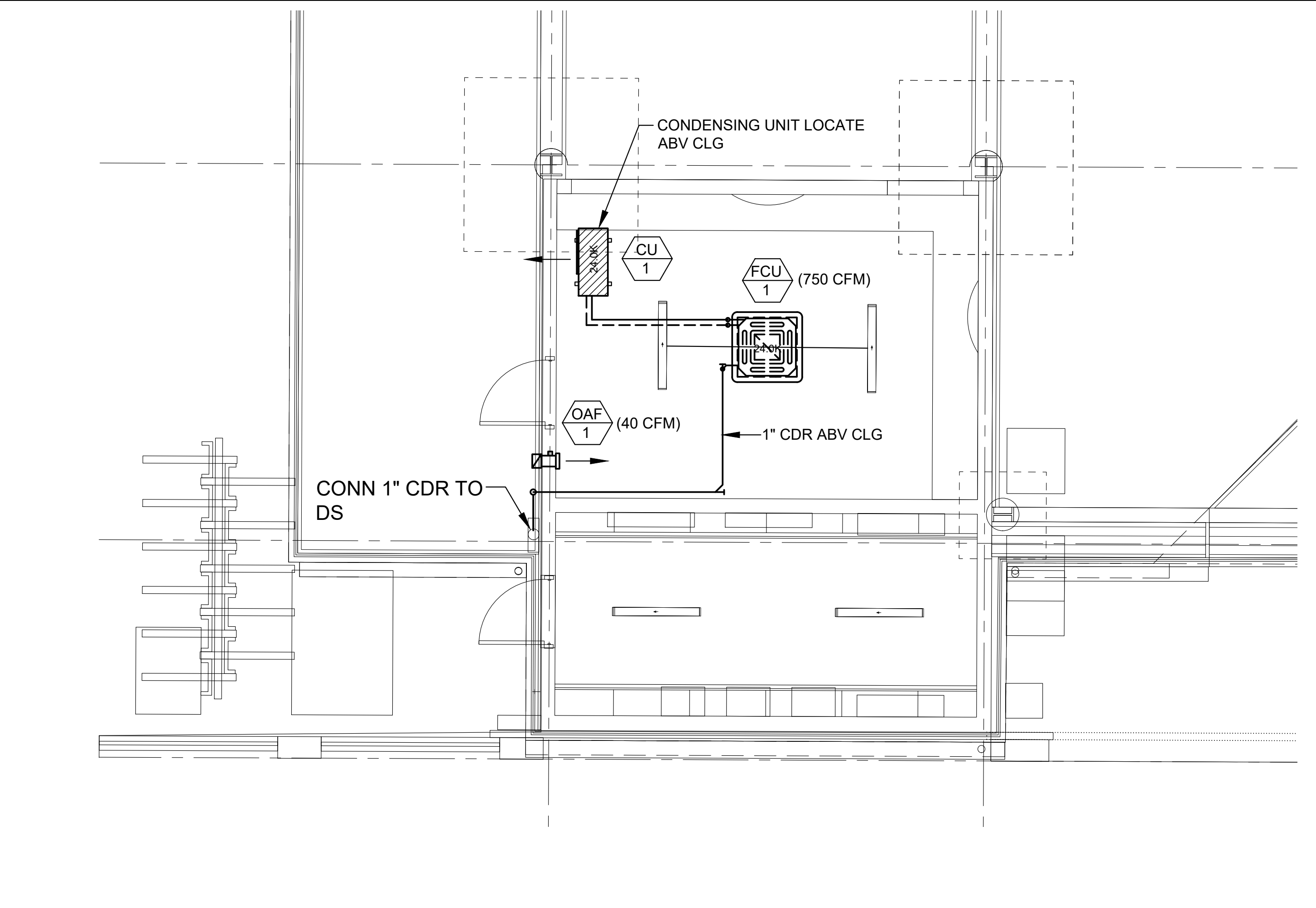
CU NO.	TBTUH	ENT AIR		AMB AIR °F	COMPRESSOR		*POWER SUP		FAN KW	VOLT/PH/CYC	CU MODEL	REMARKS
		°FDB	°FWB		#1, KW	#2, KW	MCA	MOCP				
CU-1	24000	80	67	95	----	----	20.0	30	----	208-230/1/60	CARRIER 38MAQB24R-3	20.5 SEER 145.5

OUTSIDE AIR INTAKE:

FILTERED SUPPLY FAN WITH GALVANIZED SHEET METAL HOUSING, DIRECT DRIVEN FAN, INTERIOR WALL DUCT, EXTERIOR WALL CAP, SPEED CONTROLLER, AND INTERIOR DEFLECTOR AND MERV 8 FILTER.

OAF NO.	CFM	SP	RPM	WATTS	VOLT/PH/CYC	REMARKS
1	40	0.30	2559	8.2	120/1/60	PANASONIC FV-04WS2 INTERLOCK WITH LIGHT SWITCH

2	EQUIPMENT SCHEDULE
NO SCALE	



1	OFFICE AIR CONDITIONING PLAN
1/4"=1'-0"	

Date Plotted: 10/19/2020 10:03 AM
 File Name: C:\Users\stam\Documents\Clients\RSK\Maui Bus Hub\m225\Bada44-4s\MauiBus 100920.dwg



NORTH

1

FIRE SPRINKLER PLAN

3/16"=1'-0"

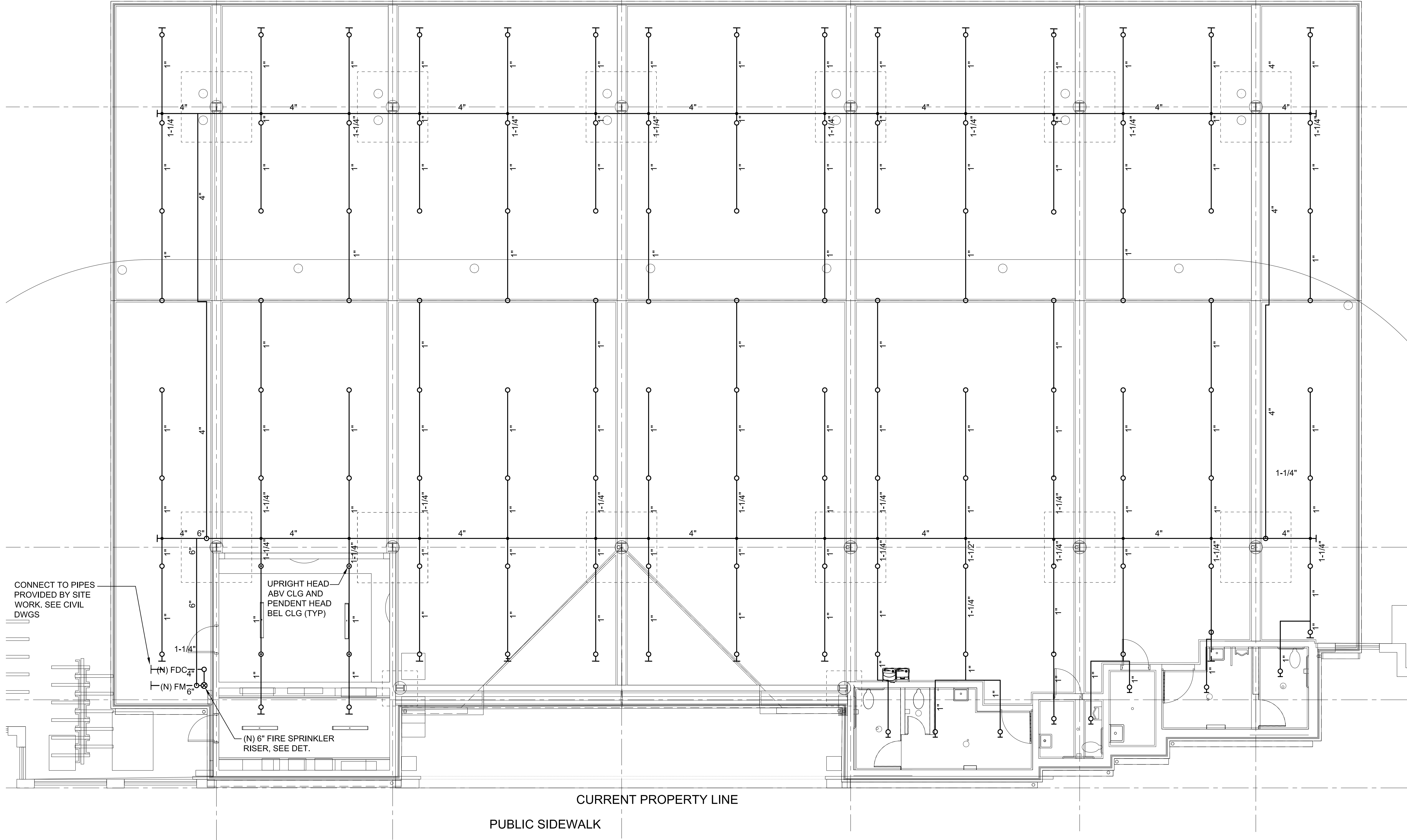


DESIGN CRITERIA

OCCUPANCY: ORDINARY HAZARD, GROUP 1
 AREA / DENSITY: 1500 SF, 0.15 GPM/SF
 OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM
 SPRINKLER TYPE: STAINLESS STEEL QUICK RESPONSE
 SPRINKLER TEMPERATURE: ORDINARY
 K-FACTOR: MINIMUM 5.6

LEGEND

○ STAINLESS STEEL CORROSION PROTECTED UPRIGHT HEAD
 ○ STAINLESS STEEL CORROSION PROTECTED UPRIGHT HEAD ABV CLG AND PENDENT HEAD BEL CLG



REVISIONS

2020-05-05	PERMIT SET
2020-08-07	BID SET
2020-10-09	FD COMMENTS

M-202

PROJECT NO: 2018-0XX

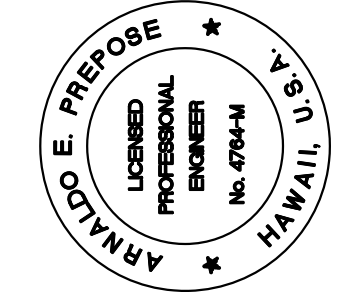
DATE: MAY, 2018

TRANSIT HUB

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FIRE SPRINKLER PLAN

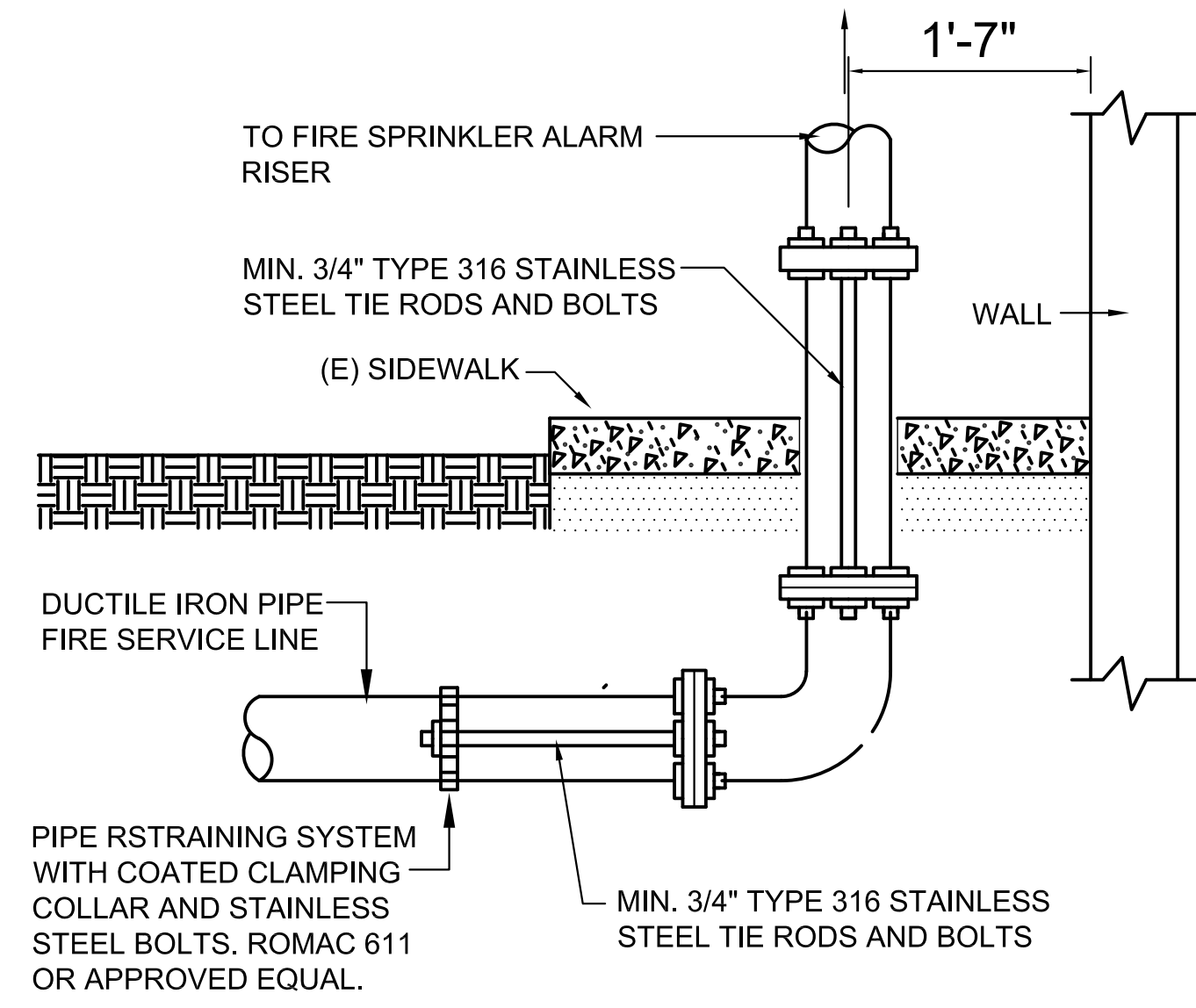
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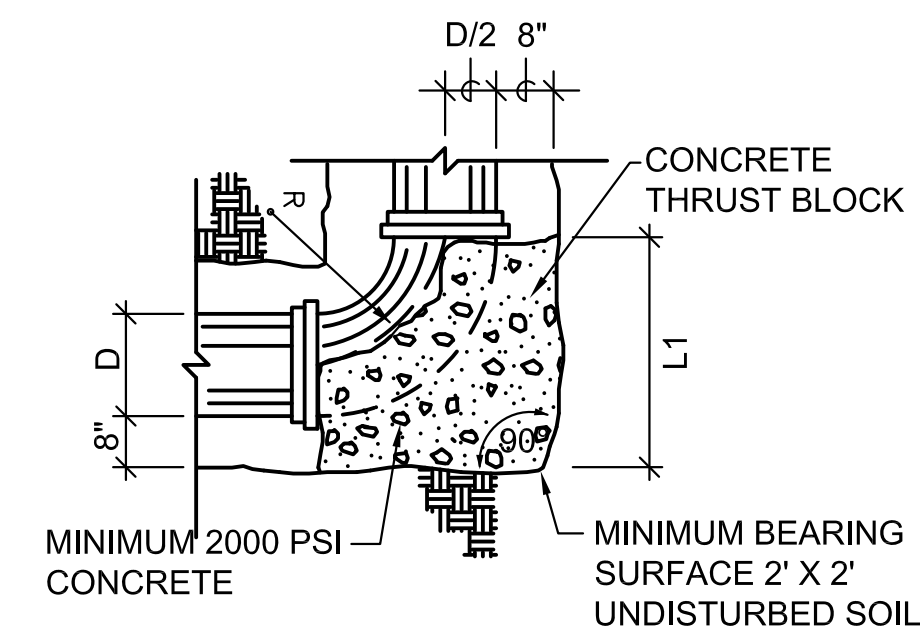
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 SUNNLAND
 ARCHITECTS, LTD. KONO

33 IONO AVENUE, SUITE 200
 PO BOX 1627
 KAHULUI, MAUI, HAWAII 96733-1627
 TELEPHONE: (808) 877-7688

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3 CONNECTION AT RISER DETAIL
 NO SCALE



PIPE SIZE	"D"	MIN"L1"
4"	4.8"	6.9"
6"	6.9"	9.5"

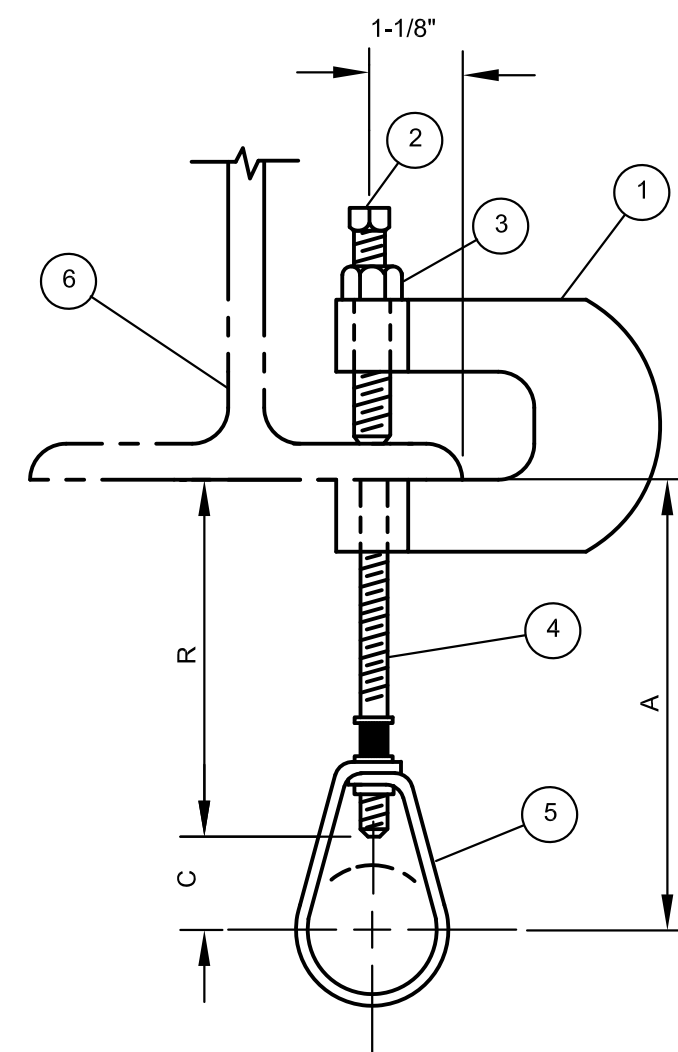
- NOTES:**
- THRUST BLOCK BEARING FACES SHALL BE PLACED AGAINST UNDISTURBED SOIL OR CLASS 100E-100 SLURRY.
 - CONTRACTOR TO PROVIDE RETAINER GLANDS ON ALL FITTINGS.

4 THRUST BLOCK DETAIL
 NO SCALE

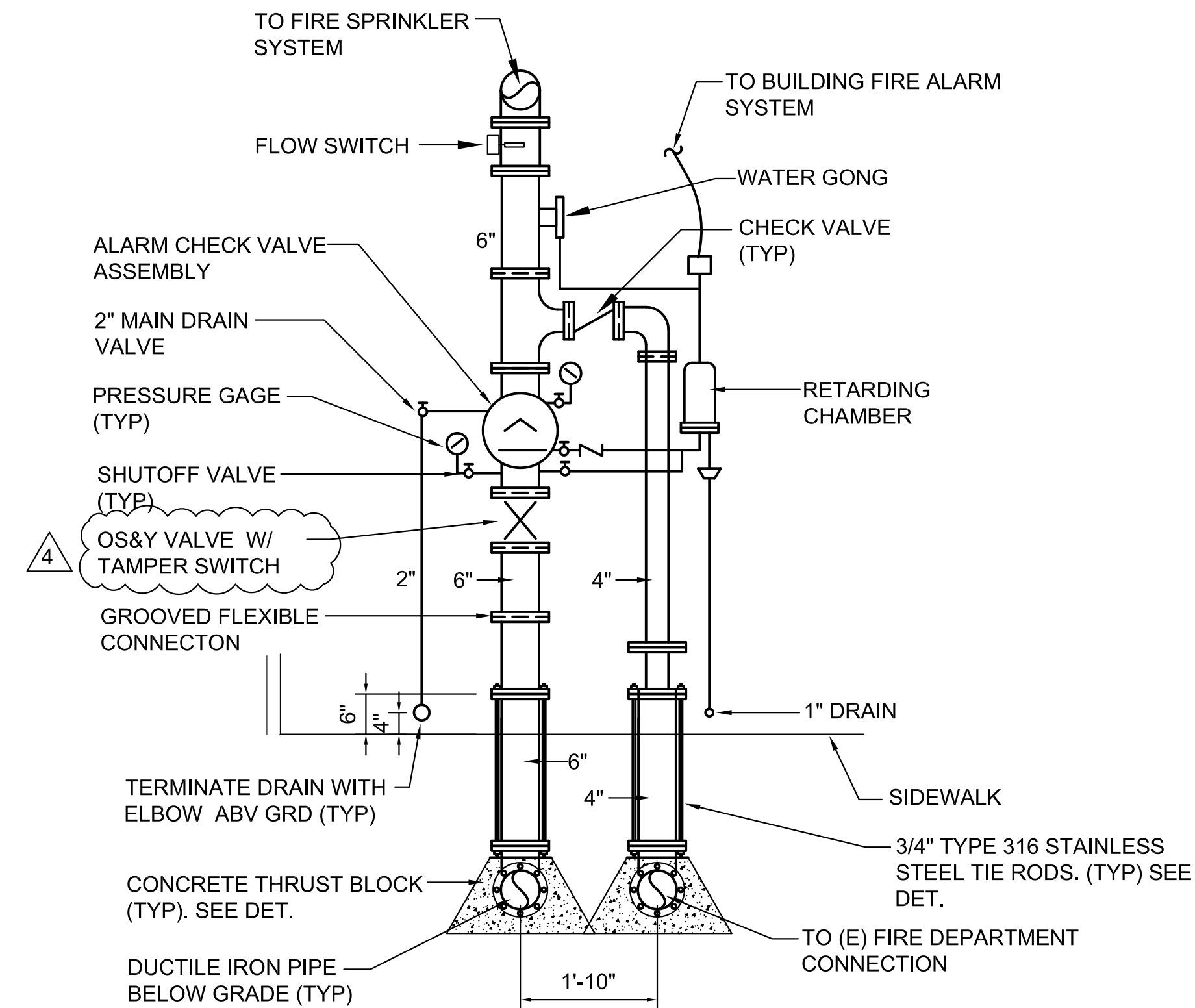
- COMPONENTS:**
- C-CLAMP
 - SET SCREW
 - LOCK NUT
 - HANGER ROD
 - ADJUSTABLE HANGER RING
 - STEEL BEAM OR BAR JOIST

DESIGN DATA FOR C-CLAMP HANGER

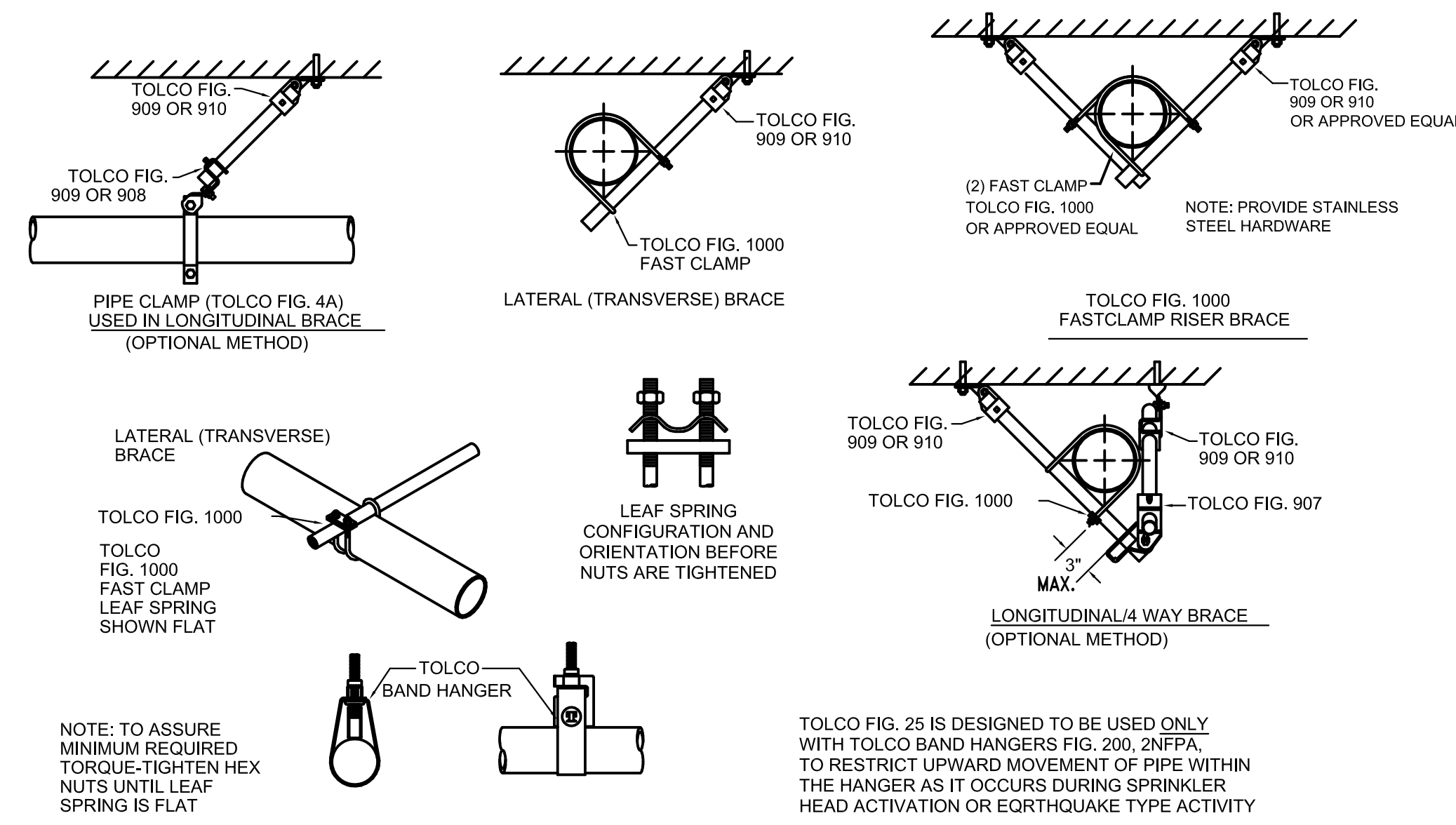
NOMINAL PIPE SIZE	MINIMUM A DIMENSION INCHES	HANGER TAKEOUT INCHES	ROD DIAMETER INCHES
1/2	3 1/2	-1 1/4	3/8
3/4	3 1/2	-1 1/4	3/8
1	3 1/2	-1 1/4	3/8
1 1/4	3 3/4	-1 1/2	3/8
1 1/2	4	-1 1/2	3/8
2	4 1/4	-1 3/4	3/8
2 1/2	5	-2 1/4	3/8
3	5 1/2	-2 1/2	3/8
4	6	-3	3/8
5	6 3/4	-3 3/4	1/2
6	7 3/4	-4 1/2	1/2
8	9 1/4	-6	1/2



5 C-CLAMP HANGER DETAIL
 NO SCALE



2 FIRE SPRINKLER RISER DETAIL
 NO SCALE



- NOTE:**
- Tolco Fig. 1000 Fast Clamps Underwriters Laboratories Listed, Must Be Used With Tolco U.L. Listed Attachments
 - Provide Tolco Restraints Or Approved Equal As Required.

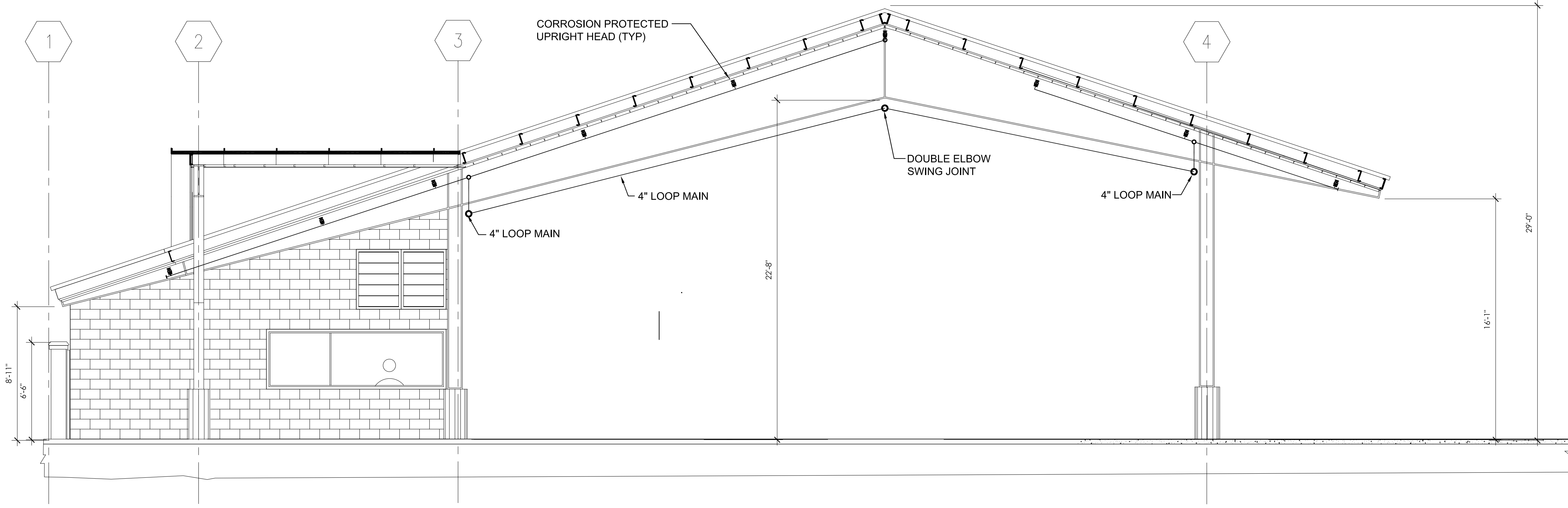
1 SEISMIC RESTRAINTS DETAILS
 NO SCALE

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ARACIO E. PREPOBE
 LICENSED PROFESSIONAL ENGINEER
 No. 6794-H
 HAWAII
 EXPIRES: APRIL 30, 2022

REVISIONS:

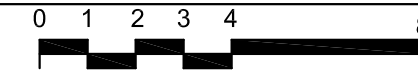
NO.	DATE	DESCRIPTION
2020-05-05	PERMIT SET	
2020-08-07	BID SET	
2020-10-09	FD COMMENTS	



12

FIRE SPRINKLER SECTION DETAIL

1/4" = 1'-0"



M-204

PROJECT NO: 2018-0XX

DATE: MAY, 2018

REVISIONS:

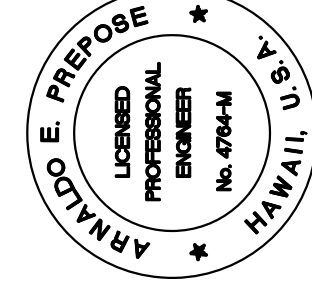
2020-05-05	PERMIT SET
2020-08-07	BID SET

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FIRE SPRINKLER SECTION DETAILS

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EXPIRES: APRIL 30, 2022

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PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	SAN.	VENT	C.W.	H.W.	REMARKS
WC	WATER CLOSET, AMERICAN STANDARD 3451.001	4"	2"	1"	---	ELONGATED EVERCLEAN VITREOUS CHINA FLUSHOMETER TOILET WITH 15"H AND 1-1/2" TOP SPUD. AMSTAN 5901.100SS EVERCLEAN OPEN FRONT SEAT. SLOAN ECOS 8111-1.6/1.1, 1.6-1.1 GPF DUAL SENSOR FLUSH VALVE WITH BATTERY, VACUUM BREAKER, SCREWDRIVER STOP, SEAT BUMPERS.
AWC	WATER CLOSET, AMERICAN STANDARD 3465.001	4"	2"	1"	---	ELONGATED EVERCLEAN VITREOUS CHINA FLUSHOMETER TOILET WITH 16-1/2"H AND 1-1/2" TOP SPUD. AMSTAN 5901.100SS OPEN EVERCLEAN FRONT SEAT. SLOAN ECOS 8111-1.6/1.1, 1.6-1.1 GPF DUAL SENSOR FLUSH VALVE WITH BATTERY, VACUUM BREAKER, SCREWDRIVER STOP, SEAT BUMPERS, AND ADA COMPLIANT.FLUSHING VALVE ASSEMBLY MOUNTED BELOW GRAB BAR. TOILET MOUNTING HEIGHT FROM FLOOR TO TOP OF SEAT SHALL BE 17-19 INCHES FROM FINISH FLOOR. COMPLY WITH ADAAGS SECTIONS 309.4, 604.2, 604.4 AND 604.6.
UR	WATERLESS URINAL SLOAN WES-1001000	2"	2"	---	---	VITREOUS CHINA WATERFREE URINAL WITH ELONGATED 14" RIM, VANDAL RESISTANT, CARTRIDGE HOUSING ASSEMBLY, AND HARDWARE. PROVIDE TWO (2) REPLACEABLE CARTRIDGE. CARTRIDGE WITH BIODEGRADABLE SEALANT LIQUID AND ENHANCED DESIGN TO PREVENT SEALANT LOSS AND ELIMINATES ODOR. FOR ADA URINAL MOUNTING HEIGHT FROM TOP OF RIM SHALL BE 17 INCHES FROM FINISH FLOOR. COMPLY WITH ADAAGS SECTIONS 309, 605, AND 605.2.
LAV	LAVATORY, AMERICAN STANDARD 0356.421	2"	1-1/2"	1/2"	---	WALL HUNG VITREOUS CHINA LAVATORY, 20-1/2" X 18-1/4", FRONT OVERFLOW, SELF DRAINING DECK AREA, WALL HANGER WITH CONCEALED ARMS SUPPORT, AND SINGLE CENTERED FAUCET HOLE. SLOAN EBF-650-8-BAT-BDT-CP-0.50GPM-MLM-1R-BT-FC. 0.5 GPM, HANDS FREE INFRA RED SENSOR FAUCET, 4" CENTERSET, BATTERY POWER SUPPLY, THERMOSTATIC MIXING VALVE, SOLENOID ASSEMBLY, FILTER ASSEMBLY AND QUICK CONNECT FITTINGS. PROVIDE 17-GAUGE CHROME BRASS TUBULAR TAILPIECE, TRAP AND TRIMS AND BRASSCRAFT QUARTER TURN SUPPLE VALVES AND CONNECTIONS. FOR ADA LAVATORY PROVIDE PLUMBEREX MAXX HANDY-SHIELD TO INSULATE ALL DRAINAGE PIPING AND HOT AND COLD WATER VALVE AND SUPPLIES UNDER LAVATORY. COMPLY WITH ADAAGS SECTION 309, 606, 606.4 AND 606.5.
WCO	WALL CLEANOUT ZURN Z1446-NH-Z-VP	---	---	---	---	WALL CLEANOUT WITH ROUND WALL ACCESS COVER, NO-HUB, STAINLESS STEEL COVER AND VANDAL RESISTANT SCREWS.
FD	FLOOR DRAIN ZURN Z4115BZ-ZB-P-VP	2"	2"	---	---	DUCO COATED FLOOR DRAIN WITH STRAINER, TRAP PRIMER AND VANDAL RESISTANT SCREWS.
TP	TRAP PRIMER, PRECISION PLUMBING PRODUCTS PR500	---	---	1/2"	---	PROVIDE BALL VALVE AND ACCESS PANEL.
	WATER HAMMER ARRESTER, PRECISION PLUMBING PRODUCTS SC SERIES	---	---	*	---	MAINTENANCE FREE, SOLDERED JOINT * SIZED PER RESPECTIVE FIXTURES
	HOT WATER PIPE INSULATION, ARMAFLEX	---	---	---	---	1" THICK FLEXIBLE ELASTOMERIC THERMAL INSULATION. LONGITUDINAL SLITS ARE NOT ACCEPTABLE AND PIPE SHALL BE PUSHED THROUGH INSULATION. PROVIDE FOAM LAP SEAL AT JOINTS AND SHEETMETAL SADDLES AT PIPE SUPPORTS. EXPOSED INSULATION SHALL HAVE STAINLESS STEEL JACKET. INSULATION SHALL HAVE MINIMUM CONDUCTIVITY OF 0.27 BTU PER IN, / H X FT X F °F. INSULATION SHALL HAVE MINIMU FLAME SPREAD AND SMOKE DEVELOPED INDEX OF 25/50 RESPECTIVELY AS TESTED IN ACCORDANCE TO ASTM E84.
EW1	ELECTRIC WATER COOLER, WITH BOTTLE FILLER, ADA, ELKAY LZSTL8WSSP.					TWO LEVEL WALL MOUNTED ACCESSIBLE ELECTRIC WATER COOLER, FILTERED WITH BOTTLE FILLING STATION, LEAD FREE BRASS PARTS, STAINLESS STEEL CONSTRUCTION, VANDAL RESISTANT SAFETY BUBBLER, VISUAL FILTER MONITOR, STAINLESS STEEL CABINET AND HFC-134A REFRIGERANT. PROVIDE ADA REQUIRED APRON. BOTTLE FILLING UNIT SHALL INCLUDE AN AUTOMATIC 20-SECOND SHUT-OFF TIMER, GREEN TICKER DISPLAYING COUNT OF PLASTIC BOTTLES. 1.1 - 1.5 GPM LAMINAR FLOW RATE. 8.0 GPH, 5.0 FLA, 370 WATTS, 115/1/60.

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	SAN.	VENT	C.W.	H.W.	REMARKS
S/S	SERVICE SINK KOHLERK-6716 KOHLER K-8906	3"	2"	3/4"	---	24"X20-1/4" WALL MOUNTED ENAMELED CAST IRON SERVICE SINK WITH STAINLESS STEEL RIM GUARD AND 3" ENAMELED TRAP STANDARD WITH STRAINER. WALL MOUNTED FAUCET WITH VACUUM BREAKER AND LOOSE KEY STOPS IN SHANK, THREADED HOSE SPOUT, HOSE HOOK WITH HOSE AND CHROME FINISH.
HB	EXTERIOR HOSE BIBB ARROWHEAD BRASS NO. 251	---	---	3/4"	---	ROUGH BRASS FINISH NO-KINK HOSE BIBB, 3/4" IPS MALE INLET, WITH NON-REMOVABLE VACUUM BREAKER, LOOSE KEY AND LEE NO. 807-39 SERVICE COCK.

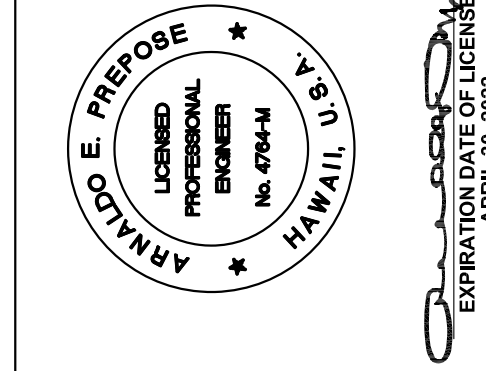
GENERAL PLUMBING NOTES

- DRAWINGS ARE DIAGRAMMITICAL ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS, AND PLANS FOR ADDITIONAL REQUIREMENTS TAHT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION DOCCEMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- FURNISH A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE OWNER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS PREPARED BY THE ENGINEER-OF-RECORD AFTER FINAL INSPECTION OF INSTALLED PLUMBING SYSTEMS.
- FURNISH TO THE OWNER A COPY OF INSPECTOIN REPORTS AND APPROVAL CERTIFICATES FROM THE LOCAL AND STATE INSPECTIONS.
- PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATON AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- COORDINATE ALL WITH OTHER TRADES AND CONTRACTORS.
- COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
- PAINT ALL EXPOSED GAS PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECTS AND/OR OWNER.

1 PLUMBING FIXTURE SCHEDULE AND NOTES

NO SCALE

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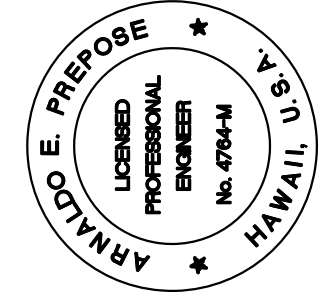
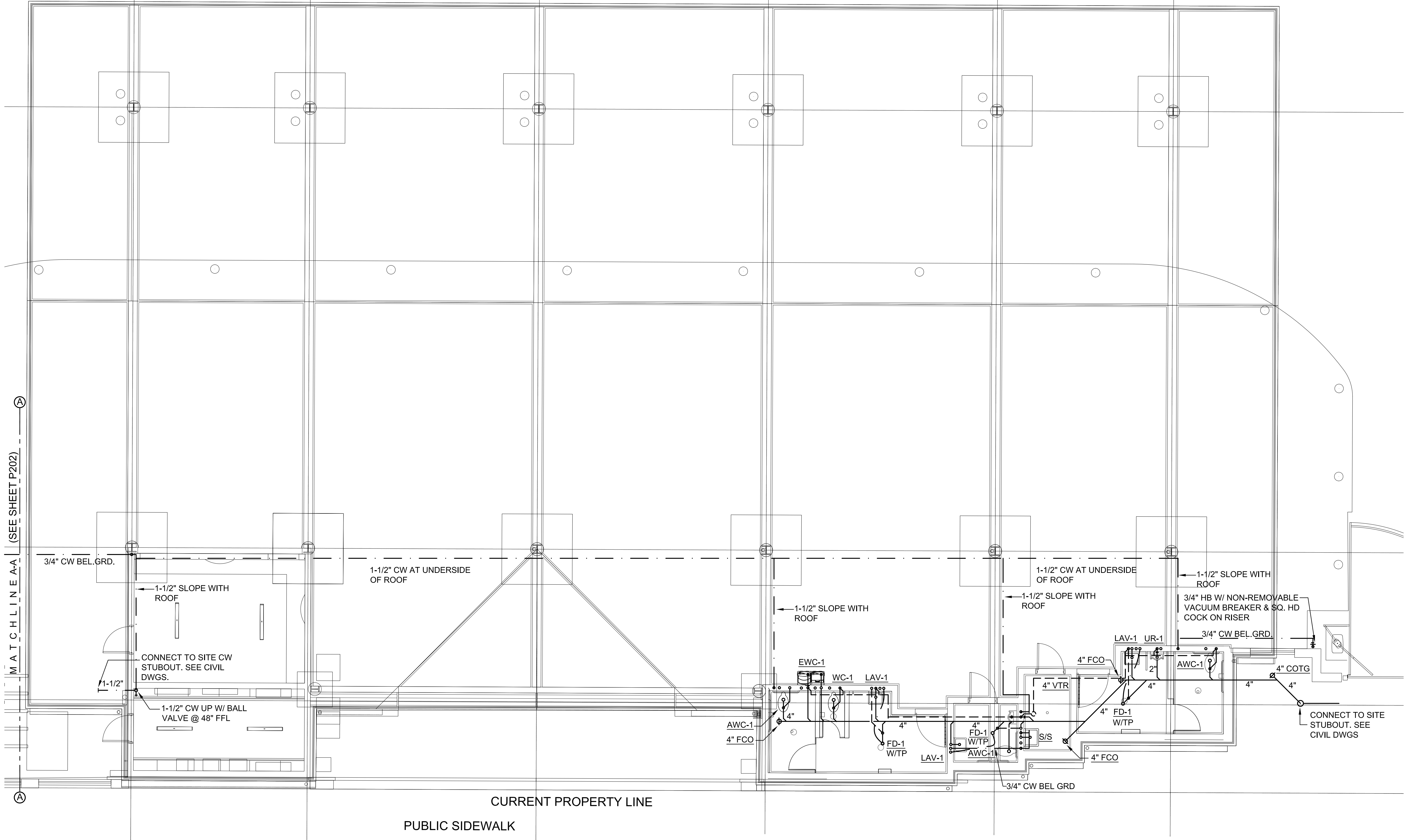
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PLUMBING PLAN

3/16"=1'-0"



M A T C H L I N E A A (SEE SHEET P202)



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PLUMBING PLAN

REVISIONS

2020-05-05	PERMIT SET
2020-08-07	BID SET

P-201

PROJECT NO.: 2018-0XX

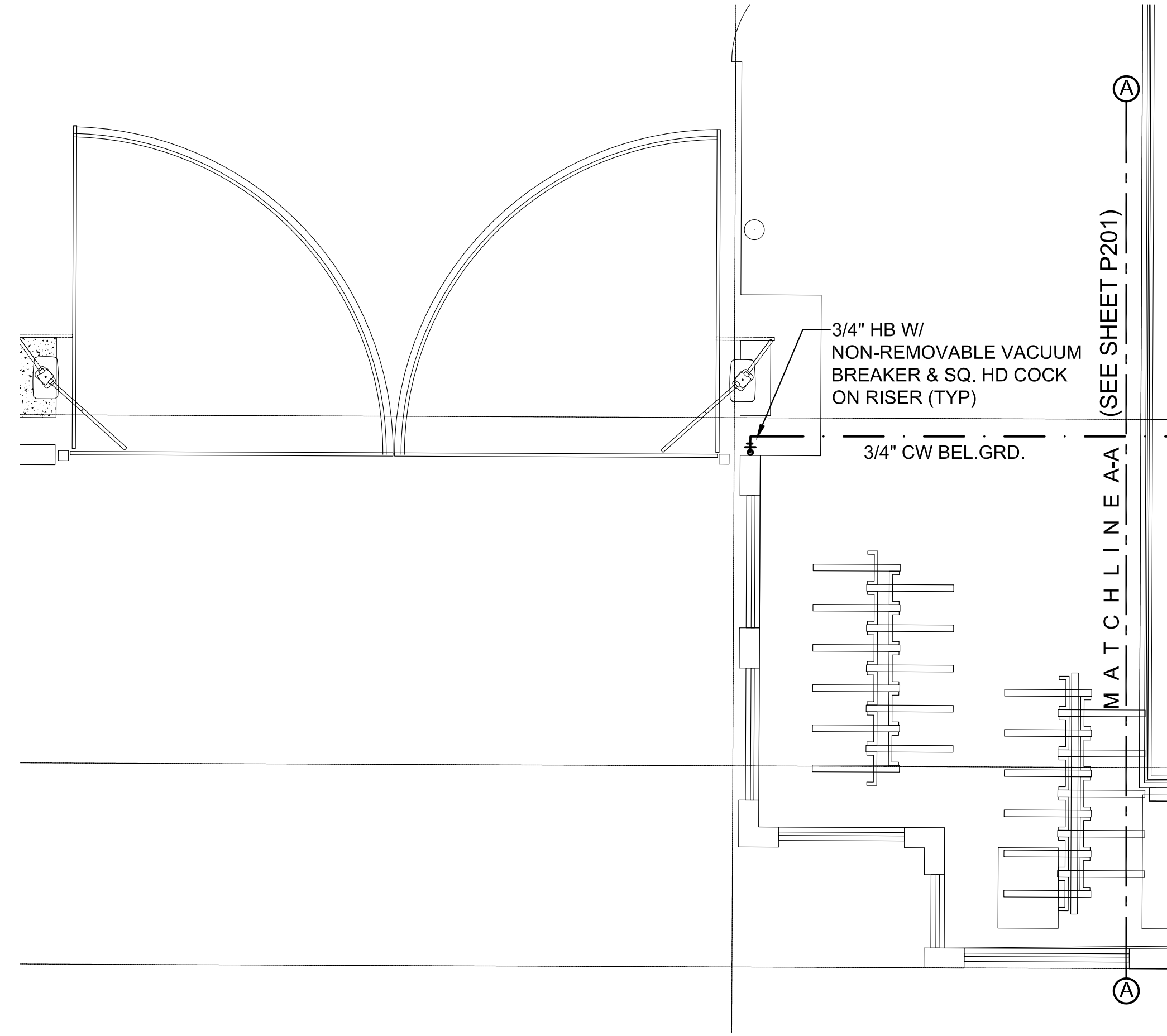
DATE: MAY, 2018



3

PARTIAL PLUMBING PLAN

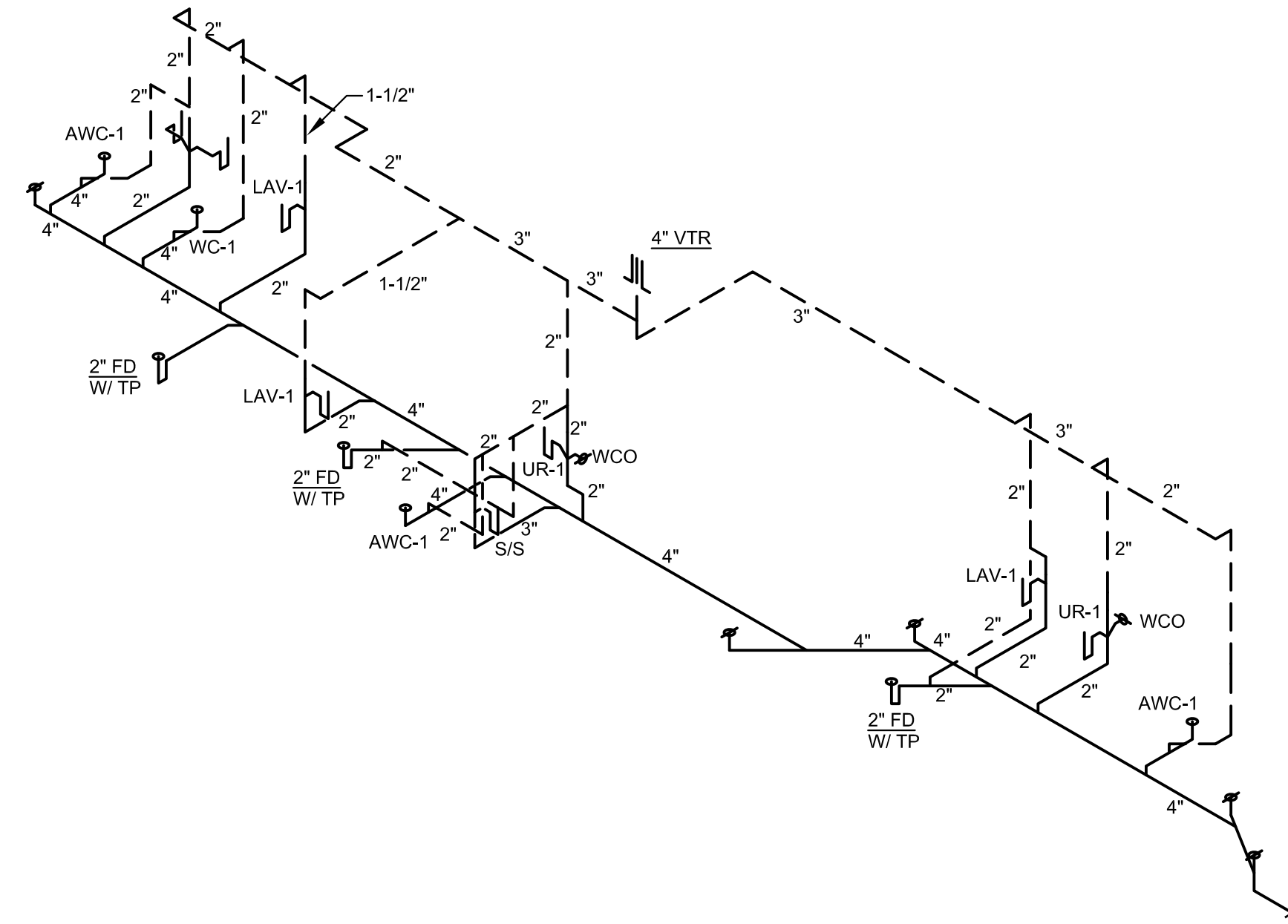
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1

SANTARY SEWER PIPING DIAGRAM

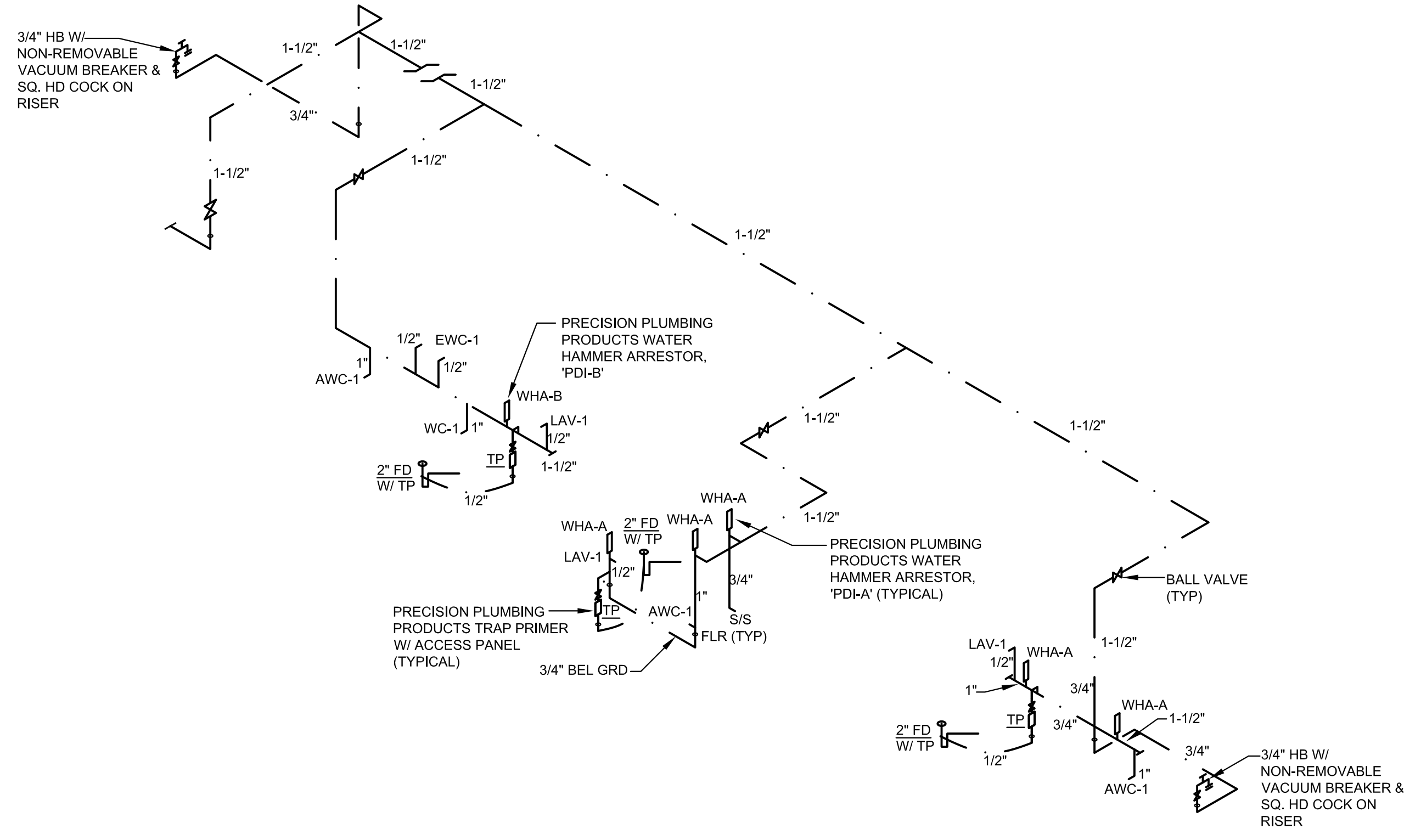
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2

WATER PIPING DIAGRAM

NO SCALE



P-202

PROJECT NO: 2018-0XX

DATE: MAY, 2018

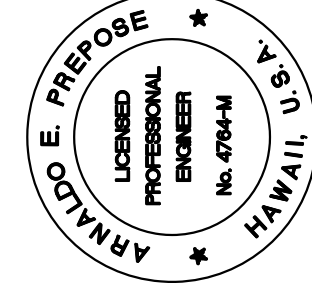
REVISIONS:
 2020-05-05 PERMIT SET
 2020-08-07 BID SET

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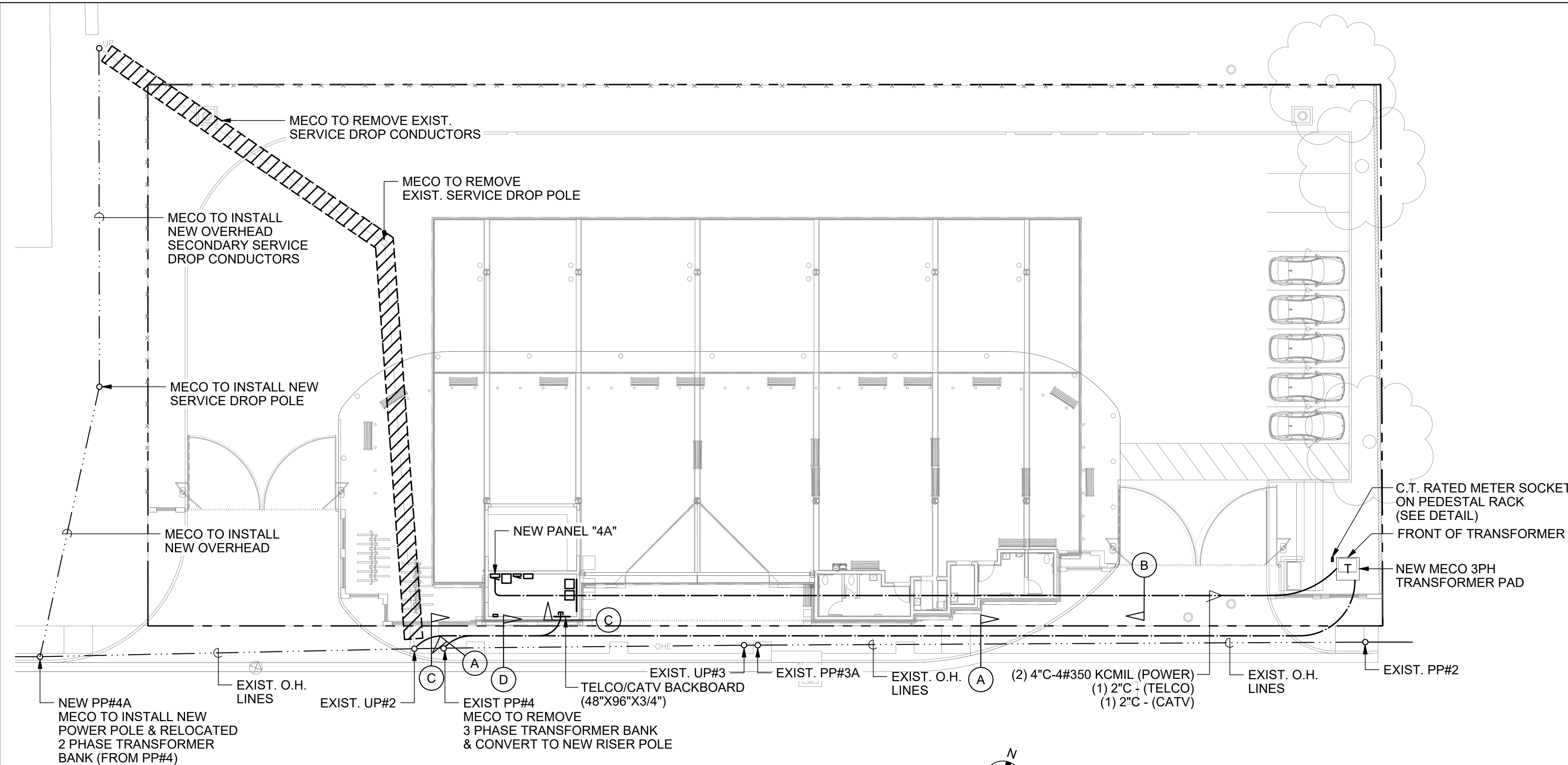
PLUMBING DIAGRAMS

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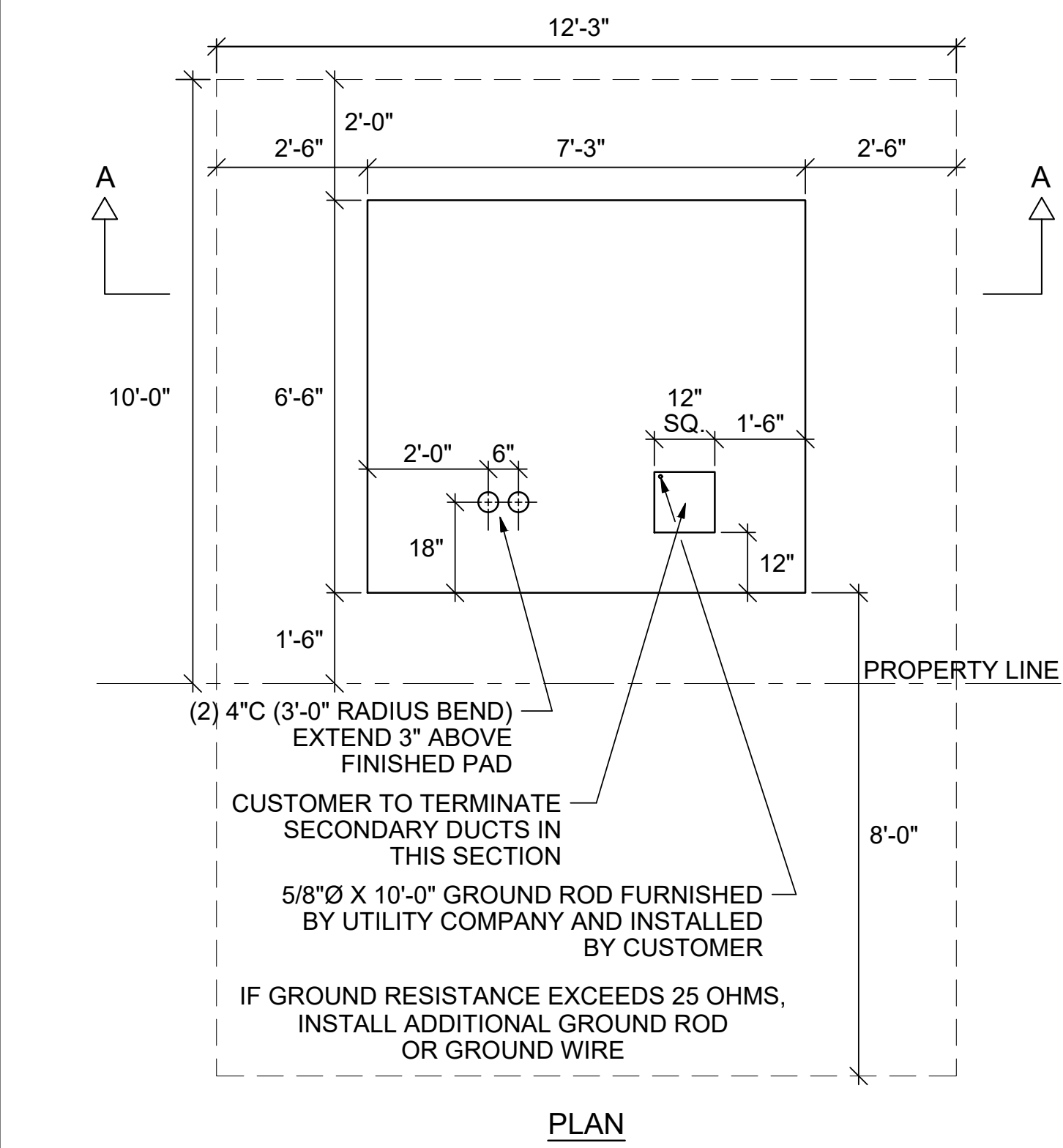
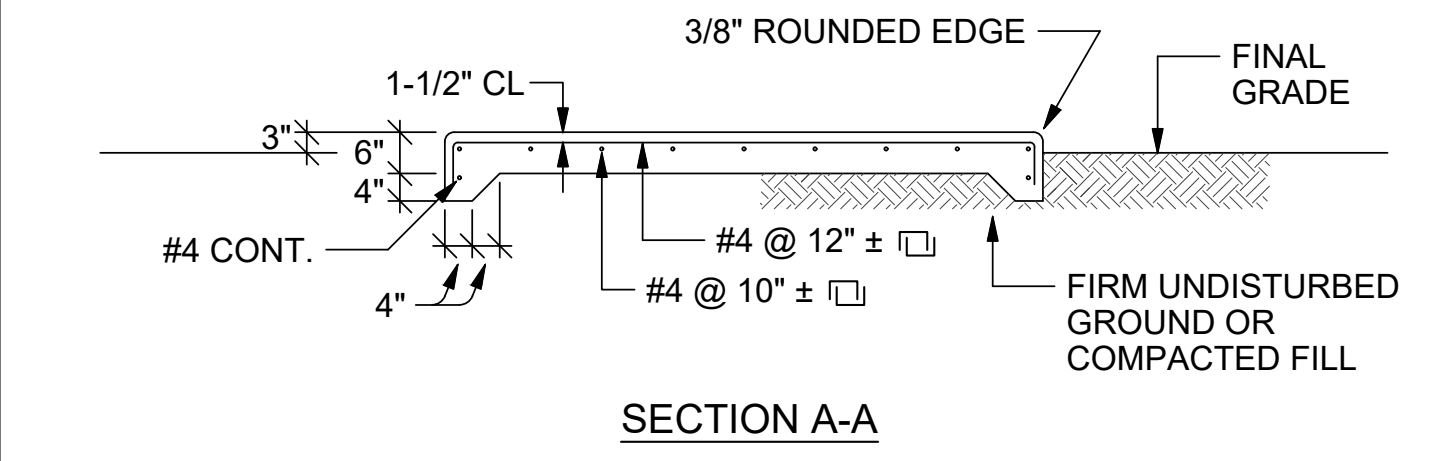


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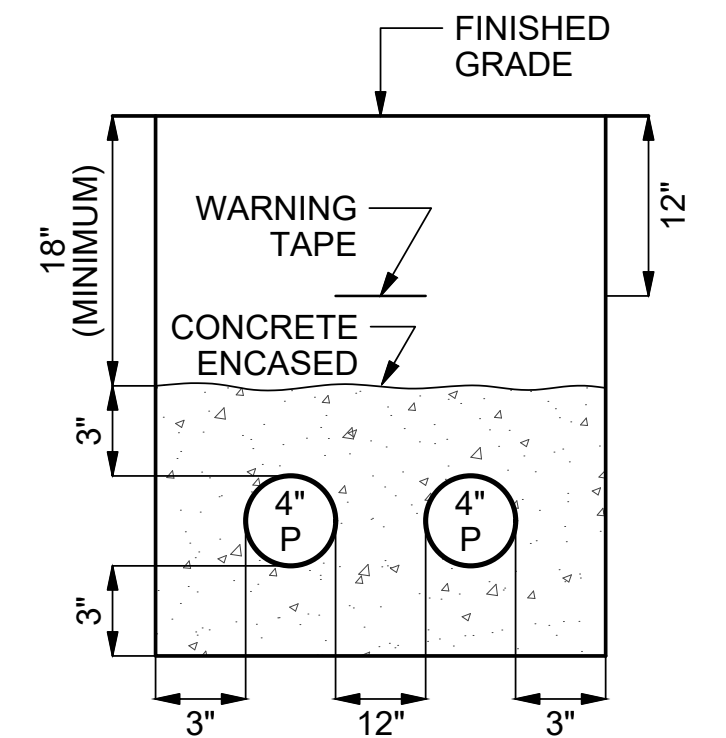
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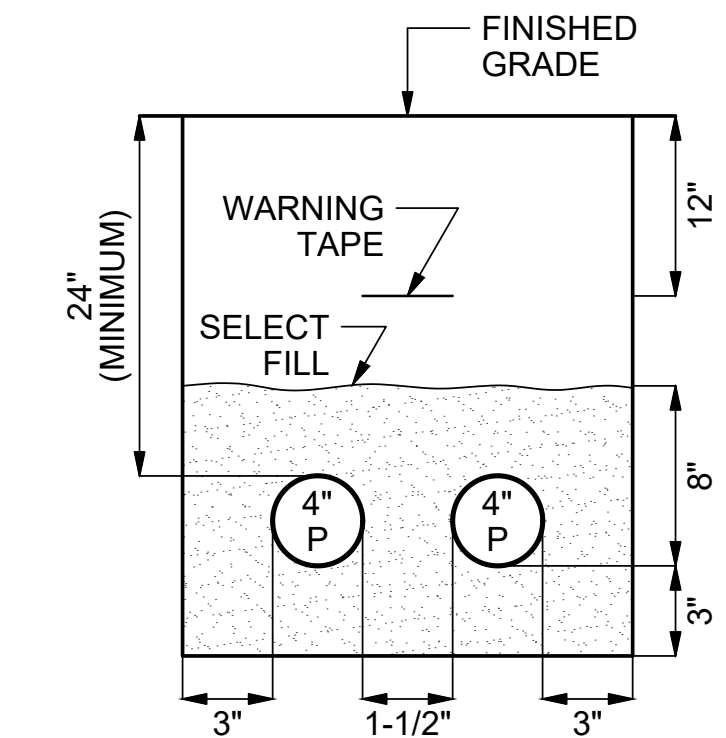
ELECTRICAL UTILITY SITE PLAN
SCALE: 1/16" = 1'-0"



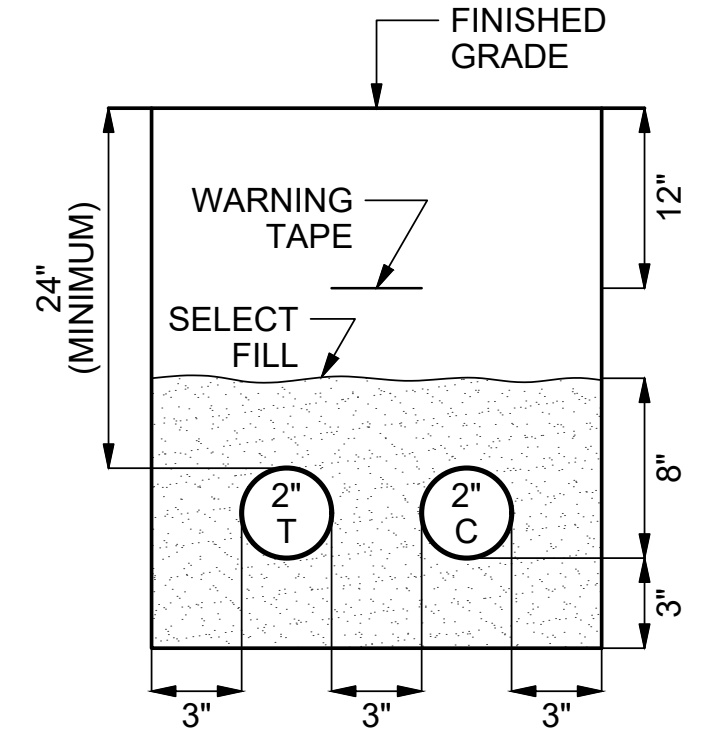
75 TO 750 KVA 3PH TRANSFORMER PAD
NOT TO SCALE



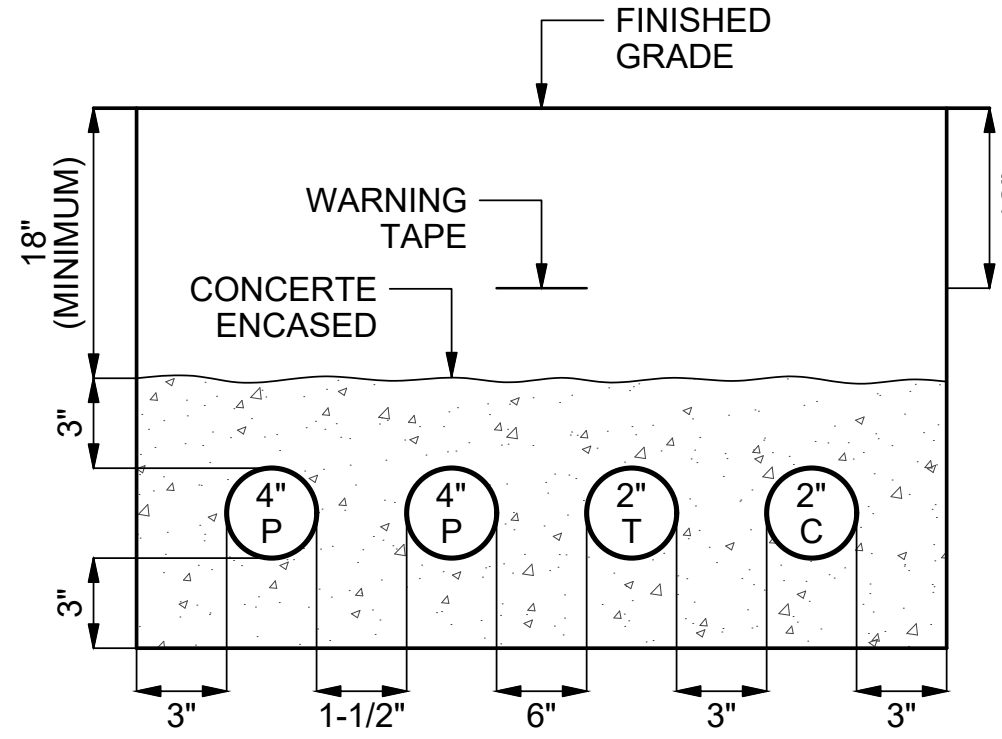
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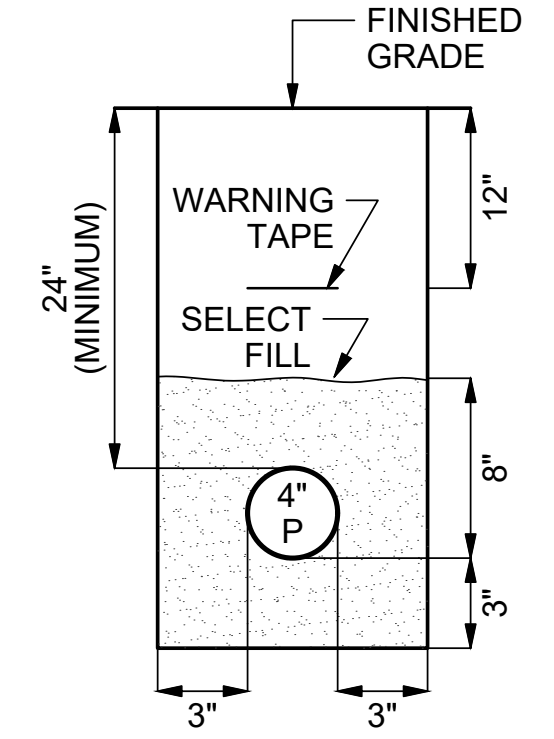
TRENCHING DETAIL "B"
NOT TO SCALE



TRENCHING DETAIL "C"
NOT TO SCALE



TRENCHING DETAIL "D"
NOT TO SCALE



TRENCHING DETAIL "F"
NOT TO SCALE

- GENERAL NOTES**
- ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE COUNTY OF MAUI, THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE, AND LIFE SAFETY CODE, AND THE AMERICAN ELECTRICIANS HANDBOOK (BY CROFT), AND APPLICABLE INSTRUCTIONS OF MANUFACTURERS OF EQUIPMENT AND MATERIAL SUPPLIED FOR THIS PROJECT.
 - CONTRACTOR SHALL COMPLY WITH ALL MAUI ELECTRIC COMPANY, HAWAIIAN TELCOM & SPECTRUM CABLE STANDARDS AND REQUIREMENTS TO OBTAIN ELECTRICAL, TELEPHONE & CABLE TELEVISION SERVICES.
 - ALL MATERIALS TO BE NEW AND BE LISTED BY UNDERWRITERS LABORATORIES AS CONFORMING TO ITS STANDARDS WHERE SUCH STANDARDS EXIST.
 - INSTALLATION TO BE COMPLETE IN EVERY DETAIL AND READY FOR USE. ANY ITEM SUPPLIED BY THE CONTRACTOR DEVELOPING DEFECTS WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY OWNER, TO BE REPLACED BY MATERIALS, APPARATUS OR PARTS INCLUDING INSTALLATION LABOR TO MAKE THE DEFECTIVE PORTION CONFORM TO THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS. AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO ALSO WARRANTY THEIR WORKMANSHIP FOR THE SAME ONE (1) YEAR PERIOD TO BE FREE OF DEFECTS.
 - THE CIRCUIT ROUTING AND LAYOUT ARE TYPICAL ONLY AND MAY BE VARIED IN A LOGICAL ORDER. PREPARE A RECORD DRAWING REFLECTING ANY DEVIATIONS TO TURN OVER TO THE ENGINEER AT THE COMPLETION OF THE WORK. ANY DEVICE MAY BE RELOCATED WITHIN 10 FEET BEFORE INSTALLATION AT THE DIRECTION OF THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
 - ALL WORK TO BE PERFORMED IN A NEATLY EXECUTED AND WORKMANLIKE MANNER.
 - ANY DEVIATIONS FROM THE PLANS AND SPECIFICATIONS TO BE REFERRED TO THE ENGINEER PRIOR TO IMPLEMENTATION FOR APPROVAL.
 - CONDUCTORS SHALL BE TYPE THHN/THWN COPPER "UNLESS NOTED ON PLANS". MINIMUM POWER CONDUCTOR SIZE TO BE #12 AWG.
 - VERIFY EQUIPMENT LOCATION, MOUNTING HEIGHT, AND ELECTRICAL REQUIREMENT/ CONNECTION WITH OWNER OR EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. CONTRACTOR TO MAKE ADJUSTMENTS TO MEET REQUIREMENT OF ACTUAL EQUIPMENT INSTALLED. ALL CHANGES TO COMPLY WITH ALL APPLICABLE COUNTY CODES, NATIONAL ELECTRICAL CODE, AND LIFE SAFETY CODES. NOTE CHANGES ON "AS-BUILT" DRAWING SET.
 - ALL WIRING SHALL BE CONCEALED IN WALLS, CEILINGS, FLOORS, AND FURRED SPACES UNLESS OTHERWISE NOTED. ALL WIRING TO BE INSTALLED IN CONDUIT. USE EMT AND COMPRESSION CONNECTORS. USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENT CONNECTIONS. ALL CONDUITS TO BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS AND CEILINGS. GROUP RELATED CONDUITS ON A RACK WITH 25% SPARE CAPACITY. SUPPORT CONDUITS PER NATIONAL ELECTRICAL CODE.
 - VERIFY AND CHECK ALL DIMENSIONS AT JOB PRIOR TO PROCEEDING WITH WORK.
 - VERIFY EXISTING ELECTRICAL SYSTEM AND SITE WORKING CONDITIONS PRIOR TO SUBMITTING BID OR PROPOSAL.
 - TORQUE ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
 - BALANCE ELECTRICAL LOAD AT PANEL.
 - REMOVE ANY UN-USED ELECTRICAL WIRING.
 - COORDINATE AND SCHEDULE POWER OUTAGES WITH OWNER.
 - PROVIDE EQUIPMENT GROUNDING AS REQUIRED BY CODE.
 - WIRING DEVICES SHALL BE SPECIFICATION GRADE. GROUNDING TYPE, COLOR TO BE SPECIFIED BY ARCHITECT. RECEPTACLES TO HAVE NEMA CONFIGURATION TO MATCH CORD CAP ON EQUIPMENT SUPPLIED. SWITCHES TO BE ROCKER TYPE.
 - PENETRATIONS OF HORIZONTAL ASSEMBLIES (LISTED IN IBC 2006 SEC. 712.4) AND FIRE-RESISTANCE-RATED WALL ASSEMBLIES (LISTED IN IBC 2006 SEC. 712.3) SHALL BE PROTECTED BY METHODS DESCRIBED IN IBC 2006 SEC. 712.

MAUI COUNTY CODE CHAPTER 20.35
OUTDOOR LIGHTING

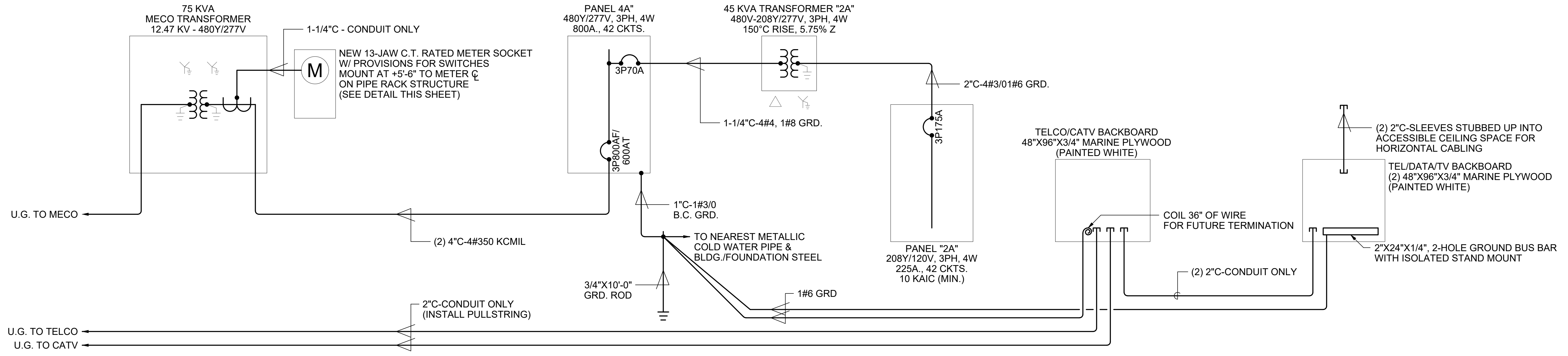
THE ELECTRICAL OUTDOOR LIGHTING SYSTEM AND EQUIPMENT HAVE BEEN REVIEWED BY ME AND TO THE BEST OF MY KNOWLEDGE, THIS DESIGN SUBSTANTIALLY CONFORMS TO THE REQUIREMENTS SPECIFIED IN MAUI COUNTY CODE CHAPTER 20.35 OUTDOOR LIGHTING.

SIGNATURE: *[Signature]* PRINCIPAL
DON H. SUZUKI TITLE
9006-E
PRINTED NAME STATE OF HAWAII PROFESSIONAL ENGINEER LICENSE NUMBER

COUNTY OF MAUI MAUI COUNTY CODE, CHAPTER 16.16B ENERGY CODE COMMERCIAL PROVISIONS	
COMPLIANCE METHOD CHECK APPLICABLE METHOD	
<input type="checkbox"/>	C401.2(1) ANSI/ASHRAE/IESNA 90.1
<input checked="" type="checkbox"/>	C401.2(2) SECTIONS C402 THROUGH C406
<input type="checkbox"/>	C401.2(3) SECTIONS C402.5, C403.2, C404, C405.2, C405.3, C405.4, C405.6 & C407
<input type="checkbox"/>	C101.2 (ALTERNATIVE)
TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE ENERGY CODE.	
SIGNATURE: <i>[Signature]</i>	DATE: 2020-02-14
NAME: DON H. SUZUKI	
TITLE: PRINCIPAL	
LICENSE NO.: 9006-E	

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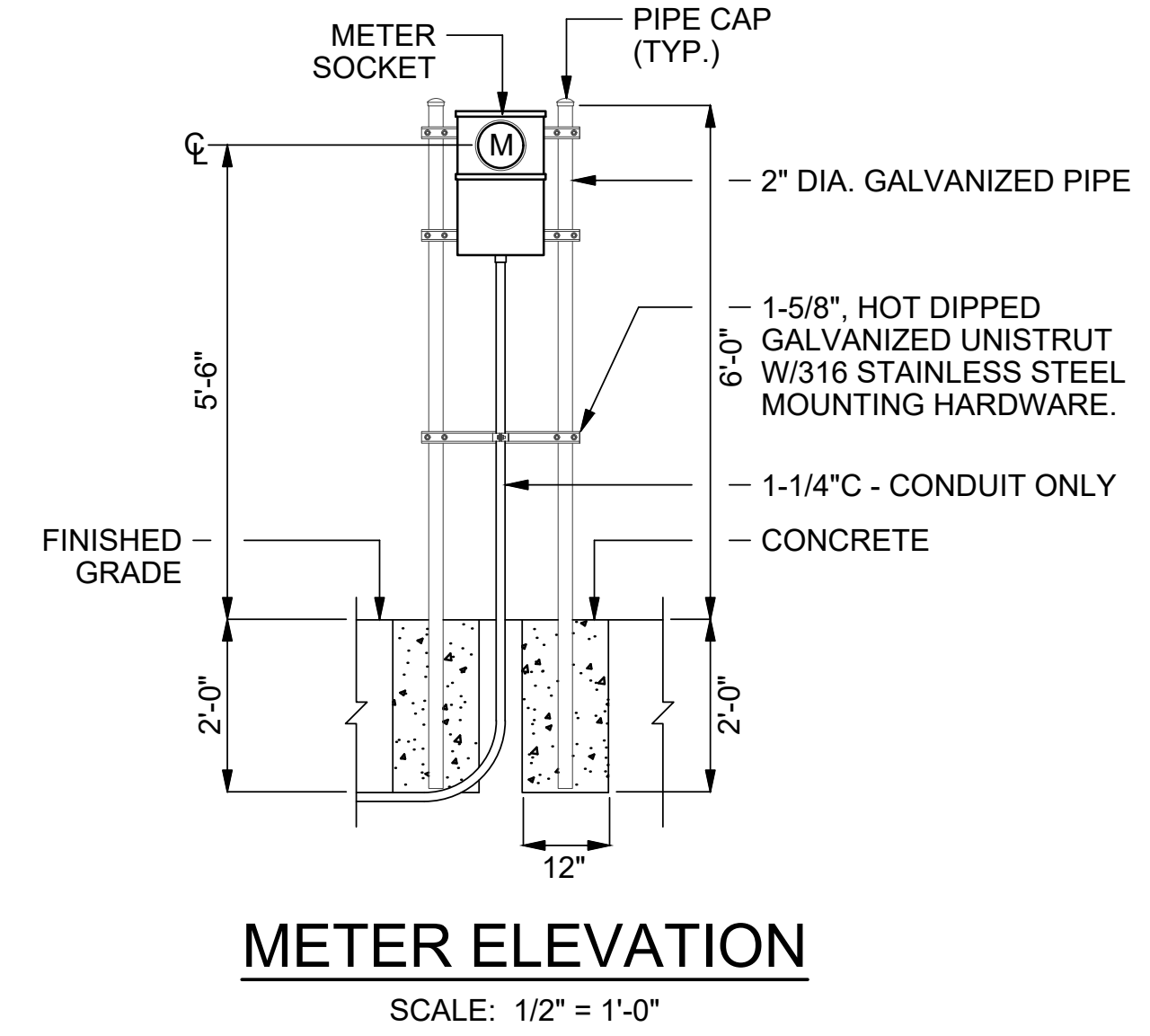
DON H. SUZUKI
PROFESSIONAL ENGINEER
NO. 9006-E
HAWAII
EXPIRATION DATE OF LICENSE: APRIL 30, 2022



SINGLE LINE DIAGRAM
NOT TO SCALE

PANEL SCHEDULE: PANEL "4A"													
Voltage: 480Y/277V		Phase: 3		Wire: 4		Bus Amps: 800A W/ 3P600A MAIN BREAKER		No. Ckts: 42					
Mounting: SURFACE		NEMA Config: 1		Breaker Type: Bolt-On - 65,000 AIC Minimum									
Ckt	Description	Ph A	Ph B	Ph C	Brkr	Wire	Ckt	Description	Ph A	Ph B	Ph C	Brkr	Wire
1	L - POLE LIGHTS	0.5			1P20	12	2						
3	L-EXTERIOR		2.0				4						
5	L-OFFICE/ELEC RM.			0.5			6						
7							8						
9							10						
11							12						
13							14						
15							16						
17							18						
19							20						
21							22						
23							24						
25							26						
27							28						
29							30						
31							32						
33							34						
35							36						
37							38						
39							40	PNL "2A" XFMR			3P70		4
41							42						

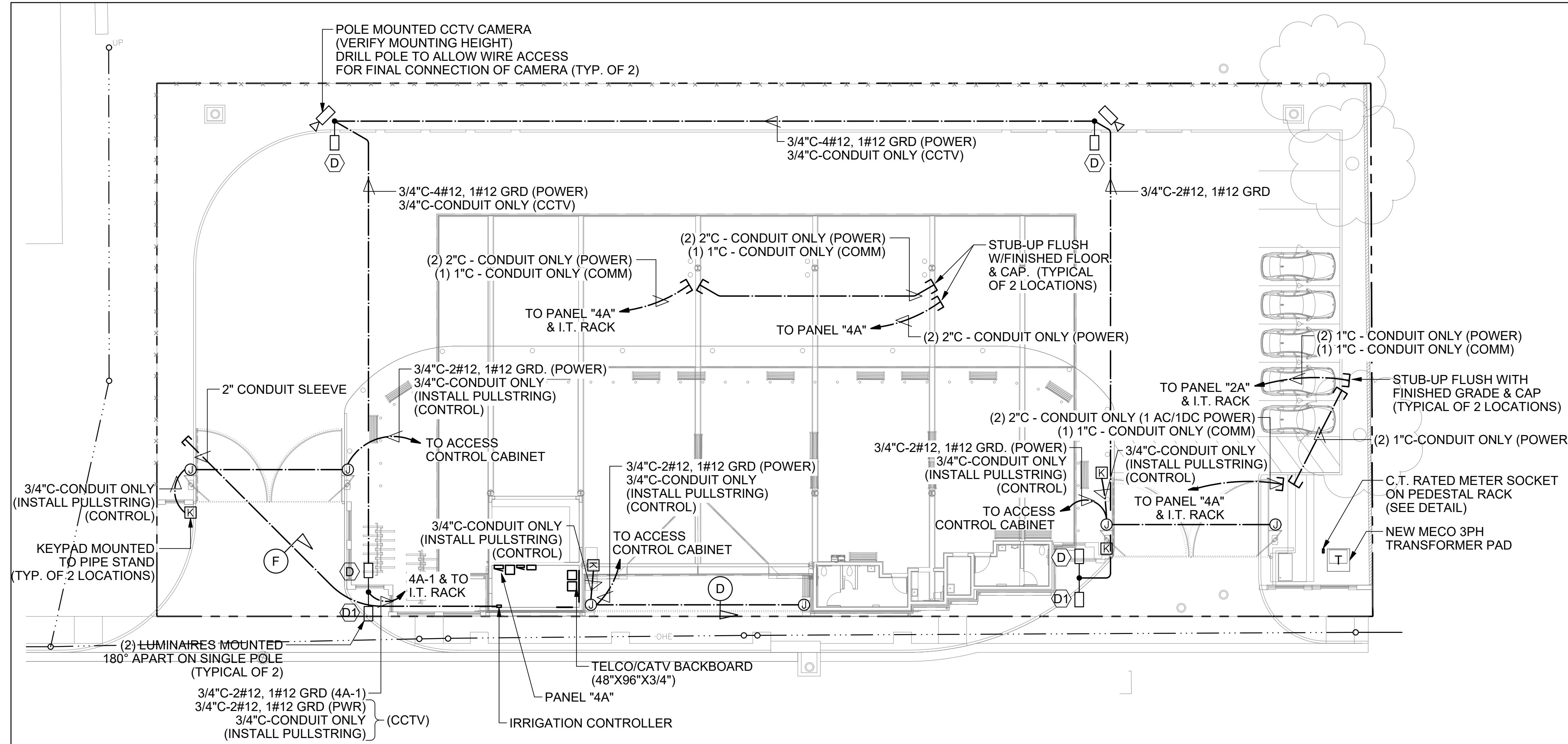
PANEL SCHEDULE: PANEL "2A"													
Voltage: 208Y/120V		Phase: 3		Wire: 4		Bus Amps: 225A W/ 3P175A MAIN BREAKER		No. Ckts: 42					
Mounting: SURFACE		NEMA Config: 1		Breaker Type: Bolt-On - 10,000 AIC Minimum									
Ckt	Description	Ph A	Ph B	Ph C	Brkr	Wire	Ckt	Description	Ph A	Ph B	Ph C	Brkr	Wire
1	SPARE				1P20		2	R - EXTERIOR TV	1.0			1P20	12
3							4	R - FURNITURE	1.0				
5							6	R - EXTERIOR			1.0		
7							8	R - TV (TICKET)	1.0				
9							10	R - TICKETBOOTH	1.0				
11							12	R - AMP RACK			1.0		
13							14	R - RESTROOM	1.0				
15							16	R - TV (BATH)	1.0				
17							18	COMM BACKBOARD			1.0		
19							20	OAF-1	0.1				
21							22	IRRIG. CONTROLLER	0.2				
23							24	FACP			0.5		
25							26	R-VENDING MACHINE	1.0				
27							28	R-VENDING MACHINE	1.0				
29							30	R-VENDING MACHINE			1.0		
31							32	SPARE				1P20	
33							34						
35							36						
37							38						
39	CU-1		2.1				40						
41				2.1	2P30	10	42						



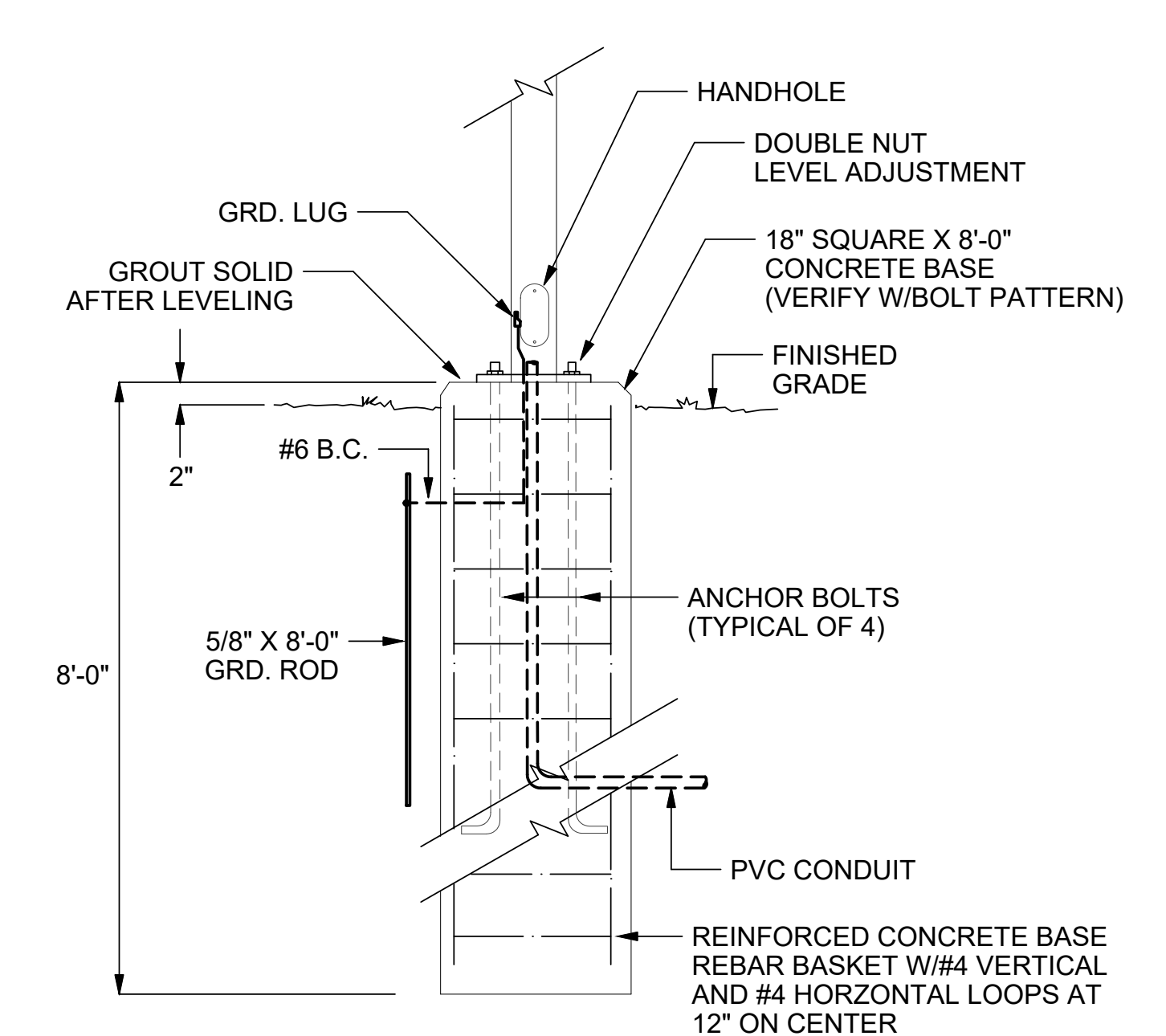
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DOH. SUZUKI
PROFESSIONAL ENGINEER
NO. 9006-E
HAWAII
EXPIRATION DATE OF LICENSE: APRIL 30, 2022

REVISIONS
2020-05-05 PERMIT SET
AUGUST 7, 2020 BID SET



ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"



LIGHT POLE BASE DETAIL
NOT TO SCALE

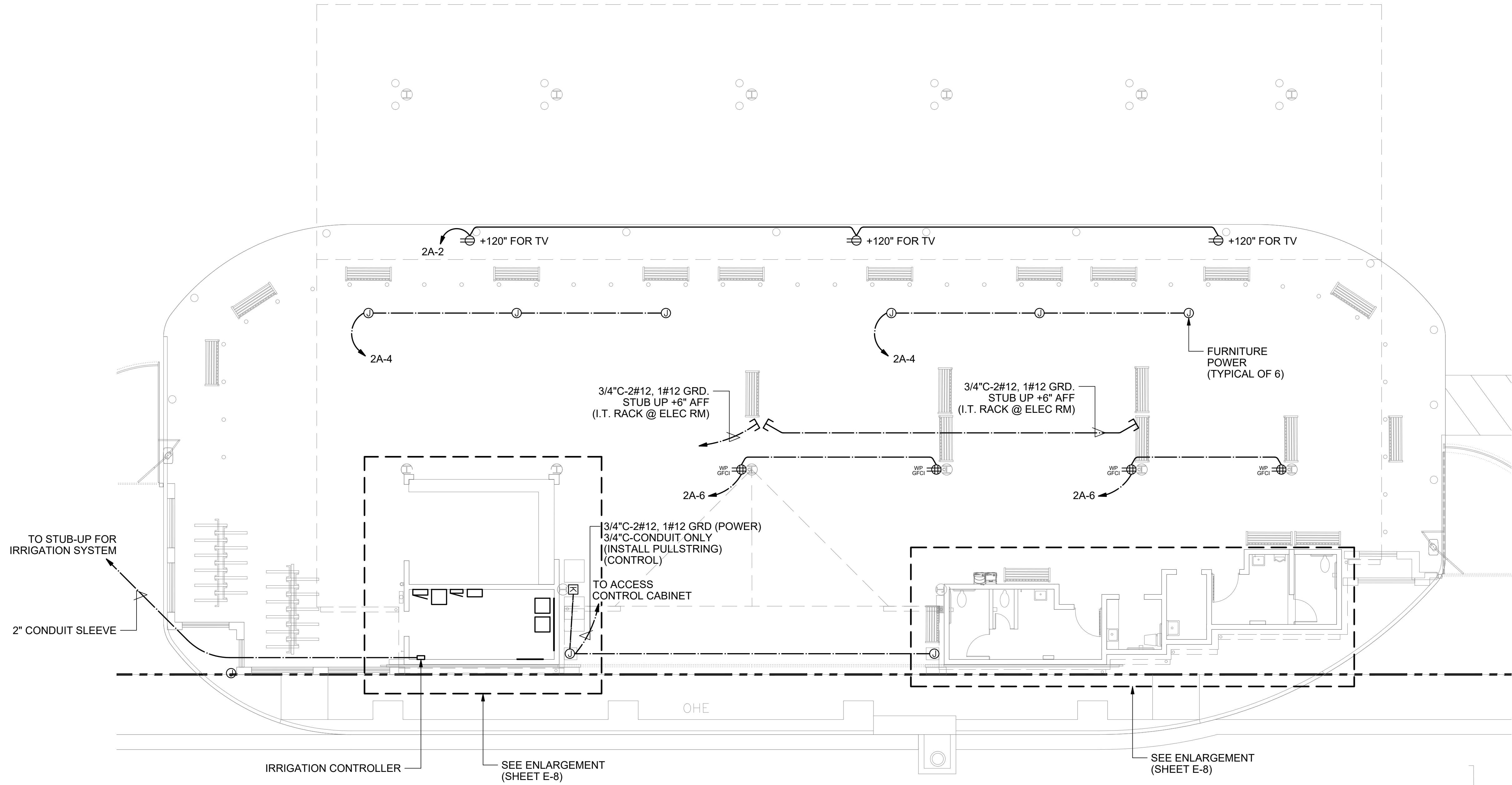
LUMINAIRE SCHEDULE		
(A)	NEW STAR VIC4N-L2351-RW-UN-WH OR APPROVED EQUAL	4' SURFACE MOUNTED NARROW LED LUMINAIRE WITH 5400 LUMEN, 3500K, 50W, 0-10V DIMMING, 120-277V DRIVER.
(A1)	NEW STAR VIC4N-L2351-RW-UN-WH-EL2 OR APPROVED EQUAL	SAME AS ABOVE EXCEPT WITH EMERGENCY BATTERY BACKUP
(B)	NEW STAR VIC4N-L1351-RW-UN-WH OR APPROVED EQUAL	4' SURFACE MOUNTED NARROW LED LUMINAIRE WITH 2700 LUMEN, 3500K, 25W, 0-10V DIMMING, 120-277V DRIVER.
(B1)	NEW STAR VIC4N-L1351-RW-UN-WH-EL1 OR APPROVED EQUAL	SAME AS ABOVE EXCEPT WITH EMERGENCY BATTERY BACKUP
(C)	NEW STAR VIC2N-L1351-RW-UN-LW OR APPROVED EQUAL	2' SURFACE MOUNTED NARROW LED LUMINAIRE WITH 1100 LUMEN, 3500K, 13W, 0-10V DIMMING, 120-277V DRIVER.
(D)	U.S. ARCHITECTURAL LIGHTING RZRM-PLD-IV-48LED-700MA -WW-277-RAL-8019-T-HS WITH SSA35FJ-4-BM POLE OR APPROVED EQUAL	ARCHITECTURAL LED AREA LUMINAIRE, 12600 LUMEN, 105W, 3000K, 277V WITH HIGH/LOW DIMMING VIA OCCUPANCY SENSOR, ON/OFF PHOTOCCEL CONTROL, TYPE IV DISTRIBUTION & HOUSE SIDE SHEILD WITH 35'-0" SQUARE ALUMINUM POLE.
(D1)	U.S. ARCHITECTURAL LIGHTING RZRM-PLD-II-FR-48LED-700MA -WW-277-RAL-8019-T-HS WITH SSA35FJ-4-BM POLE OR APPROVED EQUAL	ARCHITECTURAL LED AREA LUMINAIRE, 12600 LUMEN, 105W, 3000K, 277V WITH ON/OFF PHOTOCCEL CONTROL, TYPE II (FRONT ROW) DISTRIBUTION & WITH 35'-0" 6" SQUARE ALUMINUM POLE.
(E)	HADCO DB30-H-A0-12L-H OR APPROVED EQUAL	5" DIAMETER, 30" TALL LED BOLLARD WITH 9.5W 800 LM., 2700K, WITH SYMMETRICAL DISTRIBUTION AND 277V NON-DIMMABLE DRIVER

SYMBOLS LIST		
—	BRANCH CIRCUITS CONCEALED IN CEILING OR WALLS, 2 CONDUCTORS WITH CODE SIZE GROUND UNLESS NOTED OTHERWISE. NUMBER NEXT TO LINE INDICATES SIZE OF CONDUCTORS WHEN OTHER THAN #12.	
⊕	DUPLEX RECEPTACLE, 120V, 20A.	+15" TO BOTTOM UNLESS NOTED.
⊕	QUAD RECEPTACLE, 120V, 20A.	+15" TO BOTTOM UNLESS NOTED.
⊕	ASTRONOMICAL TIME SWITCH (SEE LIGHTING CONTROLS SHT E7)	+48" TO TOP UNLESS NOTED.
⊕	OCCUPANCY SENSOR SWITCH (SEE LIGHTING CONTROLS SHT E7)	+48" TO TOP UNLESS NOTED.
⊕	250V NON-FUSIBLE DISCONNECT SWITCH. MATCH PER APPLICATION.	
⊕	JUNCTION BOX.	
▼	TEL/DATA/TV JACK. INSTALL 4" SQUARE DEEP J-BOX WITH 1" CONDUIT W/BUSHING STUBBED INTO ACCESSIBLE CEILING SPACE. SEE NOTES FOR CABLING AND EQUIPMENT REQUIREMENTS.	+15" TO BOTTOM UNLESS NOTED.
▼	TEL/DATA/TV JACK. INSTALL 4" SQUARE DEEP J-BOX WITH 1" CONDUIT W/BUSHING STUBBED INTO ACCESSIBLE CEILING SPACE. SEE NOTES FOR CABLING AND EQUIPMENT REQUIREMENTS.	CEILING MOUNTED
[K]	KEYPAD - PROVIDE J-BOX TO ALLOW FLUSH/SEMIFLUSH MOUNT OF DEVICE. COORDINATE W/ SECURITY CONTRACTOR.	WALL MOUNTED +48" TO TOP
[CCTV]	CCTV - PROVIDE J-BOX W/ SINGLE GANG RING. COORDINATE W/ SECURITY CONTRACTOR.	WALL MOUNTED (VERIFY HEIGHT)
[P]	CCTV - PROVIDE J-BOX W/ SINGLE GANG RING. COORDINATE W/ SECURITY CONTRACTOR.	PENDANT MOUNT (VERIFY HEIGHT)
[S]	SPEAKER - PROVIDE J-BOX. COORDINATE W/ AUDIO CONTRACTOR.	CEILING MOUNTED
[PB]	PANELBOARD.	
[SL]	SURFACE MOUNTED LED LUMINAIRE.	SEE LUMINAIRE SCHEDULE.
[PL]	POLE MOUNTED LED LUMINAIRE.	SEE LUMINAIRE SCHEDULE.
[B]	LED BOLLARD.	SEE LUMINAIRE SCHEDULE.
[S]	EXIT SIGN.	SEE LUMINAIRE SCHEDULE.
[S]	JUNCTION BOX FOR SPEAKER. COORDINATE WITH AV CONTRACTOR	CEILING MOUNTED

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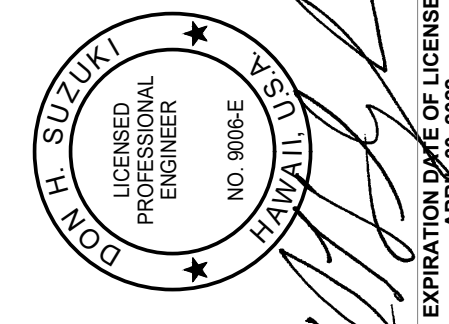
POLO H. SUZUKI
PROFESSIONAL ENGINEER
NO. 9006-E
HAWAII

REVISIONS:
2020-05-05 PERMIT SET
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OVERALL ELECTRICAL POWER PLAN

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



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OVERALL ELECTRICAL POWER PLAN

REVISIONS

2020-05-05 PERMIT SET
AUGUST 7, 2020 BID SET

E-4

SHEET OF

PROJECT NO. 2018-OXX

DATE MAY, 2018

INFORMATION TECHNOLOGY (IT) NOTES

CABLE:

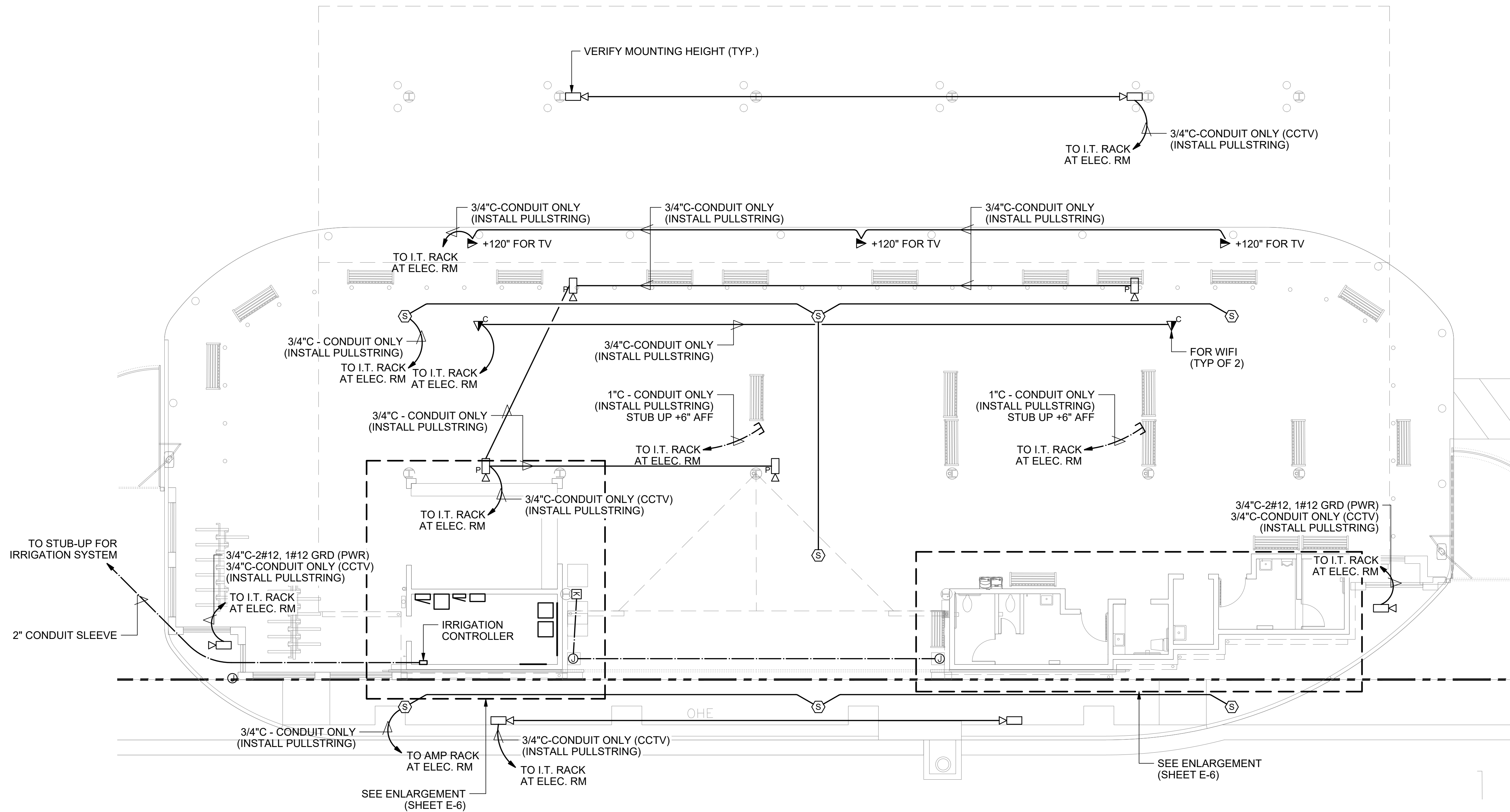
1. ALL CABLES SHALL BE UTP CAT-6 OR BETTER.
2. PLEASE VERIFY IF PLENUM RATED WIRING IS REQUIRED.
3. PLEASE CHECK WITH ITSD STAFF REGARDING WIRE COLOR CONVENTIONS TO BE USED.

OUTLETS:

1. ALL OUTLETS SHALL BE FLUSH 2-GANG DATA DEVICE PLATES.
2. ALL DATA OUTLETS SHALL USE MODULAR CAT-6 RATED JACKS, LEVITON BRAND APPROVED EQUAL.
 - a. LEVITON EXTREME CAT6 UTP QUICKPORT CONNECTOR PART #61110-xx6*

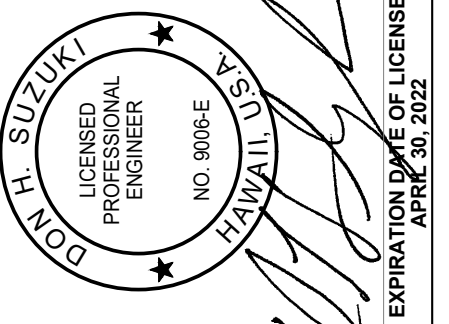
TERMINATION:

1. ALL WIRING SHALL BE TERMINATED USING THE 568-B CONNECTION STANDARD.
2. ALL WIRING SHALL BE ID'D ON BOTH TERMINATION ENDS OF THE CABLE.
3. ALL PORTS ON WALL MOUNTED JACKS AND PATCH PANELS SHALL BE MARKED WITH THE CABLE ID.
4. PLEASE CHECK WITH ITSD STAFF FOR THE WIRE ID CONVENTION TO BE USED.
5. IF NO TERMINATION IN DATA CENTER OR COMMUNICATIONS ROOM IS REQUIRED, PLEASE CHECK WITH ITSD STAFF FOR REQUIRED SLACK LENGTH.



OVERALL ELECTRICAL LOW VOLTAGE PLAN

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



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 HAR 16-115-2
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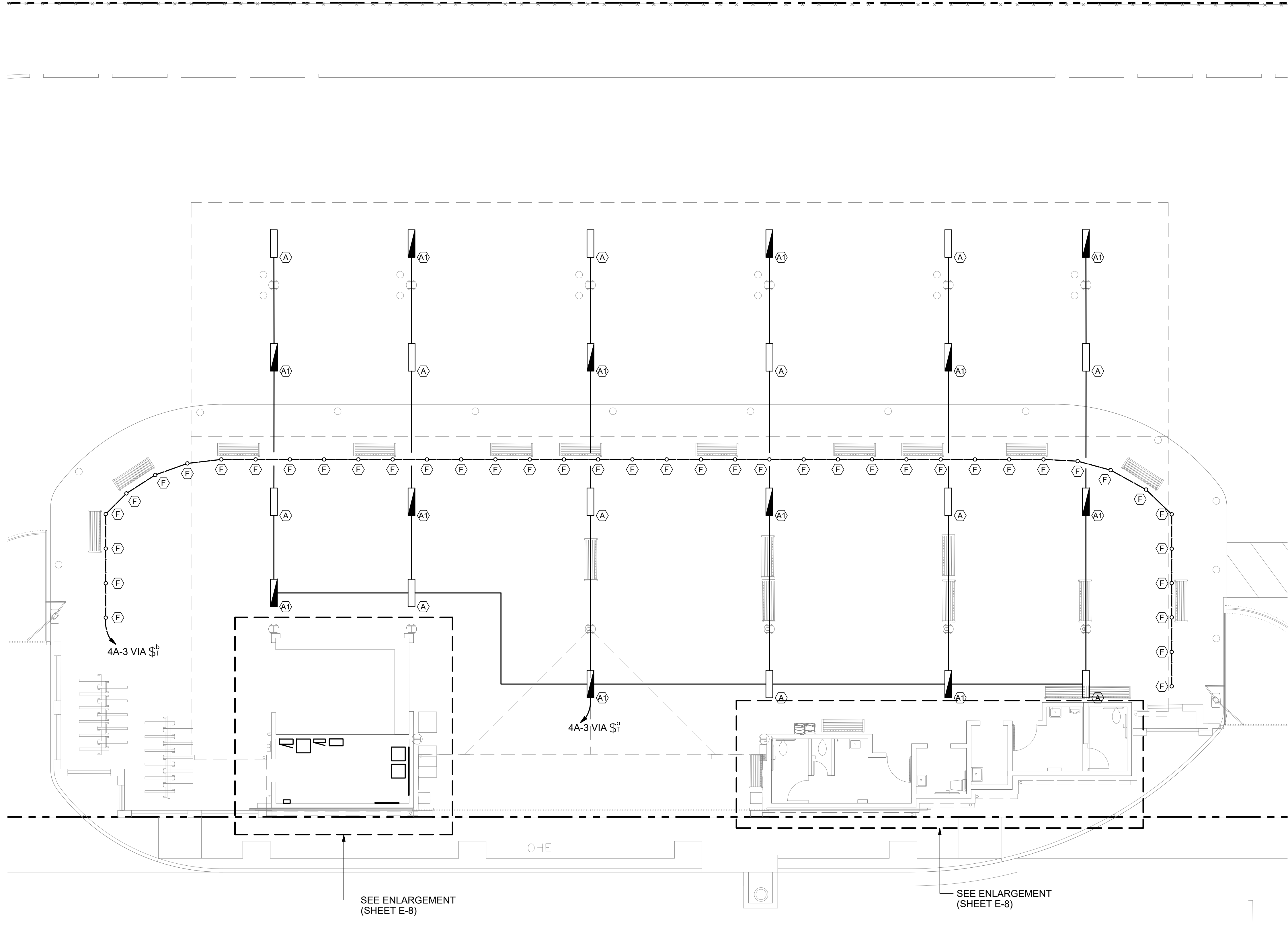
OVERALL ELECTRICAL LOW-VOLTAGE PLAN

REVISIONS

2020-05-05 PERMIT SET
 AUGUST 7, 2020 BID SET

E-5
 SHEET

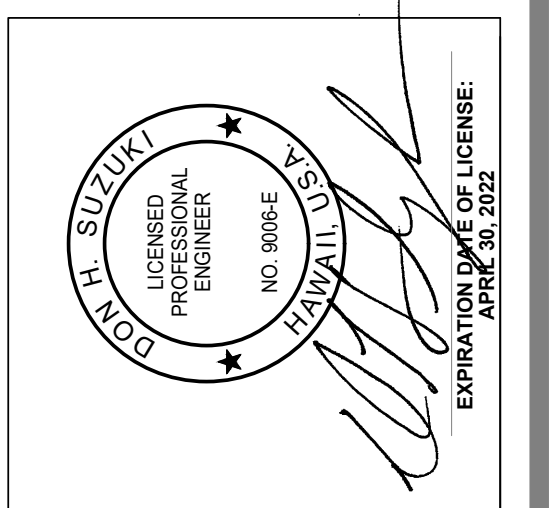
OF
 PROJECT NO. 2018-0XX
 DATE MAY, 2018



OVERALL ELECTRICAL LIGHTING PLAN

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

**RIECKE
SUNNLAND
ARCHITECTS, KONO
LTD.**
33 LONG AVENUE STE 200
KAHULUI, MAUI, HAWAII 96733-1627
TELEPHONE (808) 877-6888



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OVERALL ELECTRICAL LIGHTING PLAN

REVISIONS

2020-05-05 PERMIT SET
AUGUST 7, 2020 BID SET

E-6

SHEET OF

PROJECT NO. 2018-OXX

DATE MAY, 2018

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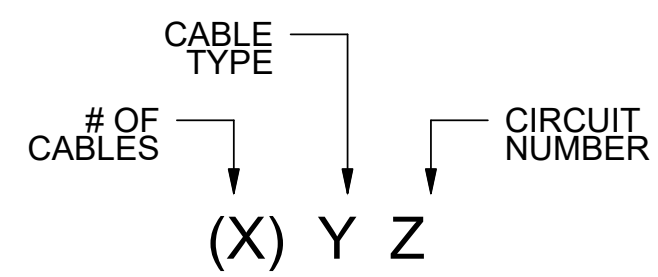
FIRE ALARM SYSTEM NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING & INSTALLING A COMPLETE AND FUNCTIONING F.A. SYSTEM. THIS INCLUDES ALL PARTS AND PROGRAMMING NECESSARY TO INTERFACE ALL DEVICES.
2. WIRING TO BE CONCEALED IN WALL AND CEILINGS. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL SPLICING, TERMINATIONS, ETC. TO BE DONE IN JUNCTION BOXES.
3. ALL WORK TO COMPLY WITH NFPA 70 (NATIONAL ELECTRICAL CODE), NFPA 72 (NATIONAL FIRE ALARM CODE), MANUFACTURER'S INSTRUCTIONS, AND ANY OTHER APPLICABLE CODE OR STANDARDS.
4. CONTRACTOR TO PROVIDE 2 HOURS OF TRAINING FOR 4 PEOPLE ON OPERATION AND MAINTENANCE OF THE FIRE ALARM SYSTEM. TRAINER TO BE CERTIFIED TECHNICIAN OR OF EQUAL QUALIFICATION. COORDINATE TRAINING WITH OWNER.
5. F.A. SYSTEM PROGRAMMING AND START-UP TO BE PERFORMED BY CERTIFIED TECHNICIAN. ALL SYSTEM TESTING, INCLUDING ACCEPTANCE AND FIRE DEPARTMENT APPROVAL TO BE PERFORMED BY A CERTIFIED TECHNICIAN.
6. COORDINATE ALL WORK WITH OTHER TRADES (FIRE SPRINKLER, DRY-WALL, ETC.).
7. CONTRACTOR TO FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS.
8. PROVIDE WEATHER-PROOF COVER FOR ALL FIRE ALARM DEVICES INSTALLED OUTDOORS (DEVICES INSTALLED INDOORS DO NOT REQUIRE PROTECTION).
9. EQUIPMENT SUPPLIER TO PROVIDE SHOP DRAWINGS FOR APPROVAL.
10. FIRE ALARM SYSTEM TO BE MONITORED 24/7 BY A CERTIFIED/LICENSED MONITORING COMPANY.

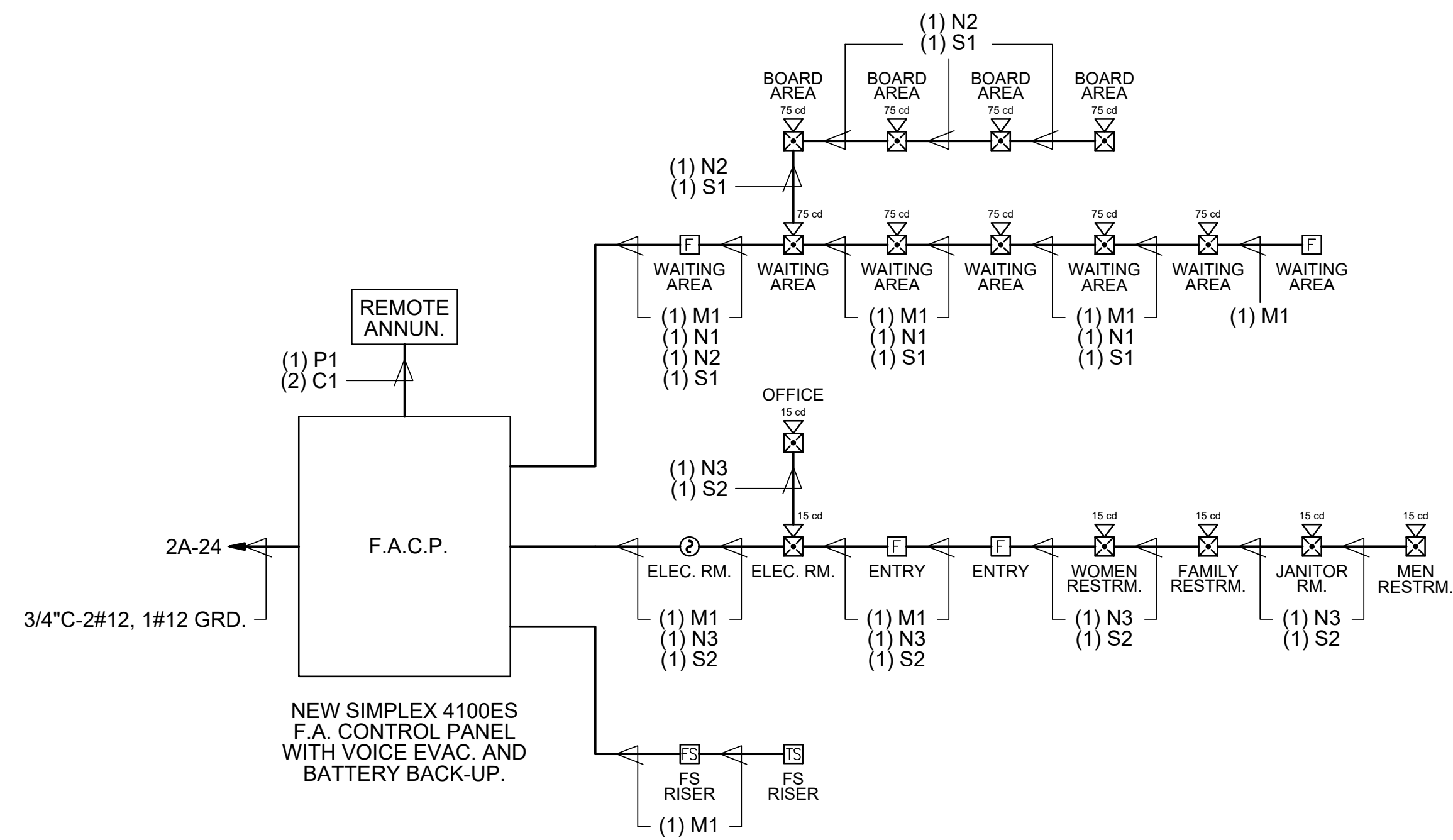
F.A. SYSTEM SYMBOLS LIST

- SIMPLEX 4100ES ADDRESSABLE (INITIATING & NOTIFICATION) FIRE ALARM CONTROL PANEL WITH VOICE EVAC AND BATTERY BACK-UP.
 - SIMPLEX 4602 SERIES REMOTE ANNUNCIATOR.
 - Ⓜ SIMPLEX SMOKE DETECTOR: CEILING MOUNTED, ADDRESSABLE, PHOTOELECTRIC SMOKE SENSOR AND BASE.
 - Ⓜ SIMPLEX MANUAL PULL STATION: ADDRESSABLE, ADA ACCESSIBLE, SINGLE ACTION MANUAL STATION. WALL MOUNT AT +48" (TO TOP OF DEVICE) AFF.
 - FS SIMPLEX INDIVIDUAL ADDRESSABLE MODULE: ADDRESSABLE, SUPERVISED. (ATTACH TO FLOW SWITCH).
 - TS SIMPLEX INDIVIDUAL ADDRESSABLE MODULE: ADDRESSABLE, SUPERVISED. (ATTACH TO TAMPER SWITCH).
 - 75 od SIMPLEX ADDRESSABLE SPEAKER/STROBE: ADDRESSABLE MULTI-WATT SPEAKER ADDRESSABLE SYNCHRONIZED STROBE, INTENSITY AS NOTED. WALL MOUNTED AT +84" (TO BOTTOM OF DEVICE) AFF.
 - 15 od SIMPLEX ADDRESSABLE STROBE: ADDRESSABLE SYNCHRONIZED STROBE, INTENSITY AS NOTED. WALL MOUNTED AT +84" (TO BOTTOM OF DEVICE) AFF.
- NOTE: PROVIDE UL LISTED WEATHER-PROOF COVER/ENCLOSURE FOR ALL EXTERIOR MOUNTED FIRE ALARM DEVICES.

F.A. SYSTEM WIRING LEGEND

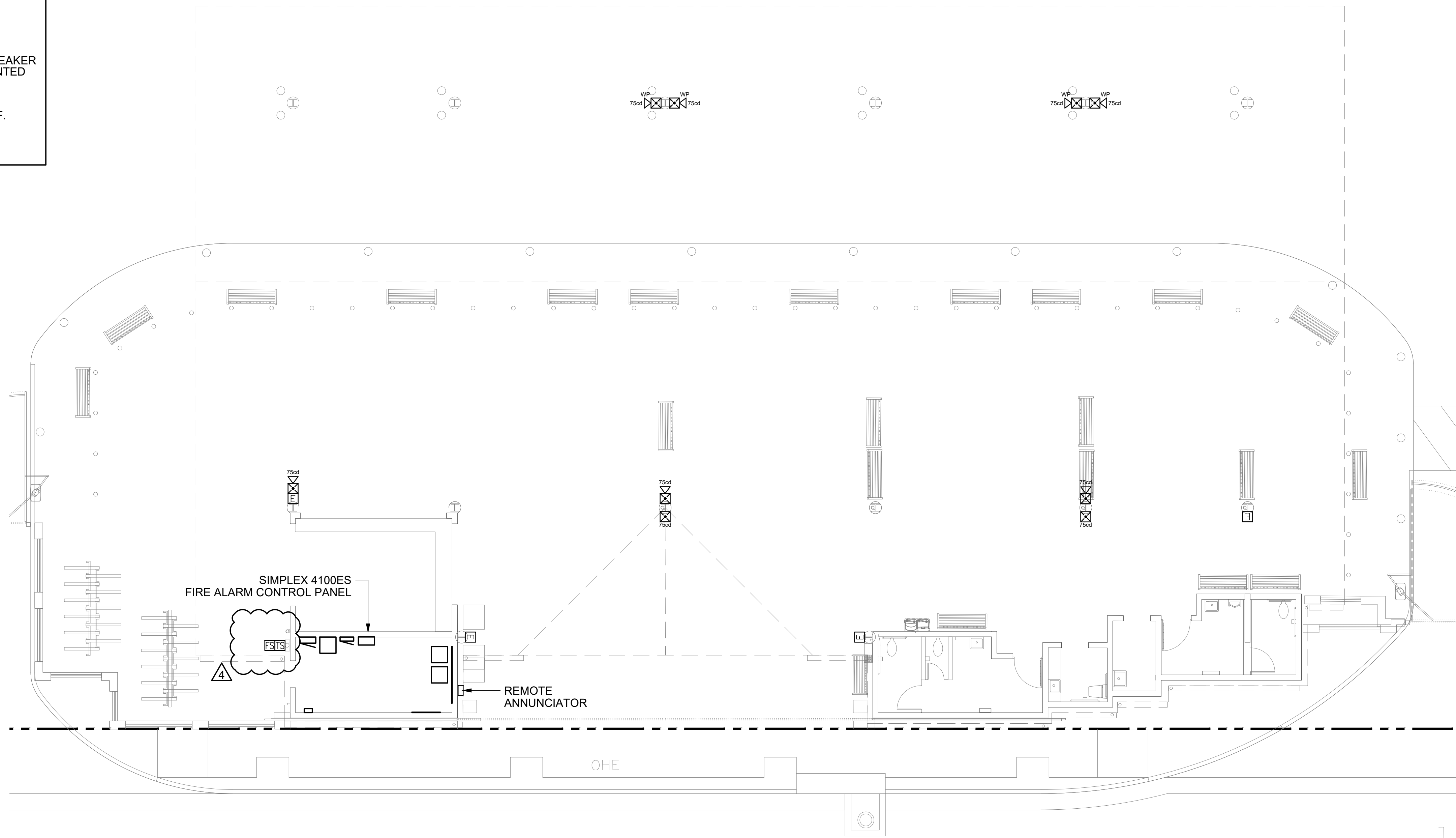


- (1) M - MAPNET II CIRCUIT. 1#18 AWG TWISTED SHIELDED PAIR (TSP) CABLE.
- (1) N - NOTIFICATION CIRCUIT. 1#12 AWG UNSHIELDED TWISTED PAIR (UTP) CABLE.
- (1) S - ADDRESSABLE SPEAKER CIRCUIT. 1#12 AWG TWISTED SHIELDED PAIR (TSP) CABLE.
- (1) C - COMMUNICATION CIRCUIT. 1#18 AWG TWISTED SHIELDED PAIR (TSP) CABLE.
- (1) P - POWER SUPPLY CIRCUIT. 2#14 AWG CONDUCTOR CABLE.



FIRE ALARM RISER DIAGRAM

NOT TO SCALE



OVERALL FIRE ALARM PLAN

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

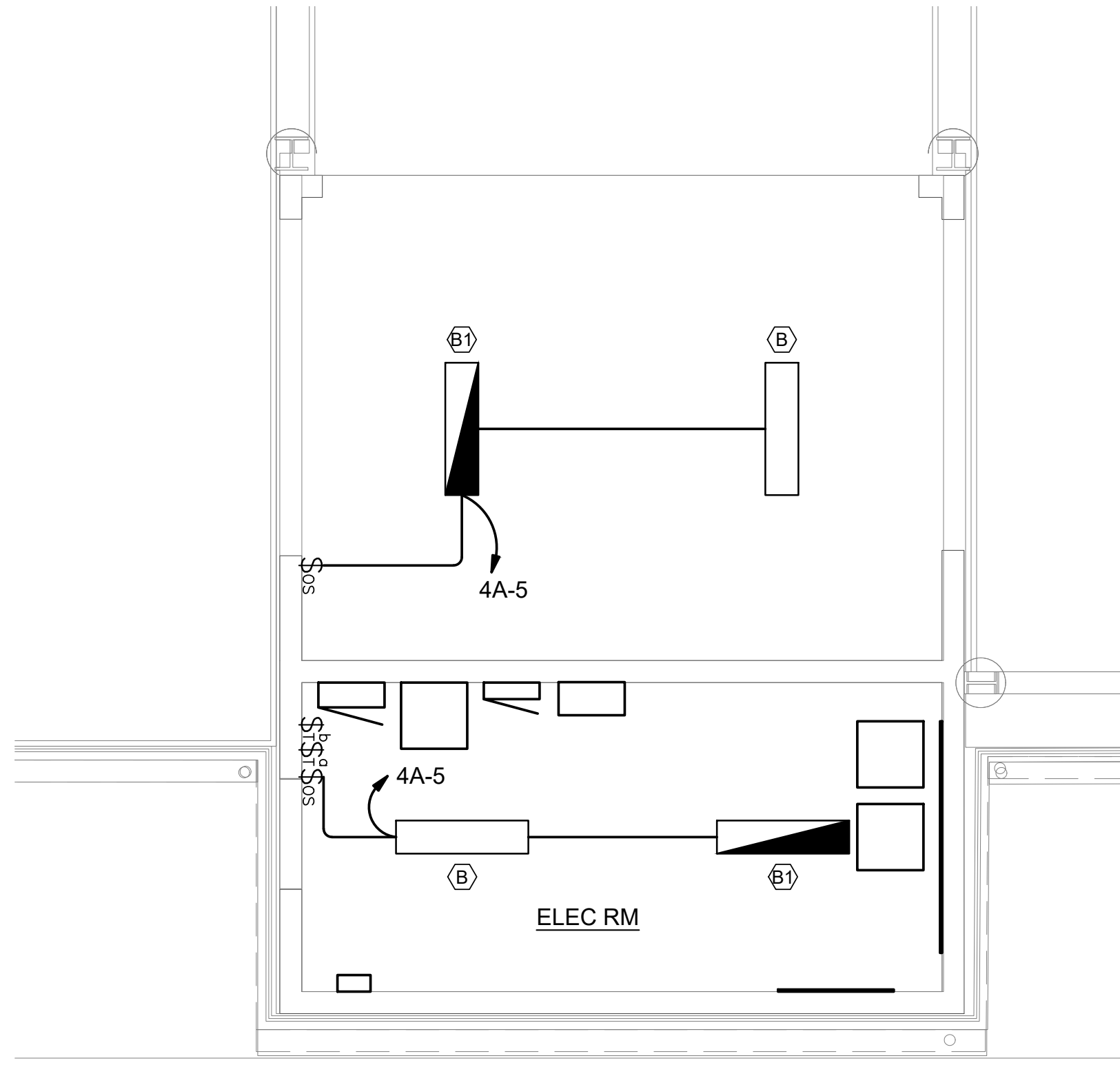
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BOB H. SUZUKI
 PROFESSIONAL ENGINEER
 NO. 9006-E
 HAWAII
 EXPIRATION DATE OF LICENSE: APRIL 30, 2022

REVISIONS

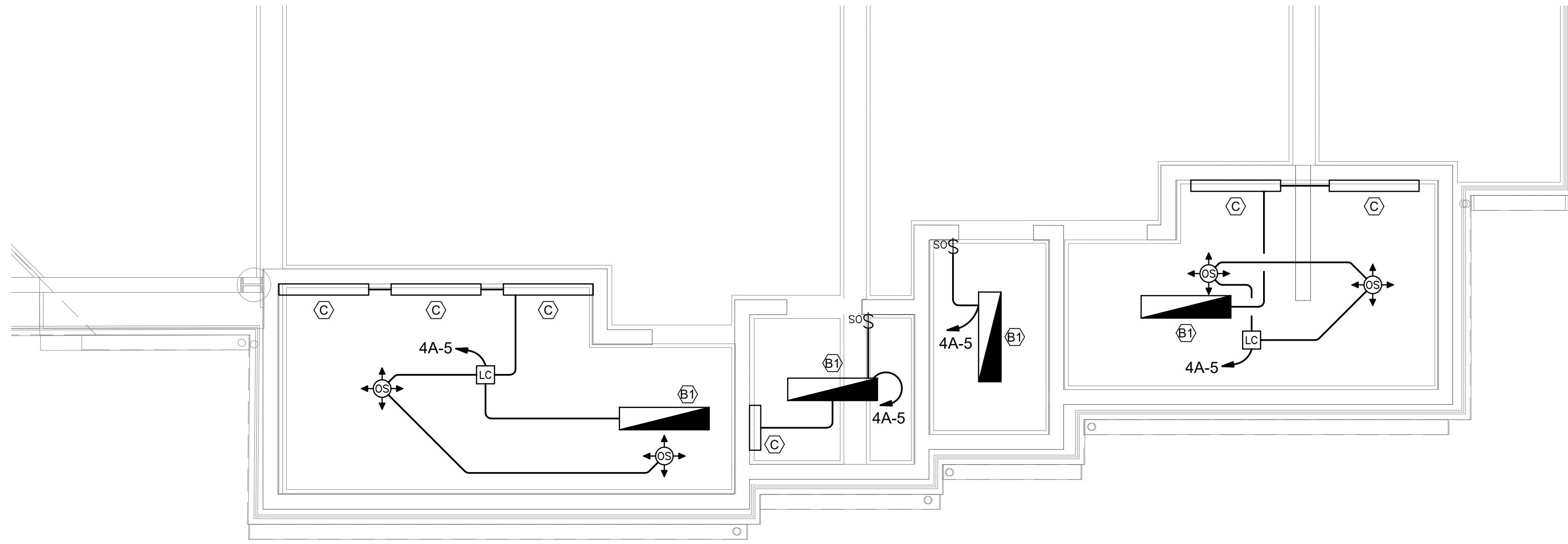
2020-05-05 PERMIT SET	
AUGUST 7, 2020 BID SET	
2020-10-08 FD COMMENTS	

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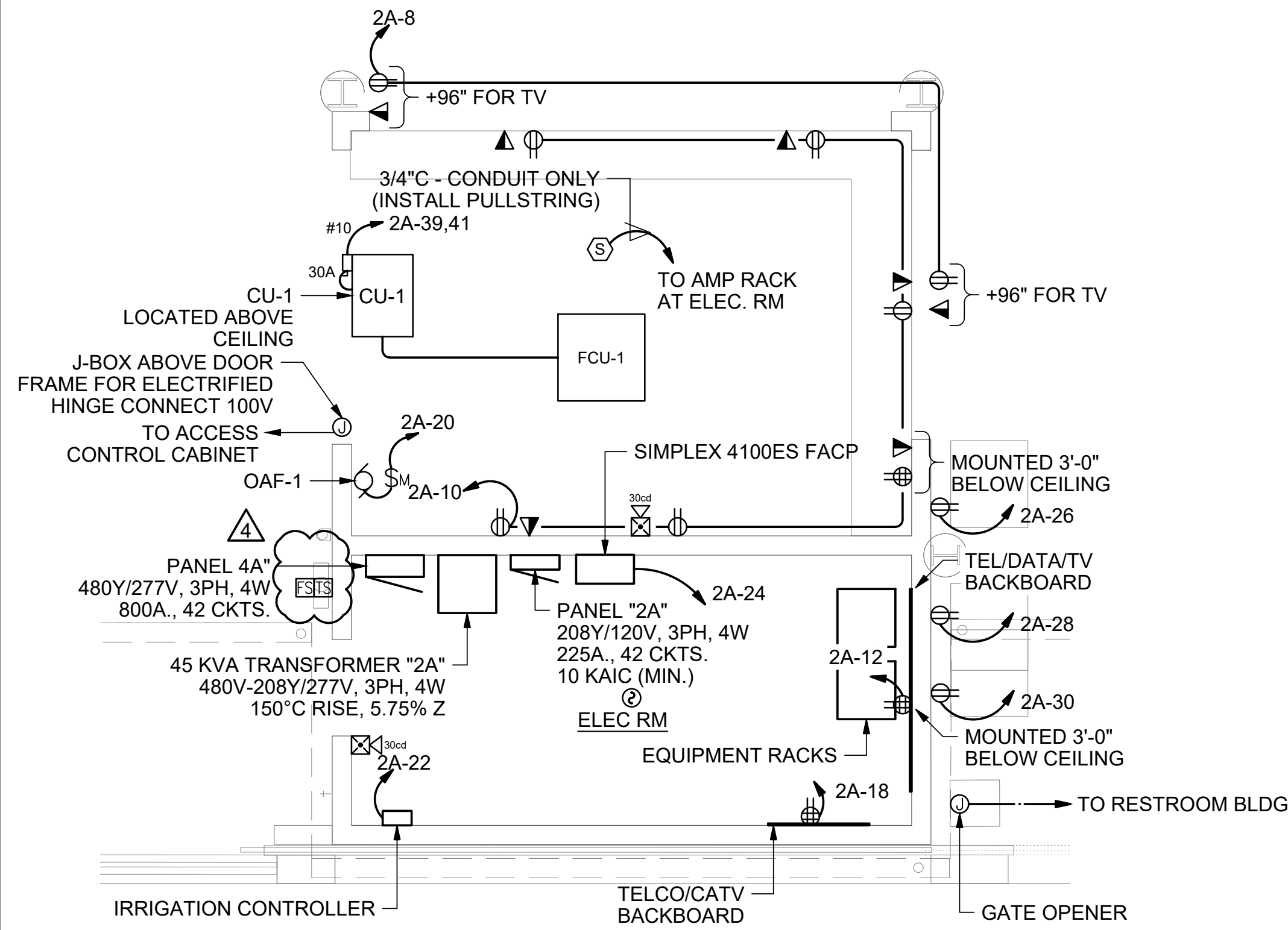
**OFFICE
ELECTRICAL LIGHTING PLAN**

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



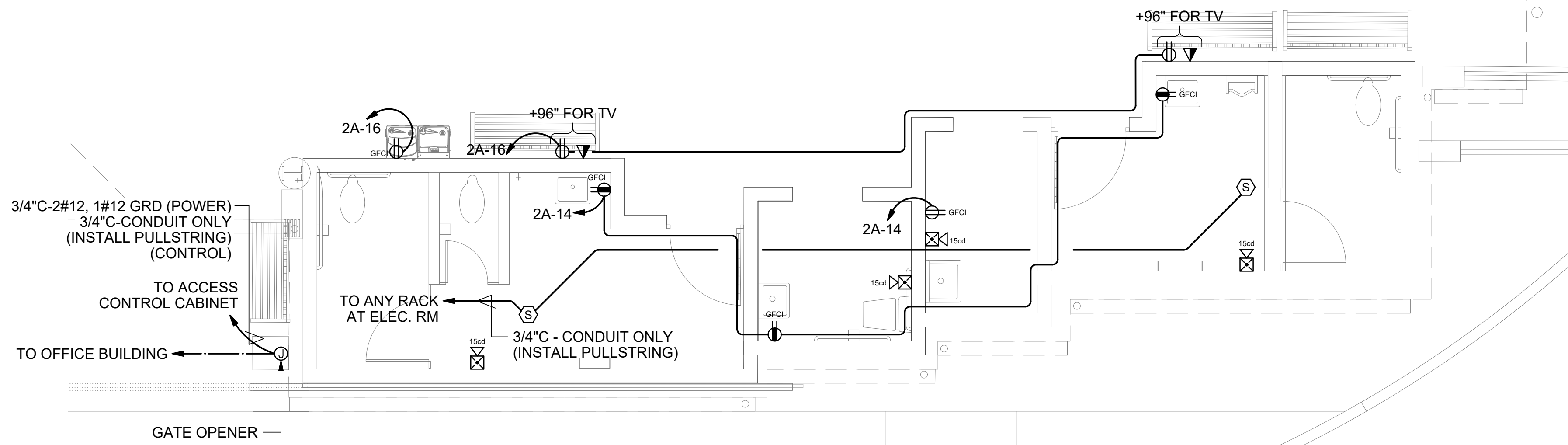
**RESTROOM
ELECTRICAL LIGHTING PLAN**

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



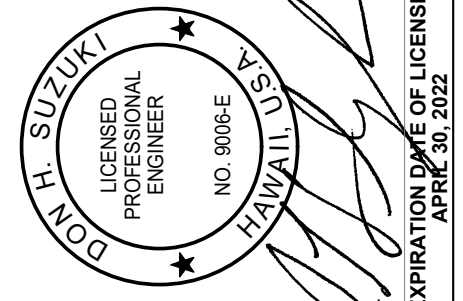
**OFFICE
ELECTRICAL POWER/LOW VOLTAGE PLAN/FIRE ALARM PLAN**

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



**RESTROOM
ELECTRICAL POWER/LOW VOLTAGE PLAN/FIRE ALARM PLAN**

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



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CONSTRUCTION
OF THIS
PROJECT WILL
BE UNDER MY
OBSERVATION
AS DEFINED IN
HAR-16-115-2

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ENLARGED LIGHTING AND LOW-VOLTAGE PLANS

REVISIONS

- 2020-05-05 PERMIT SET
- AUGUST 7, 2020 BID SET
- 2020-10-09 FD COMMENTS

THE REVISIONS TO THIS DRAWING IS ON FILE AT THE OFFICE OF RIECKE SUNNLAND ARCHITECTS, LTD. FOR THE RECORD. ANY CHANGES TO THIS DRAWING SHALL BE IN ACCORDANCE WITH THE PROFESSIONAL ENGINEER'S SIGNATURE AND SEAL. THIS DOCUMENT IS RELEASED FOR THE PURPOSES OF REFERENCE, COORDINATION, AND/OR FACILITY MANAGEMENT. ANY OTHER USES OF THIS DOCUMENT ARE THE RESPONSIBILITY OF THE USER.

E-8

SHEET OF

PROJECT NO. 2018-OXX

DATE: MAY, 2018

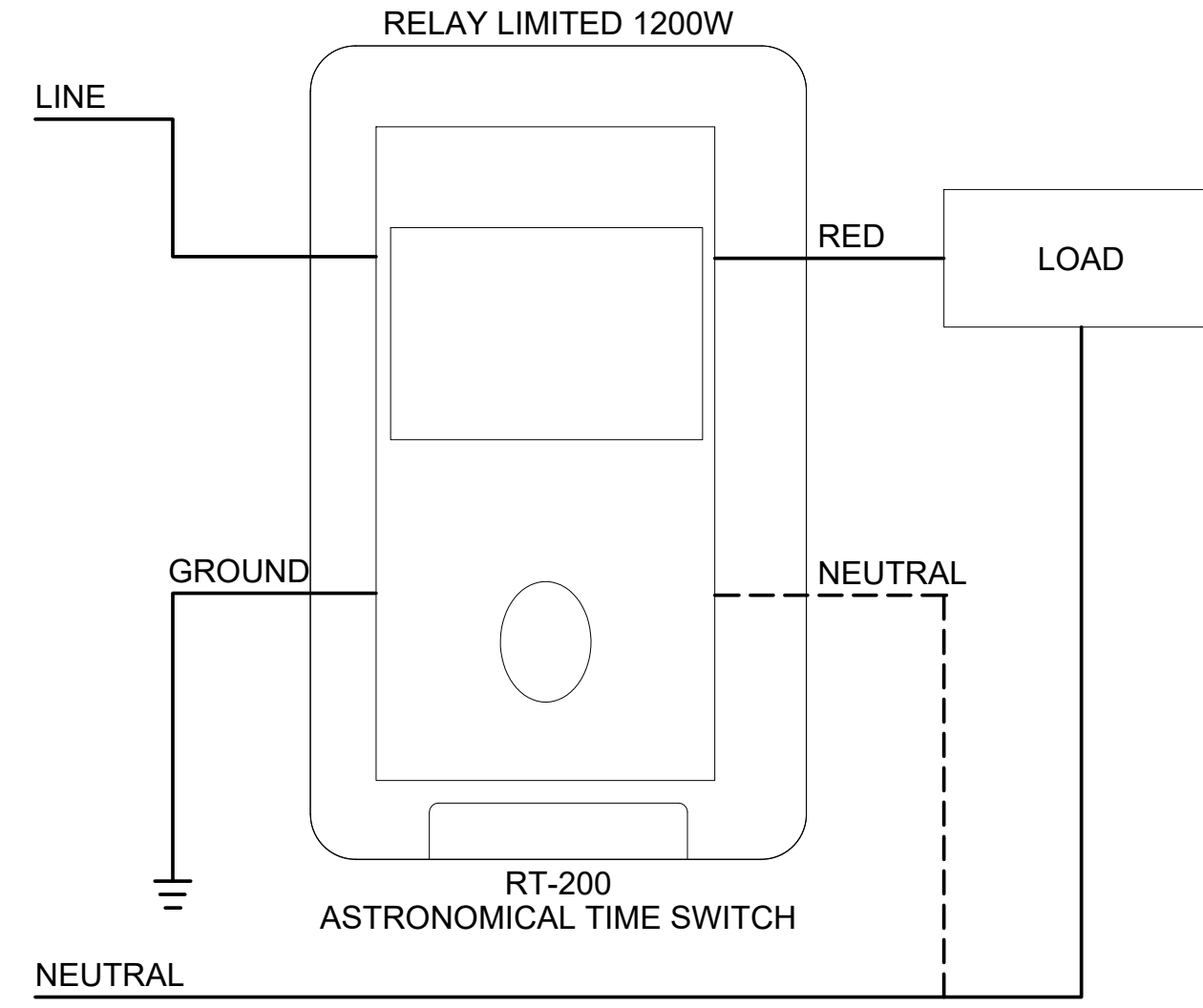
SEQUENCE OF OPERATION:
 EXTERIOR POLE LIGHTS - AUTO ON/OFF VIA PHOTOCCELL. HIGH/LOW (DIM) AFTER TIME (DURING THE NIGHT) VIA OCCUPANCY SENSOR.

RESTROOMS - AUTO ON/OFF VIA SENSORS

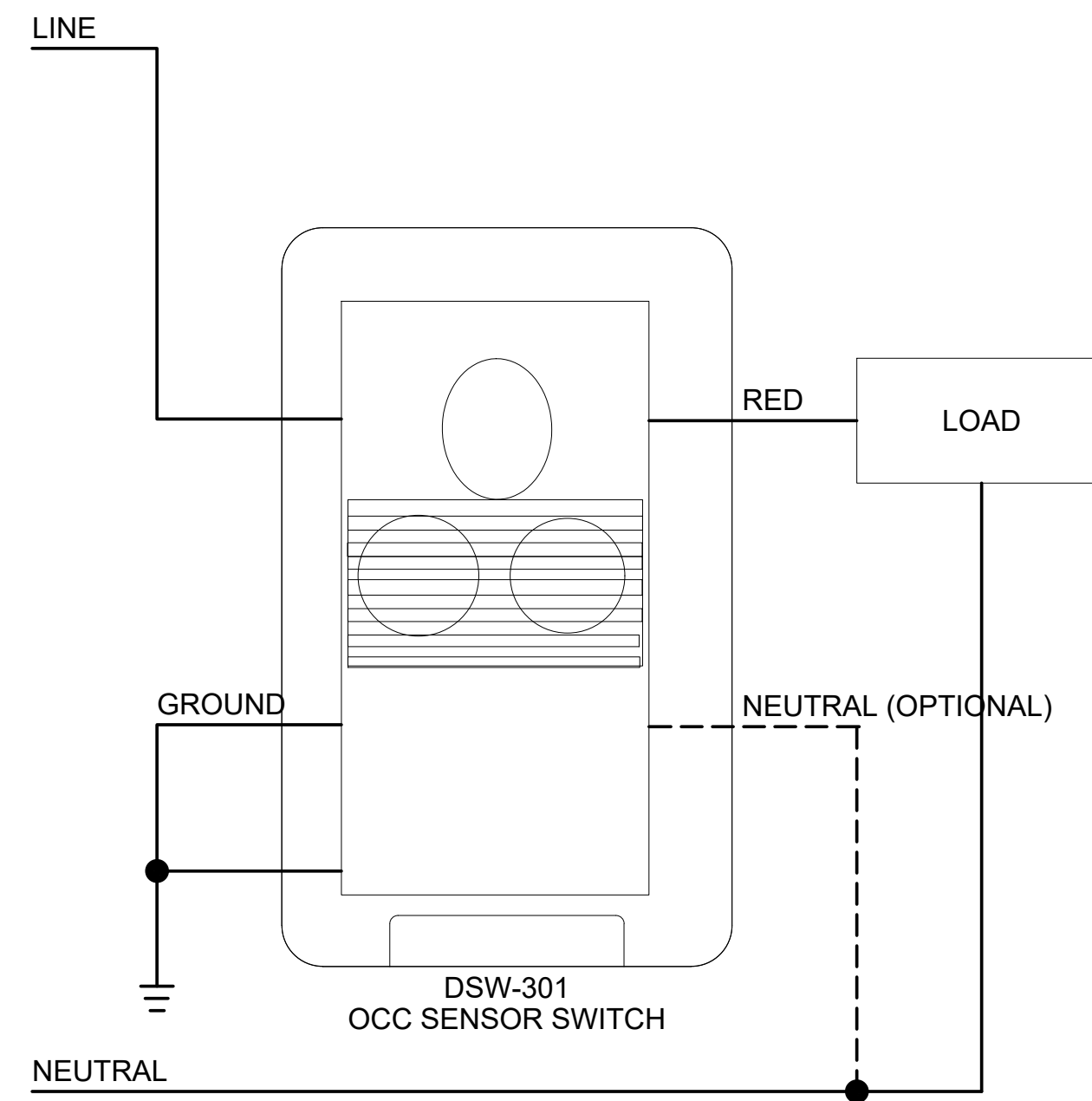
UNDER CANOPY LINEAR LIGHTS/BOLLARD - AUTO ON/OFF VIA ASTRONOMICAL TIMESWITCH (RT-200)

STORAGE ROOM - AUTO ON/OFF VIA SENSOR SWITCH

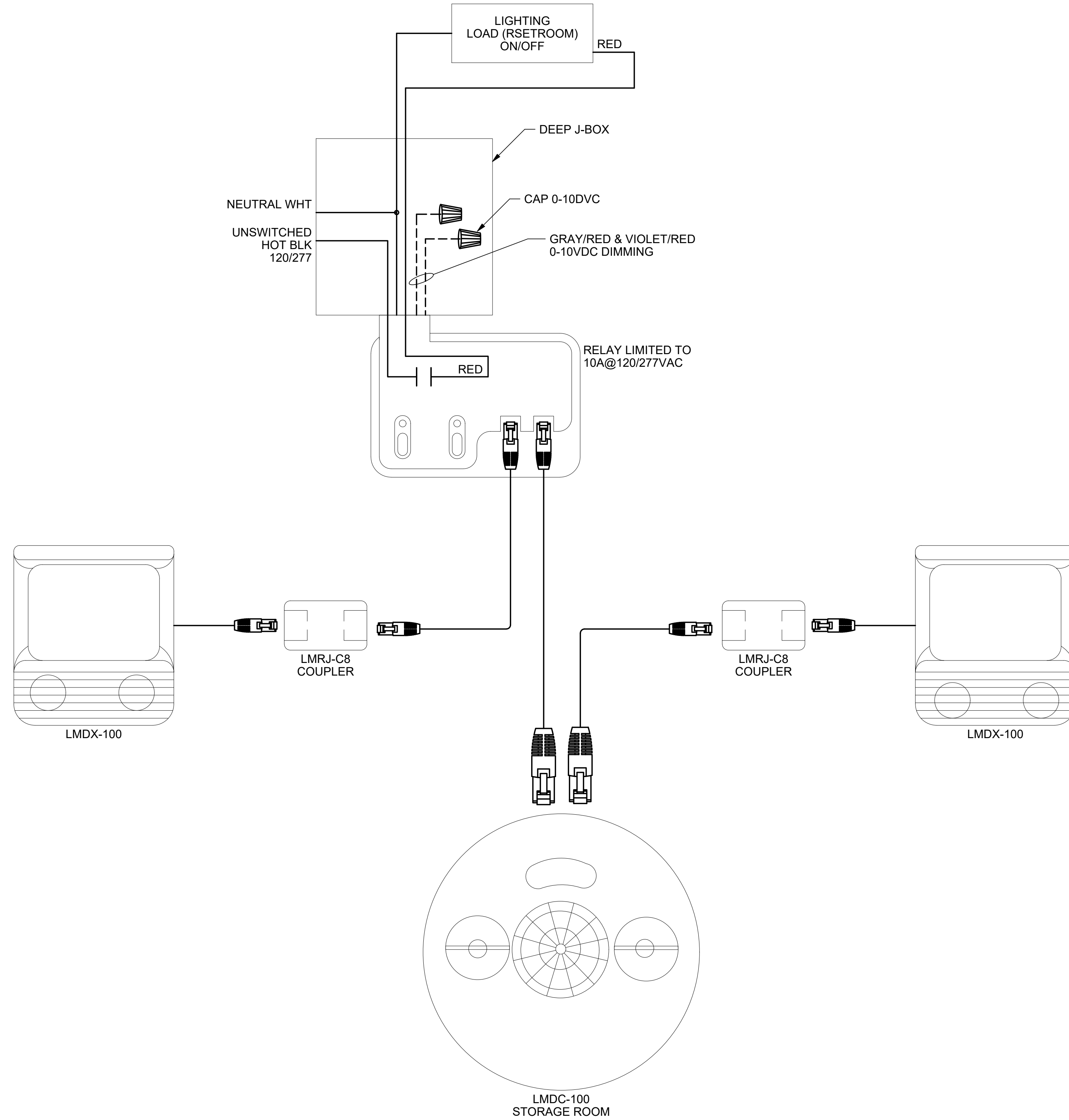
SENSOR TIME DELAY CAN BE SET (1-30 MIN), DEFAULT SETTING IS 20 MIN.



MAIN UNDER CANOPY LIGHTS/BOLLARD

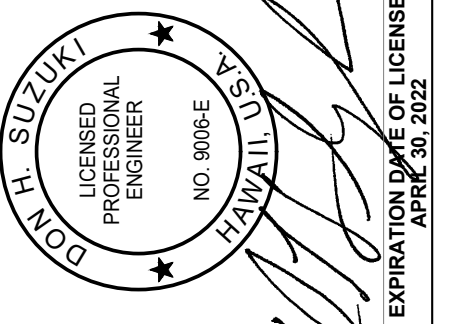


STORAGE



RESTROOMS

LIGHTING CONTROL DIAGRAM
 NOT TO SCALE



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LIGHTING CONTROLS DIAGRAM

REVISIONS
 2020-05-05 PERMIT SET
 AUGUST 7, 2020 BID SET

COMcheck Software Version 4.0.6.0
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title:
 Project Type: New Construction
 Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package
 Enhanced Interior Lighting Controls

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Transportation:Terminal - Ticket Counter	270	0.80	216
2-Common Space Types:Restrooms	404	0.98	396
3-Manufacturing:Equipment Room	181	0.74	134
Total Allowed Watts =			746

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Transportation:Terminal - Ticket Counter LED 1: B/B1: Other:	1	2	25	50
2-Common Space Types:Restrooms LED 2: B/B1: Other: LED 3: C: Other:	1	4	25	100
	1	5	13	65
3-Manufacturing:Equipment Room LED 4: B/B1: Other:	1	2	25	50
Total Proposed Watts =				265

Interior Lighting PASSES: Design 64% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.6.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: _____ Report date: 03/18/20
 Data filename: Untitled.cck Page 1 of 7

COMcheck Software Version 4.0.6.0
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title:
 Project Type: New Construction
 Exterior Lighting Zone: 3 (Other)
 Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Free standing/attached sales canopy	11360 ft ²	0.8	Yes	9088
Total Tradable Watts (a) =				9088
Total Allowed Watts =				9088
Total Allowed Supplemental Watts (b) =				750

Proposed Exterior Lighting Power

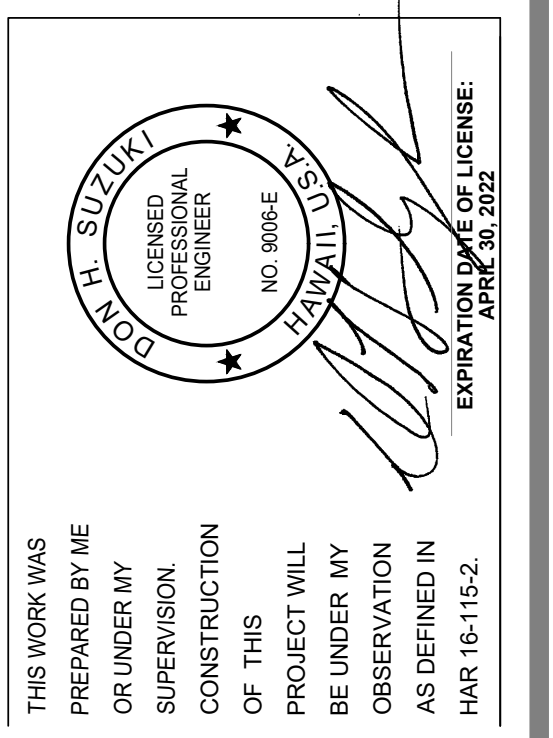
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Free standing/attached sales canopy (11360 ft ²): Tradable Wattage				
LED 1: AA1: Other:	1	13	50	650
LED 2: D/D1: Other:	1	4	105	420
Total Tradable Proposed Watts =				1070

Exterior Lighting PASSES: Design 89% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.6.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: _____ Report date: 03/18/20
 Data filename: Untitled.cck Page 2 of 7



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LIGHTING CALCULATIONS

REVISIONS
 2020-05-05 PERMIT SET
 AUGUST 7, 2020 BID SET