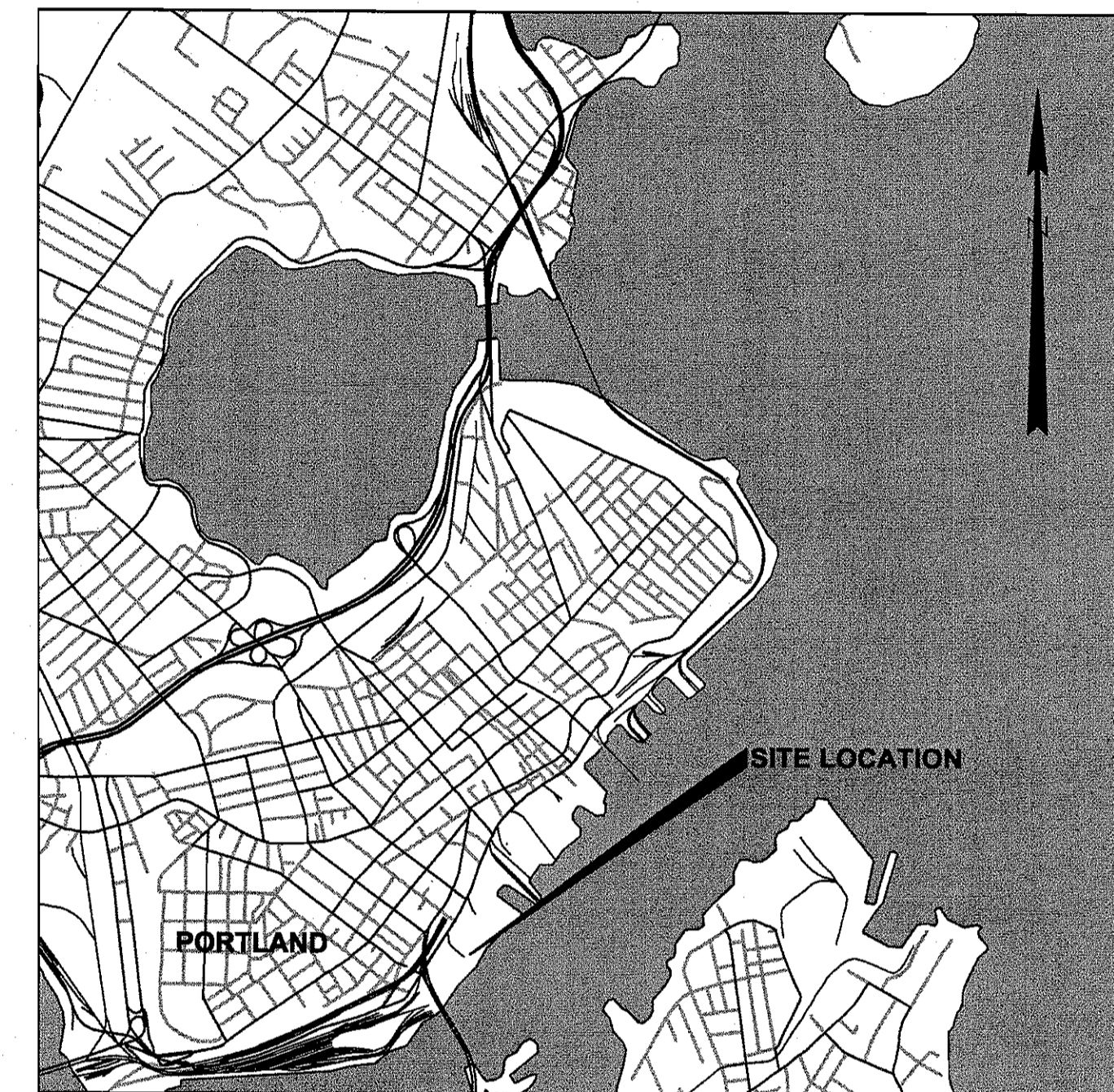
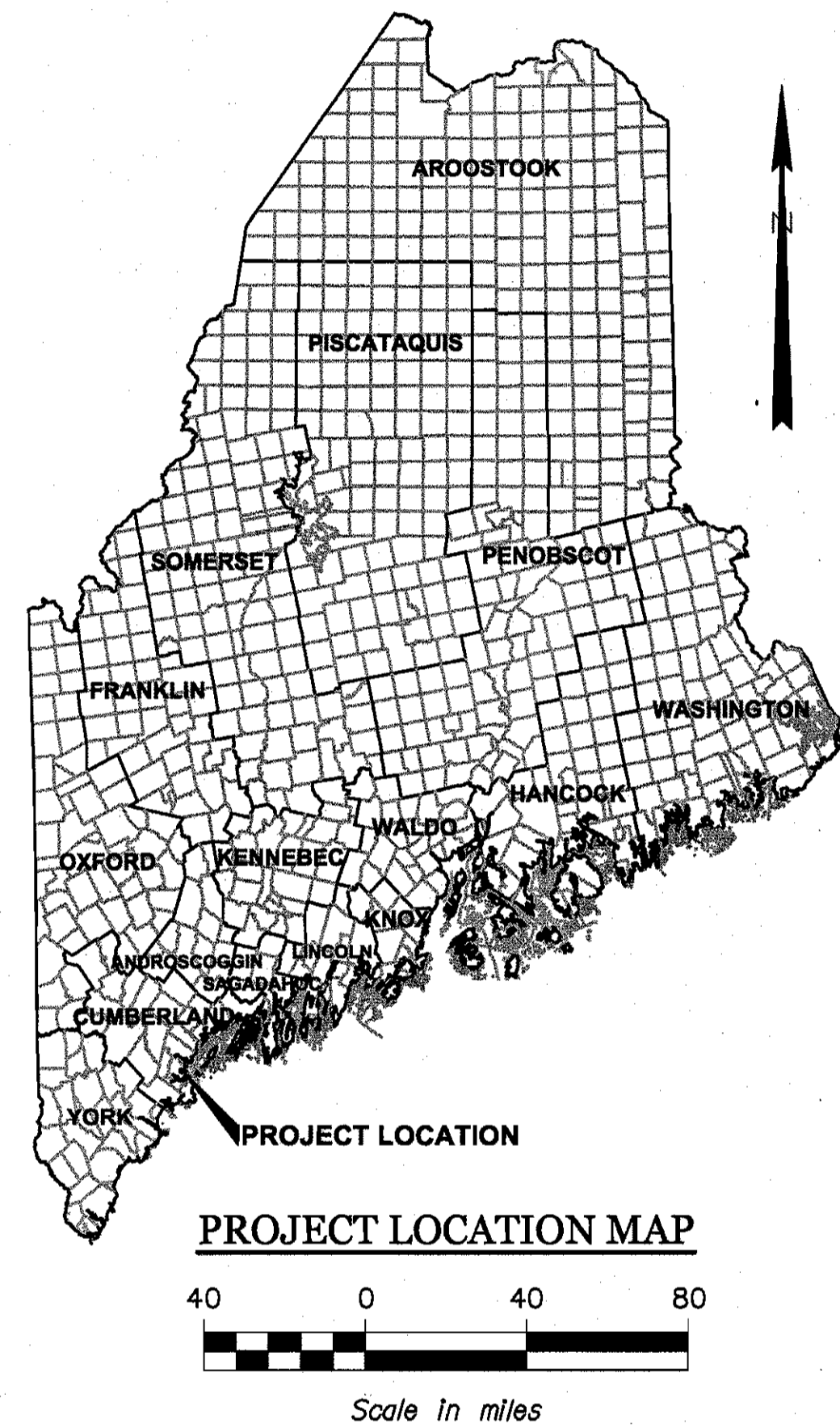


STATE OF MAINE DEPARTMENT OF TRANSPORTATION



CITY OF PORTLAND CUMBERLAND COUNTY

PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS PIN: 017820.00



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]*
COMMISSIONER: *[Signature]*
DATE: 6/13/11

CHIEF ENGINEER: *[Signature]*
DATE: 6/11/11

PROJECT INFORMATION

MULTIMEDIA: *[Signature]*
SIGNATURE: *[Signature]*
P.E. NUMBER: 6272
DATE: 6/12/11

ROLAND A. LAVELLE
No. 0465
LICENSED PROFESSIONAL ENGINEER

PROGRAM: MULTIMEDIA
PROJECT MANAGER: PAUL D. POTTE
DESIGNER: CRAIG R. MORIN, P.E.
CONSULTANT: HNTB CORP.
PROJECT RESIDENT: *[Signature]*
CONTRACTOR: *[Signature]*
PROJECT COMPLETION DATE: -

PIN 017820.00

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY

TITLE/INDEX SHEET

SHEET NUMBER
G1
1 OF 71

GENERAL NOTES:

- THESE DRAWINGS FORM PART OF THE CONTRACT DOCUMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ELEVATIONS AND SOUNDINGS ARE IN FEET BASED ON PROJECT DATUM, NGVD29.
- CONTRACTOR SHALL MAINTAIN ADEQUATE SURVEY CONTROL AT ALL TIMES TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.
- ALL DIMENSIONS, ELEVATIONS & CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- ALL NORTH ARROWS SHOWN ARE GRID NORTH BASED ON NAD83.
- THE EXACT SIZE & LOCATION OF ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES PRESENT AND ALL CONSTRUCTION SHALL BE COORDINATED WITH THE RESIDENT.
- EXISTING FEATURES WERE SURVEYED BY JAMES D. NADEAU, LLC UNDER SUBCONTRACT TO THE MAINE PORT AUTHORITY BETWEEN OCTOBER 2010 AND NOVEMBER 2010 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE FACILITIES AND THEIR COMPONENTS DURING DEMOLITION AND ERECTION UNLESS OTHERWISE DIRECTED BY THE RESIDENT. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- METHODS OF DEMOLITION, CONSTRUCTION AND ERECTION ARE THE CONTRACTOR'S RESPONSIBILITY UNLESS OTHERWISE SPECIFIED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND MAINTAIN ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL, STATE AND MUNICIPAL REGULATIONS AND PERMITS. ENVIRONMENTAL CONTROLS SHALL INCLUDE BUT NOT BE LIMITED TO NOISE, TURBIDITY, LIQUIDS AND DUST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO STRUCTURES AND VESSELS OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY FACILITIES FOR THE PROTECTION OF THE WORK, WORKERS AND PUBLIC SAFETY.
- ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS AND PERMITS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR, SAFETY, AND HEALTH, U.S. ARMY CORPS OF ENGINEERS, AND STATE/LOCAL WETLANDS CONTROL.
- THE CONTRACTOR MAY BE CHARGED ANY ADDITIONAL COST OF REINSPECTION OR RETEST WHEN PRIOR REJECTION MAKES REINSPECTION OR RETEST NECESSARY.
- PILE DRIVING, DRILLING, AND OTHER CONSTRUCTION ACTIVITY WHICH GENERATES LOUD NOISE OR VIBRATION ARE LIMITED TO THE HOURS NOTED IN THE SPECIFICATIONS.
- THE PORTLAND INTERNATIONAL MARINE TERMINAL IS IN COMPLIANCE WITH MTA 33 CFR PART 105. SPECIFIC DESIGN DETAILS AND CONSTRUCTION SEQUENCING ARE PROVIDED TO ENSURE COMPLIANCE IS MAINTAINED THROUGHOUT THE PROJECT. CONTRACTOR MAY PROPOSE VARIATIONS TO THE CONSTRUCTION PHASES SHOWN HEREIN UPON COMMENCEMENT OF CONSTRUCTION ACTIVITIES BUT SHALL NOT ASSUME THAT PROPOSED VARIATIONS WILL BE AUTHORIZED. ALL ACTIVITIES SHALL BE COORDINATED WITH THE PORT OPERATOR.
- THE CONTRACTOR, ITS EMPLOYEES, AND SUBCONTRACTORS SHALL OBTAIN SECURITY PASSES INCLUDING TWIC CARDS AND CITY OF PORTLAND ID'S FOR THE DURATION OF THE PROJECT. NO PERSONNEL WILL BE PERMITTED OUTSIDE THE DESIGNATED PRIMARY CONSTRUCTION ZONE WITHOUT THE REQUIRED SECURITY PASS.
- THE CONTRACTOR MAY BE REQUIRED TO RELOCATE TEMPORARY FENCING AND STAGING AREAS ALONG THE PIER IN THE EVENT THE OWNER REQUIRES ADDITIONAL SPACE FOR CRANE OPERATIONS. THE OWNER WILL PROVIDE THE CONTRACTOR WITH A VESSEL SCHEDULE WITH WEEKLY UPDATES.
- THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES DURING THE PROJECT. PERIODIC SWEEPING OF PAVEMENT SURFACES WITHIN THE CONSTRUCTION AREA AND ON COMMERCIAL STREET MAY BE REQUIRED DURING CONSTRUCTION AS DIRECTED BY THE RESIDENT AND REQUIRED BY MAINE DOT EROSION CONTROL SPECIFICATIONS.
- ALL WORK ADJACENT TO OR WITHIN THE FORE RIVER REQUIRES ALL PERSONNEL TO WEAR NECESSARY FLOATATION EQUIPMENT AND/OR HARNESSSES. THE CONTRACTOR SHALL PROVIDE A WORK SAFETY PLAN TO THE RESIDENT FOR APPROVAL PRIOR TO WORK.
- WHERE DRILLING AND ANCHORING OF REINFORCING STEEL IS SPECIFIED, THE CONTRACTOR SHALL USE A MATERIAL LISTED ON THE MAINE DEPARTMENT OF TRANSPORTATION PRE-QUALIFIED LIST OF CHEMICAL ANCHORING MATERIALS. THE DEPTH OF THE EMBEDMENT SHALL BE SUFFICIENT TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR, BUT SHALL BE NO LESS THAN THE MINIMUM DEPTH OF EMBEDMENT SPECIFIED. WHERE MINIMUM DEPTHS HAVE NOT BEEN SPECIFIED, BAR LENGTHS HAVE BEEN DEVELOPED BASED ON AN ASSUMED EMBEDMENT DEPTH OF 9" FOR #5 BARS, AND 11" FOR #6 BARS. THE CONTRACTOR SHALL VERIFY THE REQUIRED DEPTH OF EMBEDMENT AND ADJUST THE REQUIRED BAR LENGTHS AS NECESSARY.
- DRAWING PLAN VIEWS WITH SCALES ARE INTENDED FOR FULL SIZE 22X34-INCH DRAWINGS.
- ESTIMATED STRUCTURAL EXCAVATION FOR MAJOR STRUCTURES (OFFICE BUILDING) IS 600-CY AND FOR DRAINAGE (CB, DMH, SMH) IS 350-CY.

CODES

- AASHTO, "LRFD BRIDGE SPECIFICATIONS", 5TH EDITION, 2010 W/ INTERIMS.
- IBC, 2009 EDITION
- AISC, "STEEL CONSTRUCTION MANUAL", 9TH EDITION
- AWS, D1.1, "STRUCTURAL WELDING CODE - STEEL", CURRENT EDITION
- AWS, D1.2, "STRUCTURAL WELDING CODE - ALUMINUM", CURRENT EDITION
- AWS, D1.5, "BRIDGE WELDING CODE", CURRENT EDITION
- ACI, 318-02, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

PIER DESIGN CRITERIA

- LIVE LOAD:**
 UNIFORM LOAD: 1,000 PSF
 TRUCK LOAD: AASHTO HS-25
 CRANE LOAD: LIEBHERR LHM 320 (MODIFIED)
 STACKER LOAD: MI-JACK M50RS
 TAYLOR TEC-950L
- SNOW LOADS:** 60 PSF GROUND SNOW

BUILDING DESIGN CRITERIA

- BUILDING CODE:**
 IBC, 2009 EDITION
 ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

- DESIGN CRITERIA:**
 FLOOR LIVE LOAD: 100 PSF
 GROUND SNOW LOAD: 60 PSF
 WIND SPEED: 100 MPH
 SEISMIC: OCC. CAT. II, SITE CLASS D, DESIGN CAT. B

FOR ADDITIONAL BUILDING DESIGN CRITERIA SEE SHEET A.S1

GROUND STORAGE AREA DESIGN CRITERIA

- 35-INCH PAVEMENT SECTION: TAYLOR TEC-950L, 10,680 PASSES
 HS-25 TRUCK, 10,680 PASSES
 30-INCH PAVEMENT SECTION: TAYLOR TEC-950L, 10,680 PASSES
 HS-25 TRUCK, 10,680 PASSES

CONSTRUCTION SEQUENCE NOTES:

1. IN ORDER TO MAINTAIN FACILITY OPERATIONS AND OVERALL SITE SECURITY THROUGHOUT THE PROJECT, A SERIES OF CONSTRUCTION SEQUENCE DRAWINGS ARE INCLUDED HEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PROPOSED CONSTRUCTION SEQUENCE AND ENSURE THAT THE FACILITY'S OPERATIONS AND SITE SECURITY ARE NOT COMPROMISED AT ANY TIME DURING THE PROJECT. ONCE THE PROJECT IS UNDERWAY, THE CONTRACTOR MAY SUBMIT VARIATIONS TO THIS SEQUENCE BUT SHALL NOT ASSUME THAT SAID VARIATIONS WILL BE AUTHORIZED.

DEMOLITION NOTES:

- DEMOLITION SHALL BE CONDUCTED TO PREVENT DEBRIS FROM FALLING INTO THE RIVER. TO THE MAXIMUM EXTENT PRACTICABLE, ALL CONSTRUCTION DEBRIS, INCLUDING ANY LIQUIDS OR SLURRIES THAT ARE PRODUCED AS PART OF THE DEMOLITION, SHALL BE CAPTURED AND DISPOSED OF PROPERLY. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE PERMIT CONDITIONS AND ENVIRONMENTAL REGULATIONS LISTED IN THE SPECIFICATIONS. WORK SHALL INCLUDE REMOVAL OF ANY CONSTRUCTION DEBRIS FROM THE RIVER AND INSTALLATION AND MAINTENANCE OF APPROPRIATE TURBIDITY CONTROLS DURING DEMOLITION AND CONSTRUCTION SUCH THAT NO TURBIDITY ESCAPES THE IMMEDIATE WORK AREA. UNDERWATER INSPECTIONS MAY BE CONDUCTED BY THE OWNER'S REPRESENTATIVE TO ENSURE ALL DEMOLITION AND CONSTRUCTION DEBRIS IS REMOVED FROM THE RIVER.
- THE EXISTING SECURITY SYSTEM AND CLOSED CIRCUIT TELEVISION SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING ALL PHASES OF CONSTRUCTION. WORK SHALL BE COORDINATED WITH GALAXY INTEGRATED TECHNOLOGIES AND THE RESIDENT.
- A BUILDING SURVEY WAS CONDUCTED BY ABATEMENT PROFESSIONALS IN DECEMBER 2010 AND DETERMINED THAT TRACE QUANTITIES OF HAZARDOUS MATERIALS ARE PRESENT WITHIN THE IMT BUILDING AND THE U.S CUSTOMS BUILDING. LOCATIONS AND QUANTITIES OF THESE MATERIALS ARE NOTED HEREIN AND IN THE SPECIFICATIONS. REMOVAL OF THESE MATERIALS SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS.
- MATERIALS SCHEDULED FOR REMOVAL AND DISPOSAL THAT MAY HAVE SALVAGEABLE VALUE TO THE CONTRACTOR INCLUDE THE FOLLOWING:
 -STEEL (BEAMS AND COLUMNS) NOTE: SOME ELEMENTS CONTAIN LEAD PAINT
 -SHEET METAL (ROOF AND SIDING)
 -CONCRETE SLABS (FLOOR)
 -ELECTRICAL WIRING
 -BITUMINOUS PAVEMENT
 -CONCRETE PLANTER BOXES

TIDAL DATA:	NGVD29	MLLW
TOP OF PIER DECK (ALONG EDGE OF DECK)	15.32±	19.84
FIRST FLOOR ELEVATION (FFE), OFFICE BUILDING	13.77	18.29
100 Yr flood recurrence flood wave zone (BFE) (V Zone)	12.00	16.52
100 Yr recurrence flood zone (still water)	10.00	14.52
Highest observed water level (02/07/78)	9.61	14.13
Mean Higher High Water (MHHW)	5.39	9.91
Mean High Water (MHW)	4.95	9.47
Notional Geodetic Vertical Datum (NGVD) 1929	0.00	4.52
Mean Low Water (MLW)	-4.18	0.34
Mean Lower Low Water (MLLW)	-4.52	0.00
Lowest observed water level (11/30/55)	-7.97	-3.45

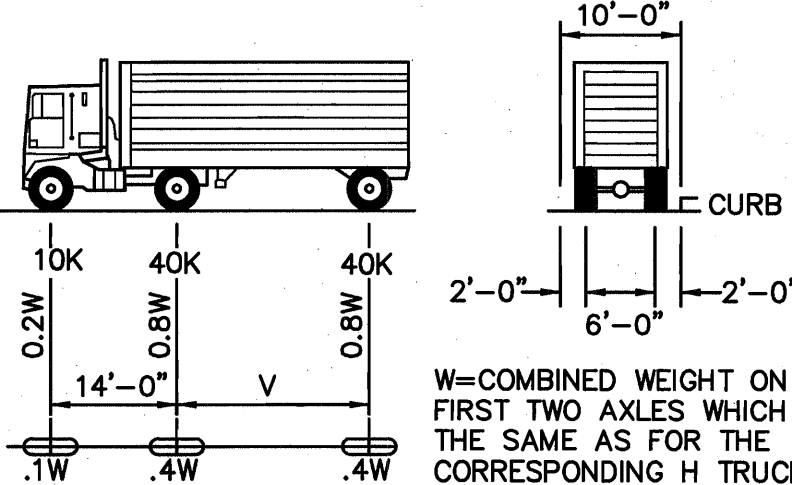
NOAA TIDAL STATION ID: 8418150, PORTLAND, CASCO BAY, MAINE
 EPOCH: 1983-2001, UNITS: FEET

ABBREVIATIONS:

- BLDG BUILDING
- CIP CAST-IN-PLACE
- CLR CLEAR
- CMP CORRUGATED METAL PIPE
- CY CUBIC YARD
- DIA DIAMETER
- EA EACH
- EF EACH FACE
- EL ELEVATION IN FEET
- EW EACH WAY
- EXP. JT. EXPANSION JOINT
- FFE FIRST FLOOR ELEVATION
- FS FAR SIDE
- HDG HOT DIPPED GALVANIZED
- HSS HOLLOW STRUCTURAL SECTIONS
- ID INSIDE DIAMETER
- IMT INTERNATIONAL MARINE TERMINAL
- K (KIP) 1000 POUNDS
- LBS POUNDS
- LF LINEAR FEET
- MAX MAXIMUM
- MIL .001 INCHES
- MIN. MINIMUM
- NS NEAR SIDE
- NTS NOT TO SCALE
- OC ON CENTER
- PSF POUNDS PER SQUARE FOOT
- R RADIUS
- REF REFERENCE
- REQ'D REQUIRED
- SF SQUARE FEET
- SS STAINLESS STEEL
- STD STANDARD
- SWL SAFE WORKING LOAD
- TBM TEMPORARY BENCHMARK
- TEMP TEMPORARY
- TYP TYPICAL
- UON UNLESS OTHERWISE NOTED

LEGEND:

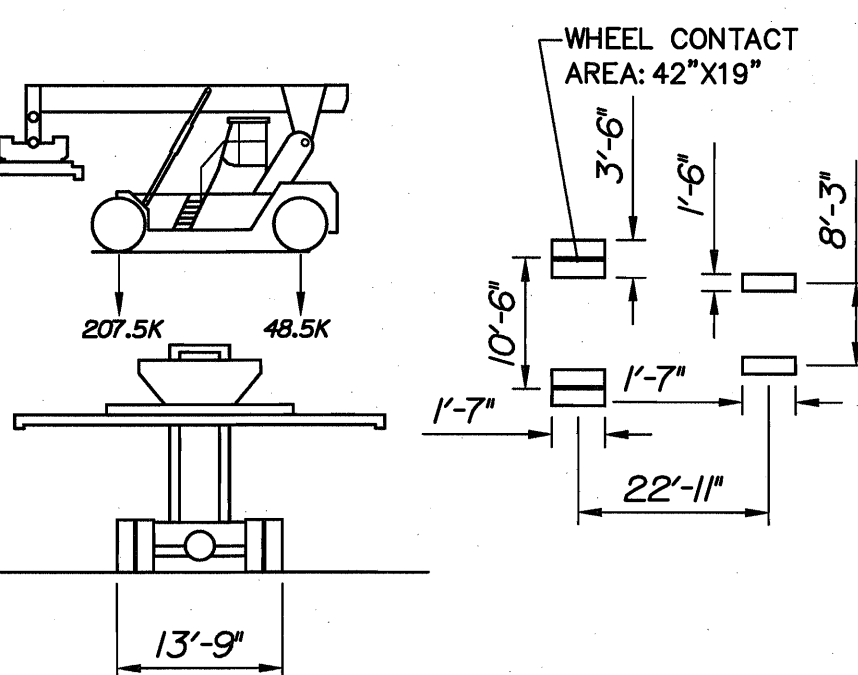
- PLATE
- CENTER LINE
- REINFORCING BAR SIZE
- SPOT ELEVATION (FEET)
- PROJECT BENCHMARK
- TEST BORINGS
- FIRE HYDRANT
- UNDERGROUND ELECTRIC BOX
- EXISTING LIGHT POLE
- PROPOSED LIGHT POLE
- HARDWOOD TREE
- SOFTWOOD TREE
- SANITARY MANHOLE
- WATER GATE
- CATCH BASIN
- DRAIN MANHOLE
- MANHOLE
- TELEPHONE MANHOLE
- ELECTRICAL MANHOLE
- EXISTING CHAIN LINK FENCE
- PROPOSED CHAIN LINK FENCE
- TEMPORARY CHAIN LINK FENCE
- JERSEY BARRIER WITH CHAIN LINK FENCE
- GUARD RAIL
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- SANITARY SEWER
- STORM DRAIN
- TELEPHONE
- WATER
- GAS
- OVERHEAD SANITARY SEWER
- OVERHEAD WATER
- CURBING
- RAILROAD TRACKS
- BEDROCK
- CONCRETE
- SAND
- STEEL



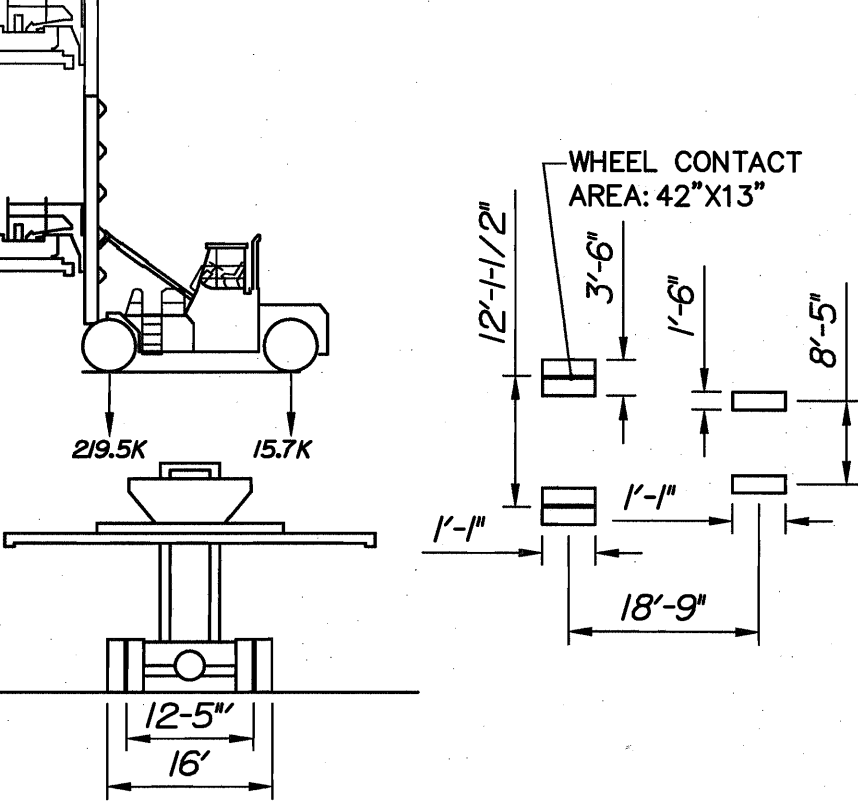
W=COMBINED WEIGHT ON THE FIRST TWO AXLES WHICH IS THE SAME AS FOR THE CORRESPONDING H TRUCK.

V=VARIABLE SPACING: 14-TO 30-FT INCLUSIVE. SPACING TO BE USED IS THAT WHICH PRODUCED MAXIMUM STRESSES.

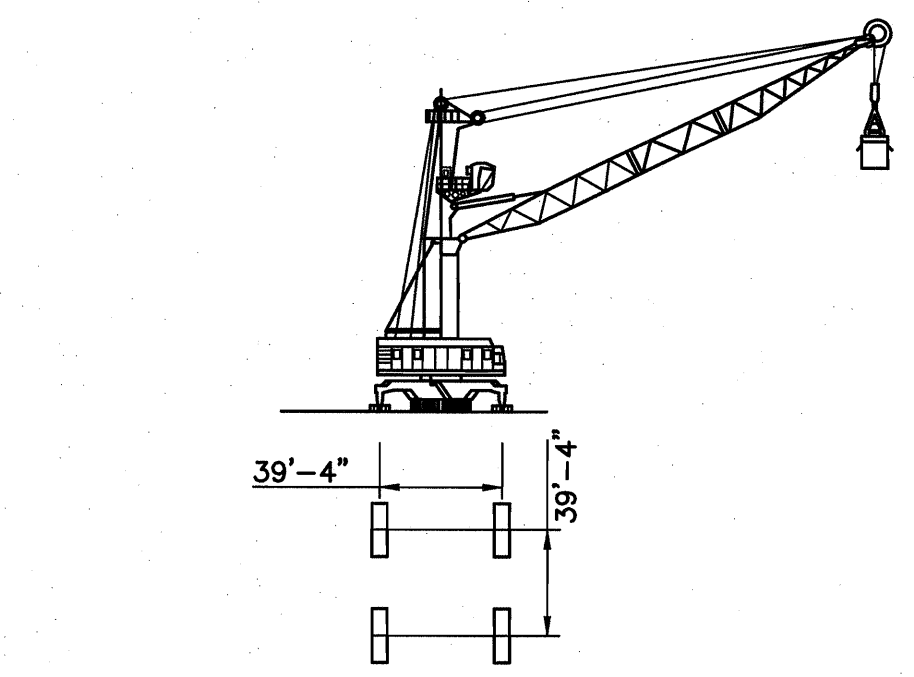
DESIGN: HS 25 TRUCK



DESIGN: MI-JACK 50 RS LOADED RAIL STACKER



DESIGN: TAYLOR TEC-950L LOADED CONTAINER HANDLER



DESIGN: 100 TON MOBILE HARBOR CRANE LIEBHERR LHM 320 (MODIFIED)

CORNERLOADS OF THE LHM320 SUPPORTING BASE 48'X37'-4"

	JIB ANGLE (DEG)	MAX CORNERLOADS			
		SUPPORT PAD A (LBS)	SUPPORT PAD B (LBS)	SUPPORT PAD C (LBS)	SUPPORT PAD D (LBS)
STATIC LOAD EXCL WIND	0	36290	36290	44345	44345
	MAX (38)	40585	19400	28326	44685
	90	78023	57258	78024	57262
DYNAMIC LOAD EXCL WIND	0	20328	20328	43037	43037
	MAX (38)	0	127207	25493	51850
	90	65585	385050	65585	385050

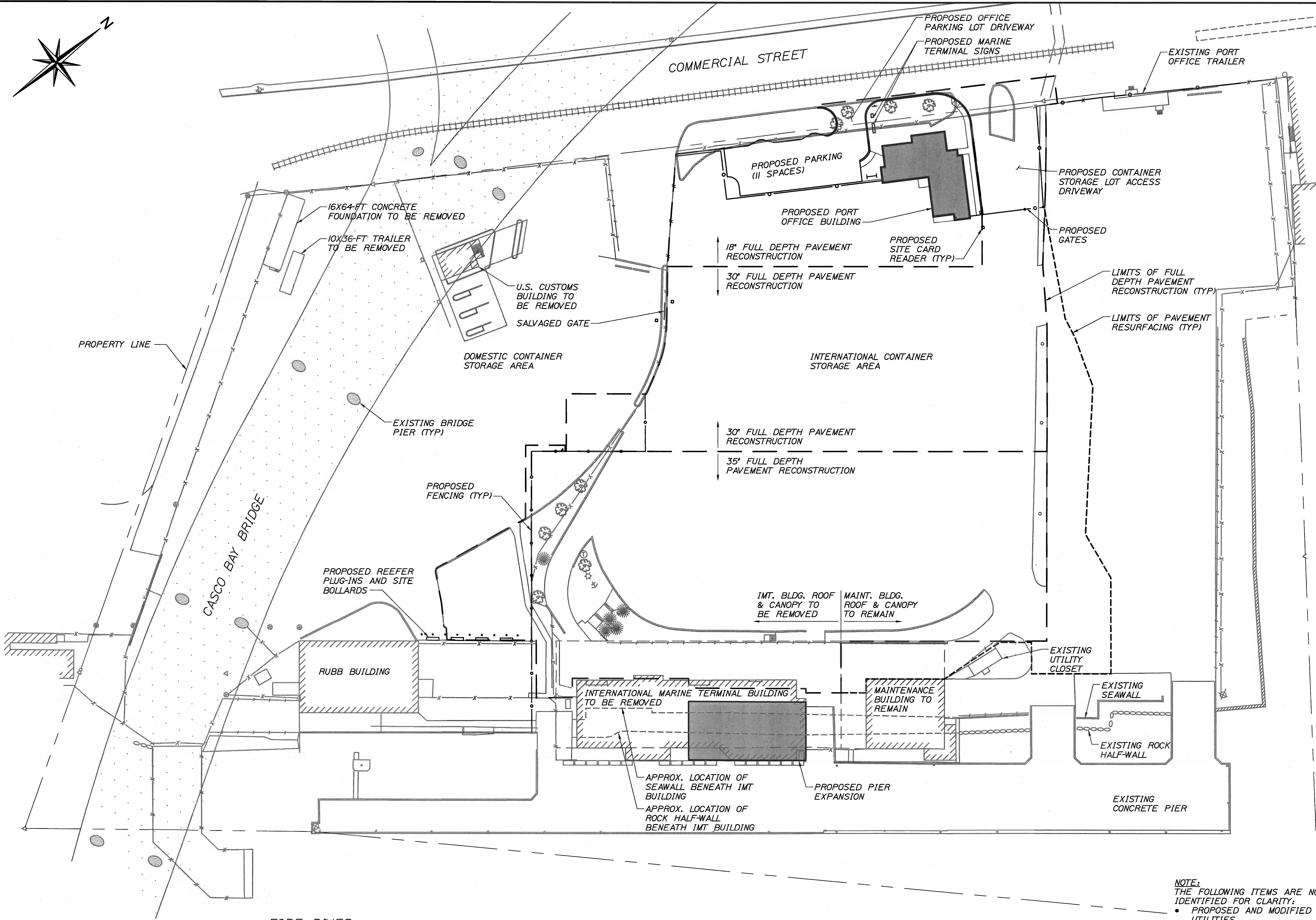
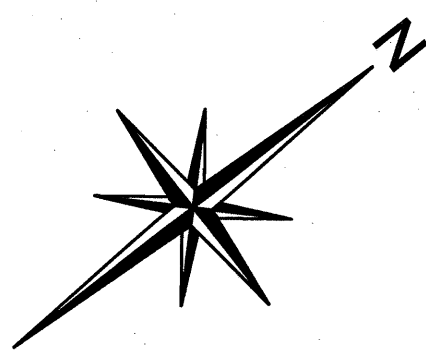
HNTB

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 017820.00

PROJ. MANAGER CRAIG R. MORIN
 DATE 3/25/11
 BY HME RAL
 DESIGN-REVIEWED CRM DGE
 CHECKED-REVIEWED DGE
 DESIGN-DETAILED DGE
 DESIGN-DETAILED 1
 REVISIONS 1
 REVISIONS 2
 REVISIONS 3
 REVISIONS 4
 FIELD CHANGES

PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 GENERAL NOTES AND DESIGN CRITERIA

SHEET NUMBER **G2**
 2 OF 71



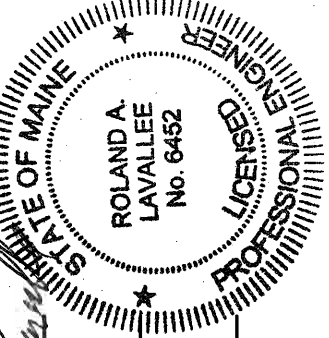
FORE RIVER
FLOOD ← EBB

GENERAL PLAN
SCALE: 1"=40'-0"
20 0 40 80-FT

- NOTE:**
THE FOLLOWING ITEMS ARE NOT SHOWN OR IDENTIFIED FOR CLARITY:
- PROPOSED AND MODIFIED SITE UTILITIES.
 - PROPOSED AND MODIFIED SITE LIGHTING.
 - PROPOSED AND MODIFIED SITE DRAINAGE SYSTEM.
 - PROPOSED PIER APPROACH SLAB AND TIMBER DECK REPLACEMENT.
 - PROPOSED PAVEMENT MARKINGS.

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN
017820.00



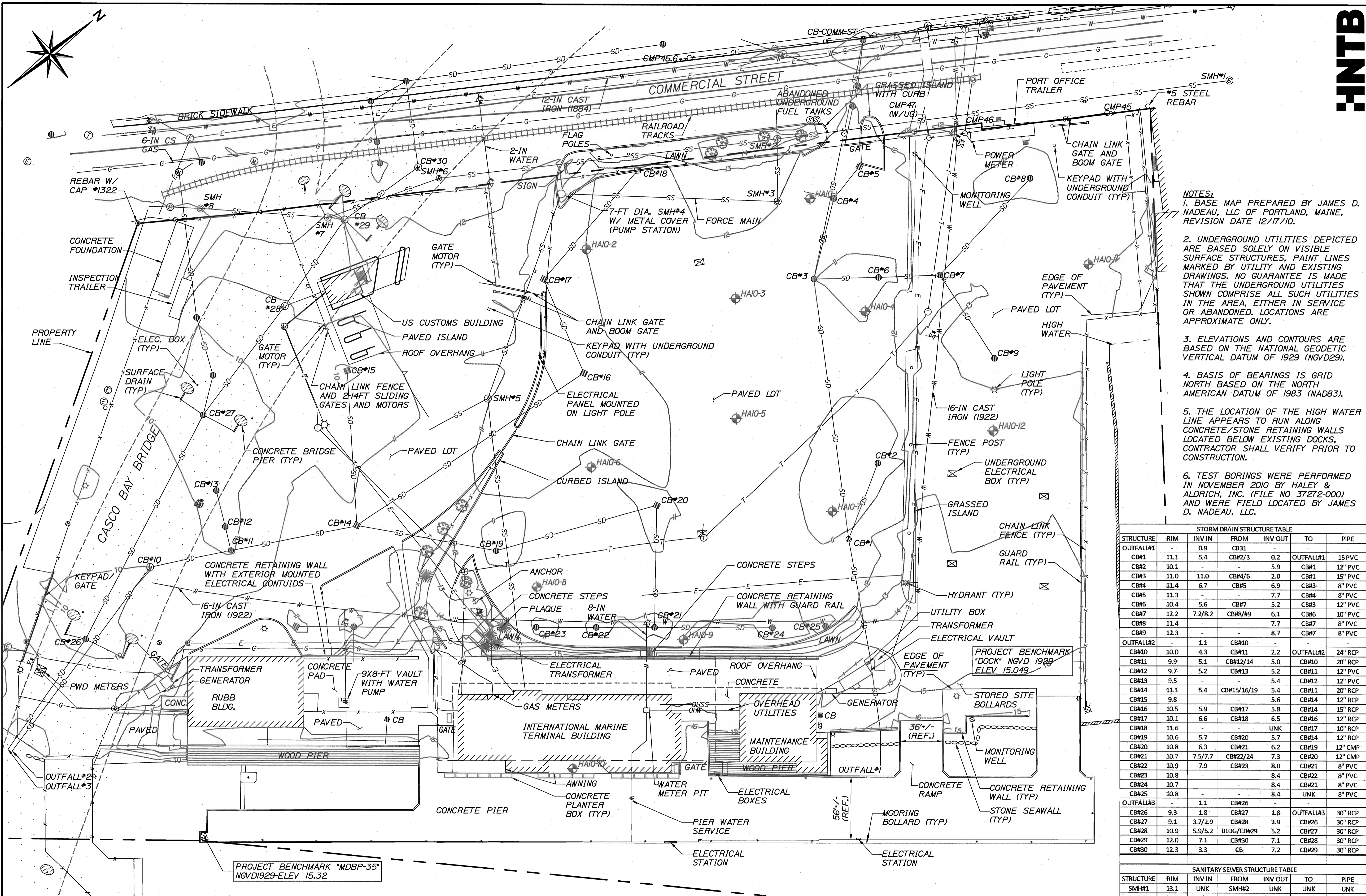
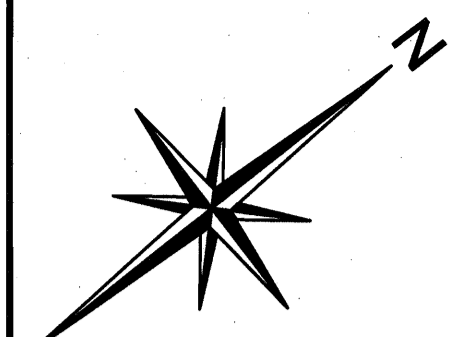
SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	CRAIG R. MORIN	DATE	BY
DESIGN-DETAILED	HME	3/25/11	HME
CHECKED-REVIEWED	CRM	3/25/11	CRM
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
GENERAL PLAN

SHEET NUMBER

G3



- NOTES:**
1. BASE MAP PREPARED BY JAMES D. NADEAU, LLC OF PORTLAND, MAINE, REVISION DATE 12/17/10.
 2. UNDERGROUND UTILITIES DEPICTED ARE BASED SOLELY ON VISIBLE SURFACE STRUCTURES, PAINT LINES MARKED BY UTILITY AND EXISTING DRAWINGS. NO GUARANTEE IS MADE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. LOCATIONS ARE APPROXIMATE ONLY.
 3. ELEVATIONS AND CONTOURS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
 4. BASIS OF BEARINGS IS GRID NORTH BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83).
 5. THE LOCATION OF THE HIGH WATER LINE APPEARS TO RUN ALONG CONCRETE/STONE RETAINING WALLS LOCATED BELOW EXISTING DOCKS. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.
 6. TEST BORINGS WERE PERFORMED IN NOVEMBER 2010 BY HALEY & ALDRICH, INC. (FILE NO 37272-000) AND WERE FIELD LOCATED BY JAMES D. NADEAU, LLC.

STORM DRAIN STRUCTURE TABLE						
STRUCTURE	RIM	INV IN	FROM	INV OUT	TO	PIPE
OUTFALL#1	-	0.9	CB#1	-	-	-
CB#1	11.1	5.4	CB#2/3	0.2	OUTFALL#1	15" PVC
CB#2	10.1	-	-	5.9	CB#1	12" PVC
CB#3	11.0	11.0	CB#4/6	2.0	CB#1	15" PVC
CB#4	11.4	6.7	CB#5	6.9	CB#3	8" PVC
CB#5	11.3	-	-	7.7	CB#4	8" PVC
CB#6	10.4	5.6	CB#7	5.2	CB#3	12" PVC
CB#7	12.2	7.2/8.2	CB#8/9	6.1	CB#6	10" PVC
CB#8	11.4	-	-	7.7	CB#7	8" PVC
CB#9	12.3	-	-	8.7	CB#7	8" PVC
OUTFALL#2	-	1.1	CB#10	-	-	-
CB#10	10.0	4.3	CB#11	2.2	OUTFALL#2	24" RCP
CB#11	9.9	5.1	CB#12/14	5.0	CB#10	20" RCP
CB#12	9.7	5.2	CB#13	5.2	CB#11	12" PVC
CB#13	9.5	-	-	5.4	CB#12	12" PVC
CB#14	11.1	5.4	CB#15/16/19	5.4	CB#11	20" RCP
CB#15	9.8	-	-	5.6	CB#14	12" RCP
CB#16	10.5	5.9	CB#17	5.8	CB#14	15" RCP
CB#17	10.1	6.6	CB#18	6.5	CB#16	12" RCP
CB#18	11.6	-	UNK	UNK	CB#17	10" RCP
CB#19	10.6	5.7	CB#20	5.7	CB#14	12" RCP
CB#20	10.8	6.3	CB#21	6.2	CB#19	12" CMP
CB#21	10.7	7.5/7.7	CB#22/24	7.3	CB#20	12" CMP
CB#22	10.9	7.9	CB#23	8.0	CB#21	8" PVC
CB#23	10.8	-	-	8.4	CB#22	8" PVC
CB#24	10.7	-	-	8.4	CB#21	8" PVC
CB#25	10.8	-	-	8.4	UNK	8" PVC
OUTFALL#3	-	1.1	CB#26	-	-	-
CB#26	9.3	1.8	CB#27	1.8	OUTFALL#3	30" RCP
CB#27	9.1	3.7/2.9	CB#28	2.9	CB#26	30" RCP
CB#28	10.9	5.9/5.2	BLDG/CB#29	5.2	CB#27	30" RCP
CB#29	12.0	7.1	CB#30	7.1	CB#28	30" RCP
CB#30	12.3	3.3	CB	7.2	CB#29	30" RCP

SANITARY SEWER STRUCTURE TABLE						
STRUCTURE	RIM	INV IN	FROM	INV OUT	TO	PIPE
SMH#1	13.1	UNK	SMH#2	UNK	UNK	UNK
SMH#2	14.3	5.8/4.3	SMH#3/6	1.9	SMH#1	UNK
SMH#3	12.0	6.9	SMH#4	6.4	SMH#2	8" PVC
SMH#4 (PUMP)	UNK	UNK	SMH#5	UNK	SMH#3	4" PVC (FM)
SMH#5	11.0	3.4/3.6	IMT/UNK	3.4	SMH#4	8" RCP
SMH#6	12.3	UNK	SMH#7	UNK	SMH#2	48" RCP
SMH#7	12.0	2.0	SMH#8	2.0	SMH#6	48" RCP
SMH#8	12.0	2.1	SMH	2.1	SMH#7	48" RCP

EXISTING CONDITIONS PLAN
SCALE: 1"=40'-0"
20 0 40 80-FT

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00

DATE: 3/25/11
BY: HME
CHECKED/REVIEWED: CRM
DESIGNED/DETAILED: -
REVISIONS: 1
REVISIONS: 2
REVISIONS: 3
REVISIONS: 4
FIELD CHANGES: -

PROJ. MANAGER: CRAIG R. MORIN
DESIGNER: JAMES D. NADEAU
SIGNATURE: JAMES D. NADEAU
P.E. NUMBER: 6452
DATE: 3/25/11

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
EXISTING CONDITIONS PLAN

SHEET NUMBER
C1
4 OF 71

HALEY & ALDRICH TEST BORING REPORT Boring No. HA10-1. Project: Portland International Marine Terminal Improvements, Portland, Maine. Includes soil logs for depths 0 to 20 ft, water level data, and well diagrams.

HALEY & ALDRICH TEST BORING REPORT Boring No. HA10-2. Project: Portland International Marine Terminal Improvements, Portland, Maine. Includes soil logs for depths 0 to 10 ft, water level data, and well diagrams.

HALEY & ALDRICH TEST BORING REPORT Boring No. HA10-4. Project: Portland International Marine Terminal Improvements, Portland, Maine. Includes soil logs for depths 0 to 10 ft, water level data, and well diagrams.

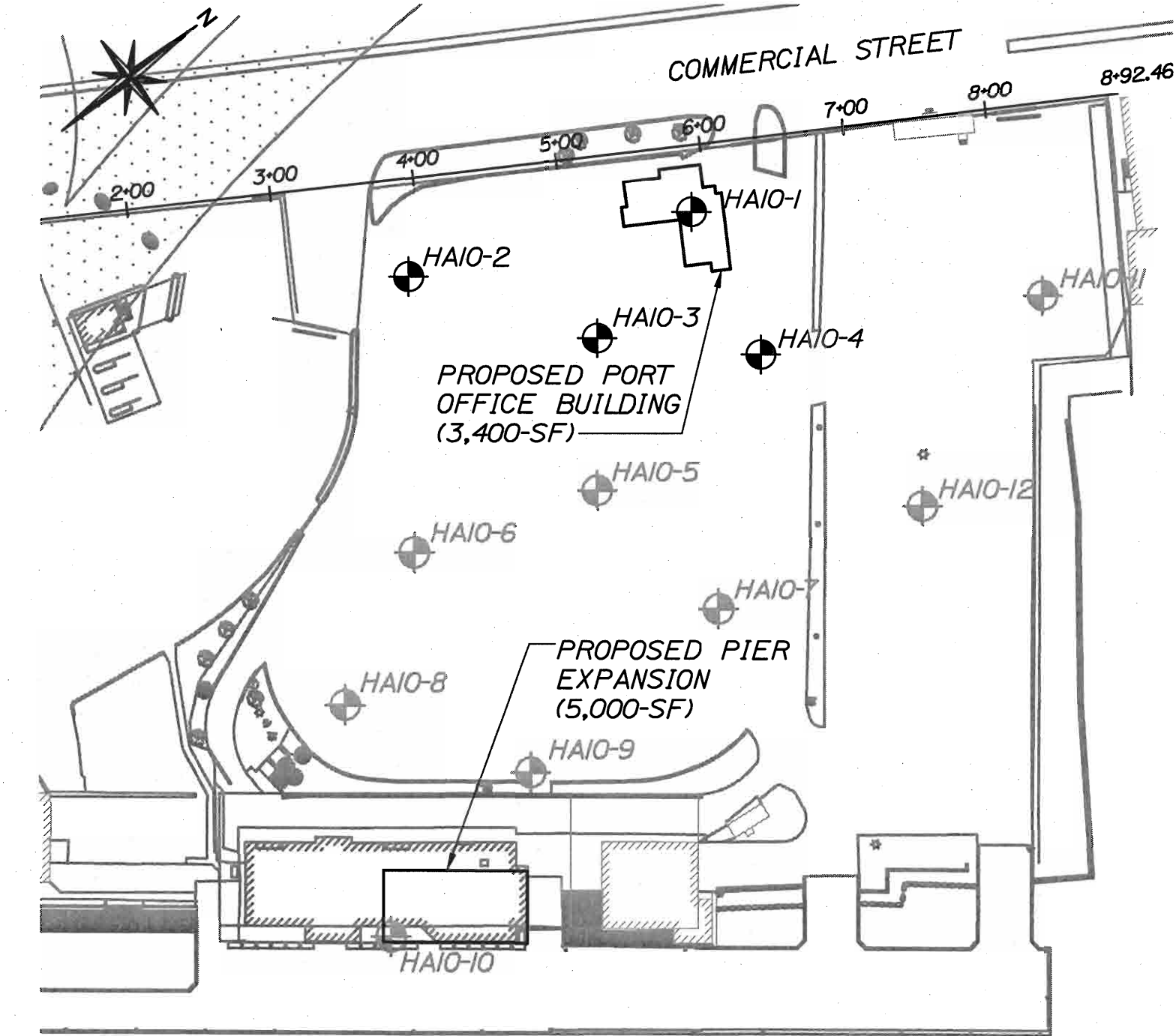
HALEY & ALDRICH TEST BORING REPORT Boring No. HA10-1. Project: Portland International Marine Terminal Improvements, Portland, Maine. Includes soil logs for depths 0 to 25 ft, water level data, and well diagrams.

HALEY & ALDRICH TEST BORING REPORT Boring No. HA10-3. Project: Portland International Marine Terminal Improvements, Portland, Maine. Includes soil logs for depths 0 to 10 ft, water level data, and well diagrams.

GEOTECHNICAL NOTES: (APPLICABLE TO SHEETS C2, C3 AND C4)

- 1. SOIL CLASSIFICATION, PROPERTIES AND DESCRIPTIONS ARE BASED ON ENGINEERING INTERPRETATION OF AVAILABLE SUBSURFACE INFORMATION BY HALEY & ALDRICH, INC. AND MAY NOT NECESSARILY REFLECT ACTUAL VARIATIONS IN SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED BETWEEN INDIVIDUAL BORINGS OR SAMPLE LOCATIONS.
- 2. OBSERVED WATER LEVELS AND/OR WATER CONDITIONS INDICATED ARE AS RECORDED AT THE TIME OF EXPLORATION AND MAY VARY ACCORDING TO THE PREVAILING RAINFALL, METHODS OF EXPLORATION, AND OTHER FACTORS.
- 3. SOUND ENGINEERING JUDGMENT WAS EXERCISED IN PREPARING THE SUBSURFACE INFORMATION PRESENTED HEREIN. ANALYSIS AND INTERPRETATION OF SUBSURFACE DATA WAS PERFORMED AND INTENDED FOR AUTHORITY DESIGN AND ESTIMATE PURPOSES ONLY. PRESENTATION OF THE INFORMATION ON THESE PLANS OR ELSEWHERE IS FOR THE PURPOSE OF PROVIDING INTENDED USERS WITH ACCESS TO THE SAME DATA AVAILABLE TO THE AUTHORITY. THE SUBSURFACE INFORMATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR ADDITIONAL EXPLORATIONS, INDEPENDENT INTERPRETATIONS, INDEPENDENT ANALYSIS OR JUDGMENT BY THE CONTRACTOR.
- 4. THE SUBSURFACE EXPLORATIONS SHOWN HEREIN WERE MADE BETWEEN NOVEMBER 15, 2010 AND NOVEMBER 18, 2010 BY HALEY & ALDRICH, INC. ALL BORINGS WERE PERFORMED BY MAINE TEST BORINGS.
- 5. BORINGS ARE FOR THE PURPOSE OF DESIGN AND SHOW SOIL CONDITIONS AT BORING LOCATIONS ONLY, AND DO NOT NECESSARILY SHOW THE NATURE AND EXTENT OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION. ACTUAL SUBSURFACE CONDITIONS WILL VARY.
- 6. ELEVATIONS SHOWN ON TEST BORING LOGS ARE APPROXIMATE AND REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
- 7. BORING STATION AND OFFSET INFORMATION IS BASED ON THE CONSTRUCTION BASELINE BETWEEN STEEL REBAR LOCATED AT THE PROPERTY CORNERS. SEE SITE PLAN SHEET C16 FOR LAYOUT.
- 8. GRID NORTH ON THE NORTH AMERICAN DATUM 1983 (NAD83).

Table with 3 columns: BORING NO., STATION, and OFFSET (RT). Rows include HA10-1 through HA10-4 with corresponding station and offset values.



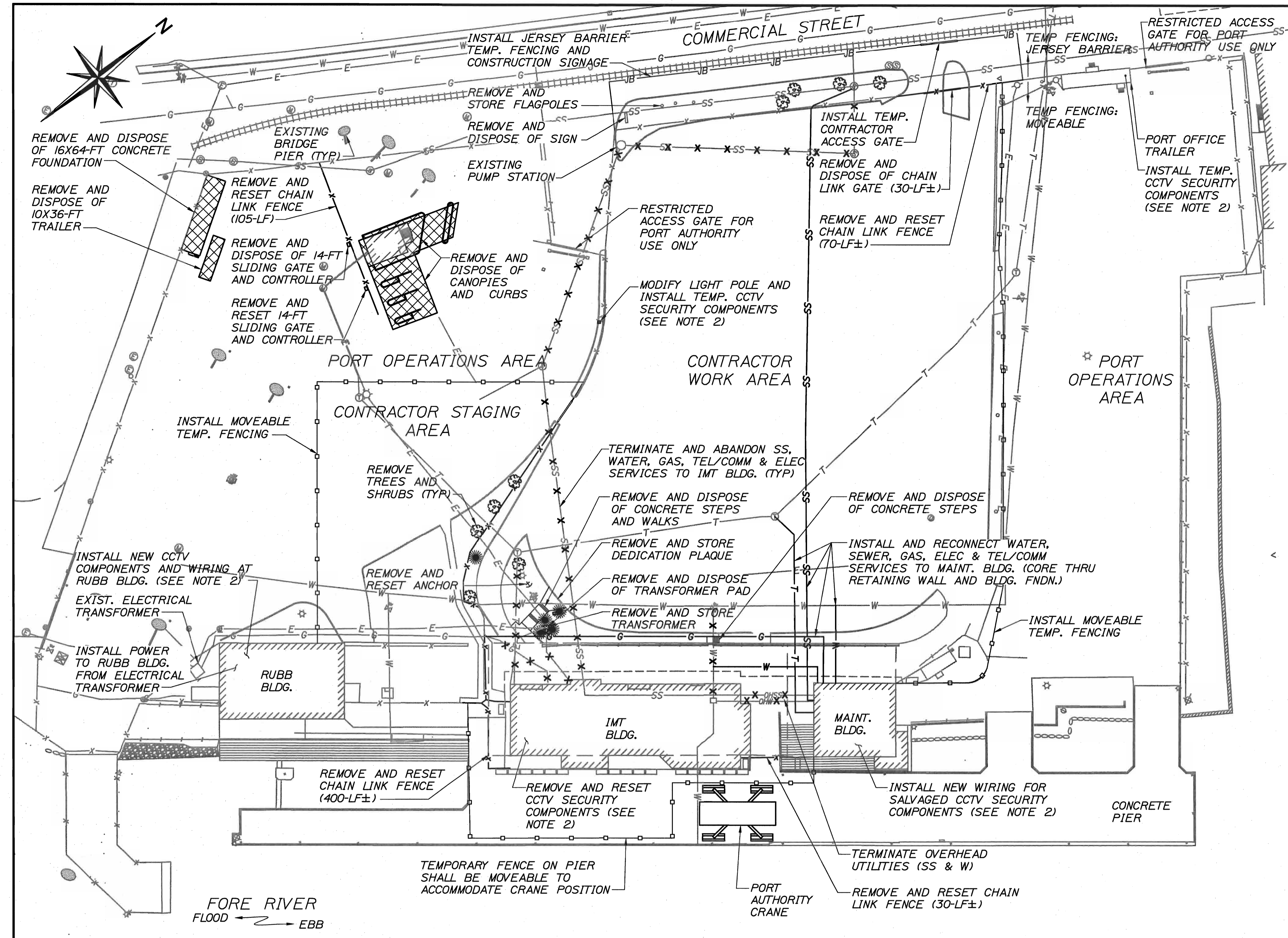
BORING PLAN SCALE: 1"=100'-0"



STATE OF MAINE DEPARTMENT OF TRANSPORTATION PROJECT NUMBER 017820.00 PIN 017820.00. Includes signature and date fields.

Table with columns for PROJ. MANAGER, DESIGN-DETAILED, CHECKED-REVIEWED, DESIGN-DETAILED2, REVISIONS 1-4, and FIELD CHANGES.

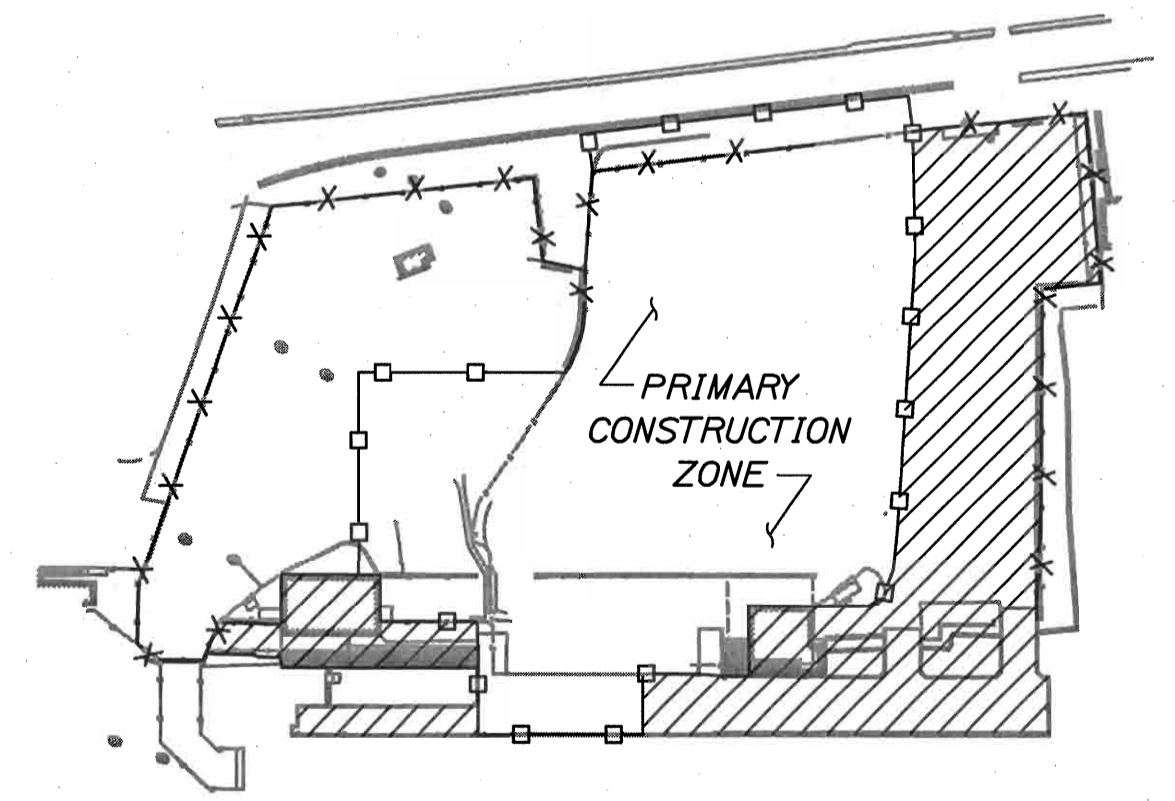
PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS PORTLAND CUMBERLAND COUNTY BORING LOGS I SHEET NUMBER C2 5 OF 71



PHASE I NOTES:

1. INSTALL TEMPORARY FENCING AND ACCESS GATES AROUND PERIMETER OF CONTRACTOR WORK AREA AND STAGING AREA, INSTALL TEMPORARY FENCING AND SIGNAGE ALONG COMMERCIAL STREET.
2. INSTALL CCTV SECURITY COMPONENTS AT RUBB BUILDING, MAINTENANCE BUILDING, AND PORT OFFICE TRAILER AND PUT INTO SERVICE. COORDINATE CCTV SECURITY WORK WITH OWNER'S SECURITY SYSTEM SUPPLIER/INSTALLER; GALAXY INTEGRATED TECHNOLOGIES. ALL CCTV SECURITY WORK MUST BE COMPLETE AND OPERATIONAL PRIOR TO DEMOLITION OF IMT BUILDING.
3. INSTALL NEW UNDERGROUND ELECTRICAL SERVICE TO MAINTENANCE BUILDING, INSTALL ELECTRICAL PANEL AT MAINTENANCE BUILDING AND PUT IN SERVICE, INSTALL ELECTRICAL SERVICE TO RUBB BUILDING. TERMINATE POWER TO IMT BUILDING, REMOVE TRANSFORMER AND DEMOLISH CONCRETE PAD.
4. INSTALL NEW UNDERGROUND GAS SERVICE TO MAINTENANCE BUILDING, INSTALL NEW GAS METERS AT MAINTENANCE BUILDING, PUT IN SERVICE. TERMINATE GAS SERVICE TO IMT BUILDING AND PROPERLY DRAIN AND ABANDON PIPES.
5. INSTALL NEW UNDERGROUND WATER SERVICES TO MAINTENANCE BUILDING, PUT IN SERVICE. TERMINATE WATER SERVICE TO IMT BUILDING AND CUSTOMS BUILDING AND PROPERLY DRAIN PIPES. CAP ABANDONED PIPING AT IMT BUILDING METER PIT AND MAKE MODIFICATIONS TO ALLOW FOR CONTINUATION OF SERVICE TO PIER. EXISTING WATER LINE MAY BE ABANDONED IN PLACE. REMOVE ABANDONED METERS, VALVES AND OTHER ABANDONED EQUIPMENT.
6. INSTALL NEW UNDERGROUND SANITARY SERVICE TO MAINTENANCE BUILDING, PUT IN SERVICE. TERMINATE SANITARY SEWER SERVICE FROM IMT BUILDING AND CUSTOMS BUILDING AND PROPERLY DRAIN, PLUG AND ABANDON PIPING IN PLACE.
7. REMOVE TREES AND SHRUBS.
8. REMOVE CHAIN LINK FENCING, GATES, AND CONTROLLERS AT IMT BUILDING, US CUSTOMS BUILDING, AND CONTRACTOR'S ENTRANCE.
9. SALVAGE ANCHOR AND FLAGPOLES FOR LATER PLACEMENT IN FRONT OF OFFICE BUILDING. SALVAGE PLAQUE AND RETURN TO THE CITY OF PORTLAND.
10. REMOVE AND DISPOSE OF TRAILER (10X36-FT).
11. DEMOLISH CONCRETE STEPS AT RETAINING WALL.
12. DEMOLISH CONCRETE STEPS AND CONCRETE WALKWAYS AT ELECTRICAL TRANSFORMER.
13. DEMOLISH CONCRETE FOUNDATION (16X64-FT).
14. DEMOLISH U.S. CUSTOMS BUILDING CANOPIES AND CURBING.

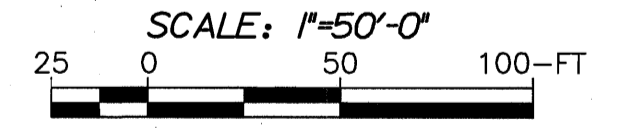
NOTE:
DEMOLITION MATERIALS SUITABLE FOR REUSE AS FILL MAY BE TEMPORARILY STOCKPILED ON SITE PROVIDED THAT PROPER EROSION CONTROL MEASURES ARE INSTALLED AT PERIMETER OF STOCKPILE. REFER TO SECTION 31 20 00 - EARTHWORK FOR ADDITIONAL DETAILS REGARDING DEMOLITION MATERIAL REUSE.



FACILITY SECURITY DIAGRAM DURING CONSTRUCTION PHASE I
NTS

- LEGEND**
- CONTRACTOR WORK/STAGING AREA
 - ▨ RESTRICTED AREA (NO ACCESS)
 - x-x- EXISTING FACILITY SECURITY FENCING
 - o-o- TEMPORARY FENCING

PHASE I: PRE-DEMOLITION ACTIVITIES



GENERAL PHASING NOTES:

1. THE PHASING SEQUENCE SHOWN HEREIN ACCOMMODATES FACILITY OPERATIONS, SECURITY AND ANTICIPATED CONSTRUCTION SEQUENCE. THE CONSTRUCTION PHASE NOTES DESCRIBE THE WORK TO BE INCLUDED IN THE DESIGNATED PHASE HOWEVER DO NOT DENOTE THE ORDER IN WHICH THE WORK MUST OCCUR.
2. SCHEDULING OF ALL WORK SHALL BE COORDINATED WITH THE OWNER AND THE RESIDENT. COORDINATION MEETINGS WITH THE OWNER, RESIDENT AND CONTRACTOR WILL IDENTIFY THE LIMITS OF PROPOSED WORK SCHEDULED TO BE COMPLETED AT THE END OF EACH PHASE.
3. UTILITIES REMOVED FROM SERVICE MUST BE RECONNECTED AND OPERATIONAL WITHIN A TIMEFRAME ACCEPTED BY THE OWNER. CCTV AND SECURITY SYSTEMS MUST REMAIN ONLINE AT ALL TIMES.
4. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITIES TO ARRANGE FOR TERMINATION AND REMOVAL OF SALVAGEABLE EQUIPMENT AND MATERIALS.

GENERAL PHASING NOTES (CONTINUED):

5. THE PRIMARY CONSTRUCTION ZONE SHALL REMAIN CONFINED BY TEMPORARY FENCING AND SECURED GATES AT ALL TIMES. THE CONTRACTOR ACCESS GATE SHALL REMAIN CLOSED WHEN NOT IN USE AND SHALL BE LOCKED DAILY UPON COMPLETION OF CONSTRUCTION ACTIVITIES. DURING ACTIVITIES THAT RESULT IN GAPS IN SECURITY FENCING, THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTRICTING THE GENERAL PUBLIC ONTO THE CONSTRUCTION SITE.
6. THE PORT AUTHORITY MAY PERMIT THE TEMPORARY USE OF PORTIONS OF THE PORT OPERATIONS AREA TO THE CONTRACTOR FOR SHORT PERIODS OF TIME. REQUESTS MUST BE MADE IN WRITING TO THE AUTHORITY AND MUST DESCRIBE THE SIZE OF THE AREA NEEDED, FUNCTION, AND DURATION. THE AUTHORITY WILL CONSIDER WRITTEN REQUESTS ONLY.
7. THE CONTRACTOR SHALL BE LIMITED TO THE CONTRACTOR WORK AREA AND CONTRACTOR STAGING AREA EXCEPT DURING SCHEDULED CONSTRUCTION ACTIVITIES WHICH OCCUR IN THE PORT OPERATIONS AREAS. CONTRACTOR PERSONNEL SHALL HAVE THE PROPER SECURITY CLEARANCE PRIOR TO ENTERING THESE AREAS.

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER 017820.00

PIN 017820.00

DATE	3/25/11	BY	HME	CRM	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED2	DESIGN-DETAILED3	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
SIGNATURE													
P.E. NUMBER	6462												
DATE	3/25/11												

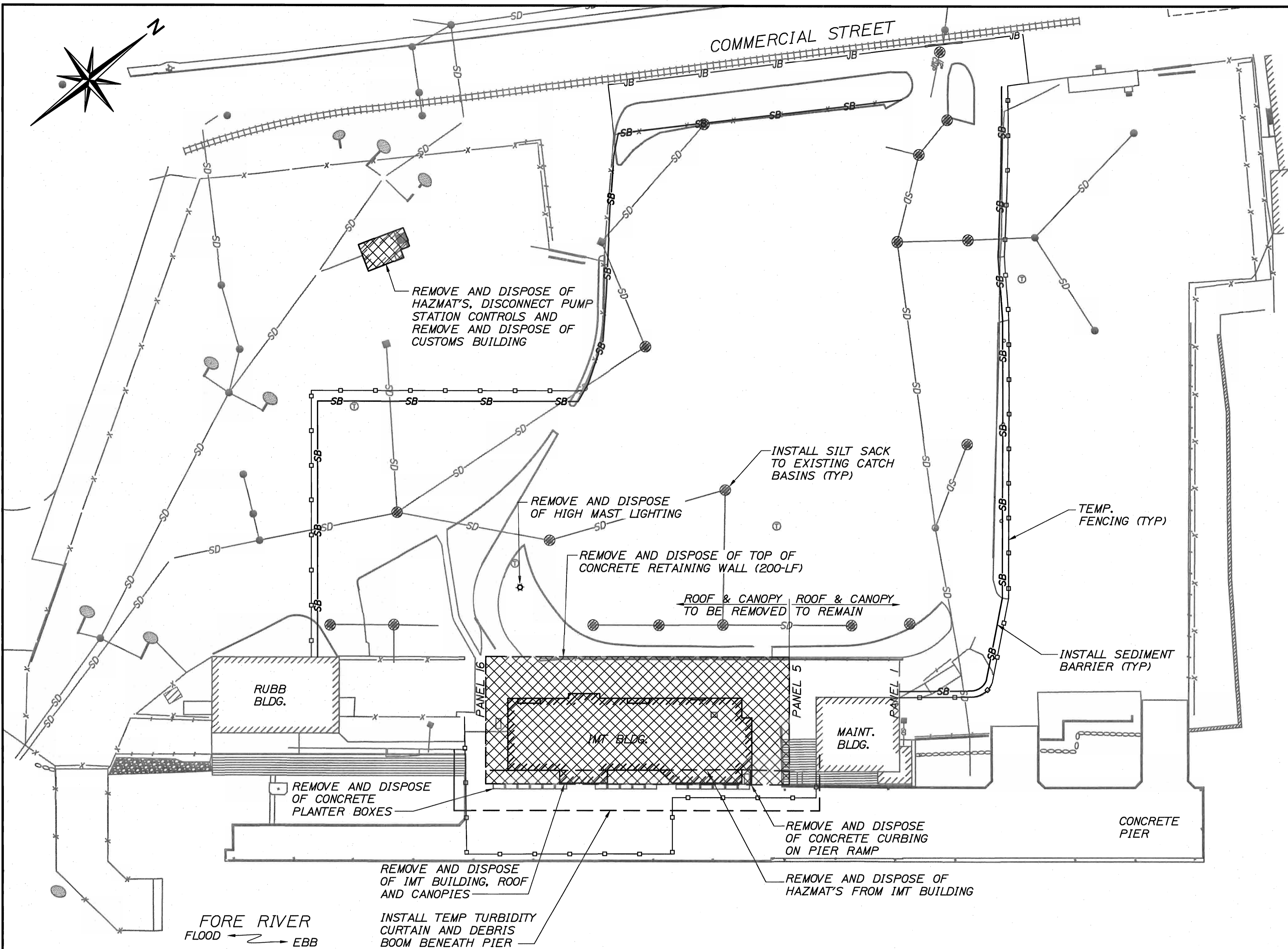
PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS
CUMBERLAND COUNTY
PORTLAND

CONSTRUCTION PHASING PLAN I

SHEET NUMBER

C5

8 OF 71

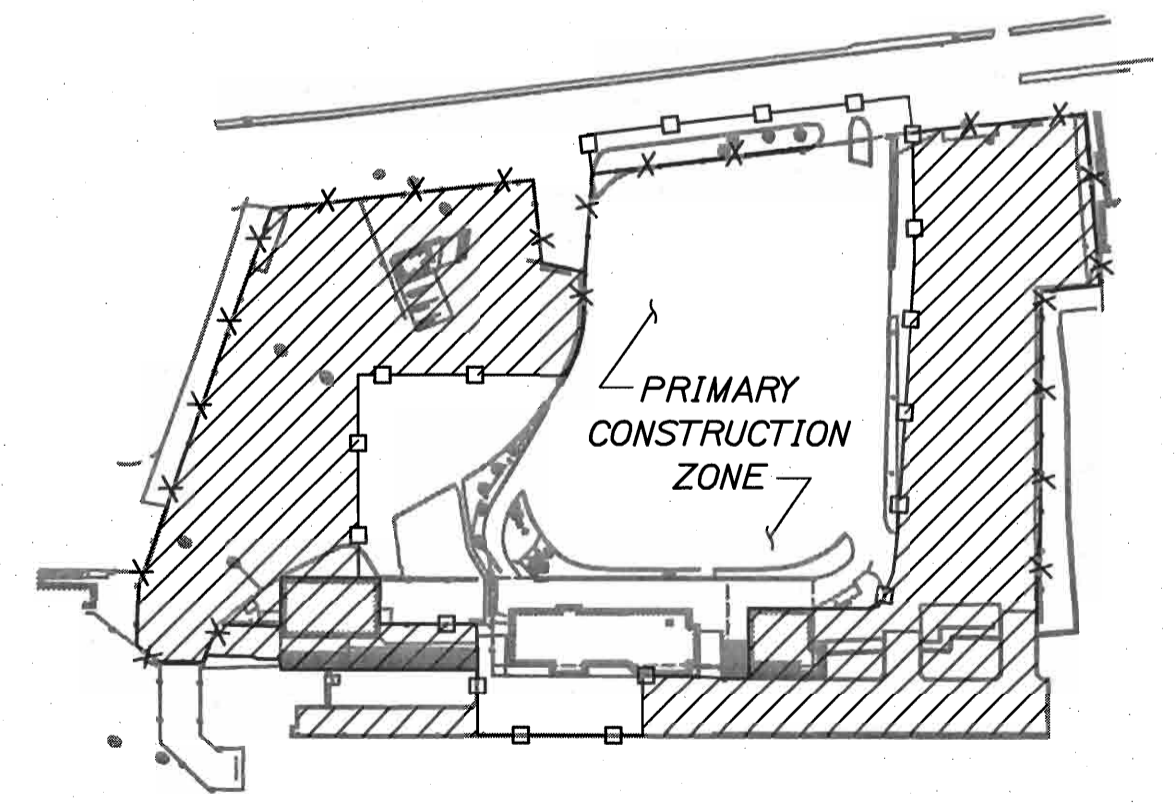


PHASE 2: DEMOLITION ACTIVITIES

SCALE: 1"=50'-0"
 25 0 50 100-FT

PHASE 2 NOTES:

1. INSTALL EROSION CONTROL MEASURES AT STORMWATER INLET STRUCTURES. INSTALL SEDIMENT BARRIER AT LIMITS OF PAVEMENT RECONSTRUCTION. INSTALL TURBIDITY CURTAIN AND DEBRIS BOOM BENEATH THE CONCRETE PIER. SUBMIT EROSION CONTROL PLAN TO RESIDENT FOR APPROVAL.
2. REMOVE AND DISPOSE OF ALL HAZARDOUS MATERIALS AT IMT BUILDING AND CUSTOMS BUILDING. DISCONNECT PUMP STATION CONTROLS AND DEMOLISH CUSTOMS BUILDING.
3. SELECTIVE DEMOLITION OF IMT BUILDING:
 - A. INSTALL CROSS BRACING AT MAINTENANCE BUILDING PANEL 5;
 - B. SELECTIVELY REMOVE IMT BUILDING BETWEEN PANELS 5 AND 6;
4. COMPLETE DEMOLITION OF IMT BUILDING:
 - A. REMOVE WEST END METAL WALL SIDING AND STRUCTURAL STEEL ITEMS AT PANEL 16 FOR FUTURE REINSTALLATION AT PANEL 5.
 - B. DEMOLISH IMT BUILDING BETWEEN PANELS 5 AND 16;
 - C. DEMOLISH CONCRETE SLAB;
 - D. REMOVE ALL FOUNDATIONS TO DEPTH OF 3' MINIMUM BELOW FINISH GRADE;
 - E. REMOVE PILES;
5. INSTALL SALVAGED STRUCTURAL STEEL, METAL WALL SIDING, AND TIE RODS AT PANEL 5.
6. SELECTIVELY REMOVE CONCRETE CURB ON PIER RAMP.
7. REMOVE TOP OF CONCRETE RETAINING WALL TO A HEIGHT OF 3' BELOW FINISH GRADE.



FACILITY SECURITY DIAGRAM DURING CONSTRUCTION PHASE 2
 NTS

LEGEND

- CONTRACTOR WORK/STAGING AREA
- ▨ RESTRICTED AREA (NO ACCESS)
- x-x- EXISTING FACILITY SECURITY FENCING
- o-o- TEMPORARY FENCING

HNTB

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 017820.00

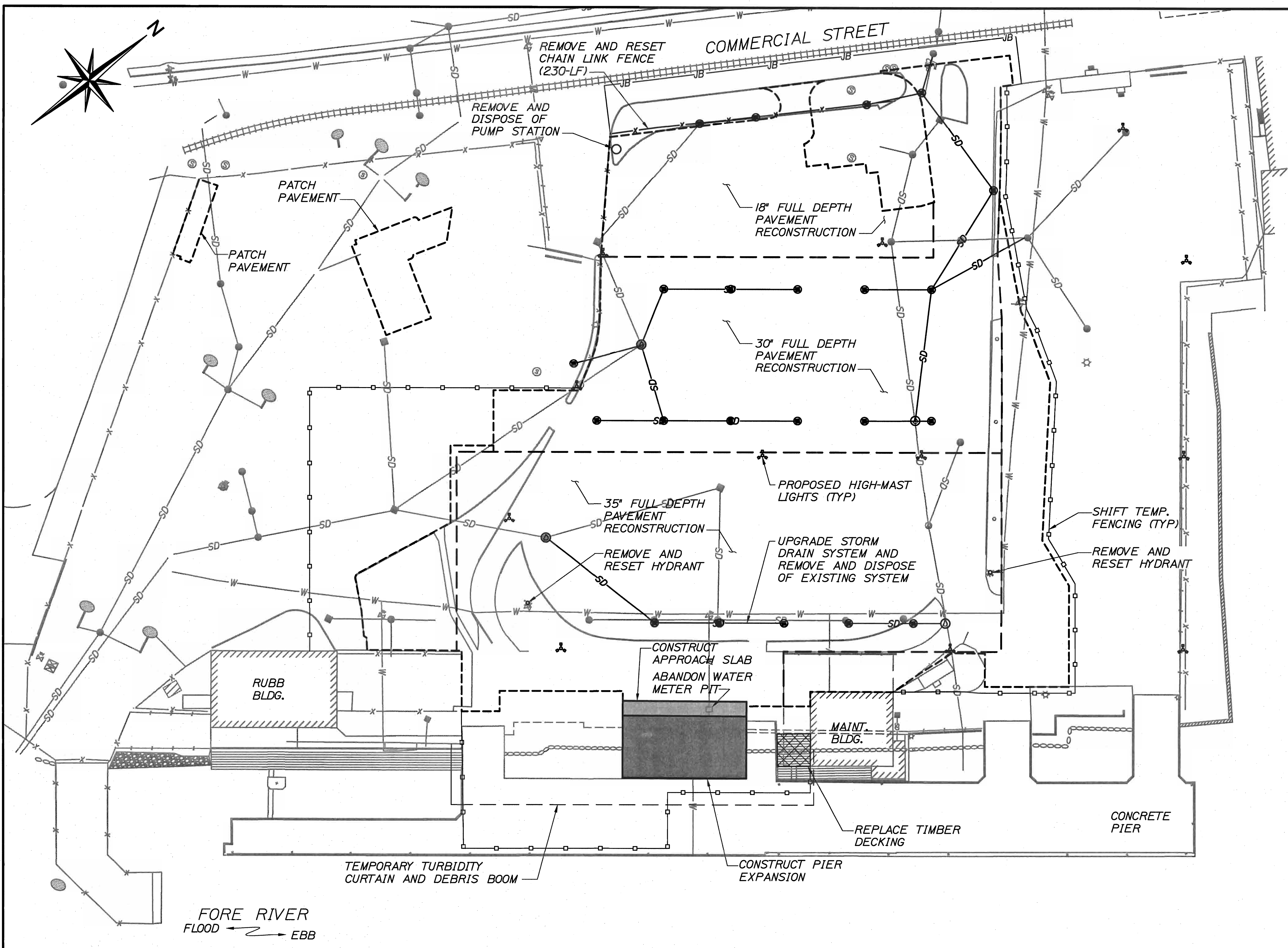
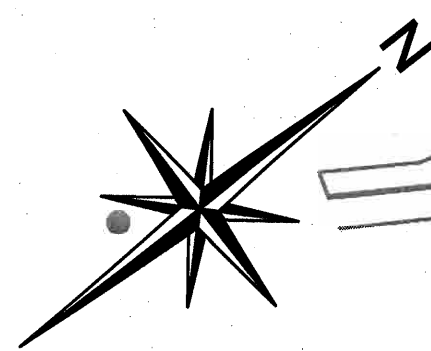
STATE OF MAINE
 PORTLAND A
 LICENSE
 No. 8432
 SIGNATURE
 P.E. NUMBER
 DATE

DATE	3/25/11
BY	HME
PROJ. MANAGER	CRAIG R. MORIN
DESIGN-DETAILED	CRM
CHECKED-REVIEWED	CAH
DESIGN-DETAILED2	-
DESIGN-DETAILED3	-
REVISIONS 1	-
REVISIONS 2	-
REVISIONS 3	-
REVISIONS 4	-
FIELD CHANGES	-

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
CONSTRUCTION PHASING PLAN II

SHEET NUMBER

C6

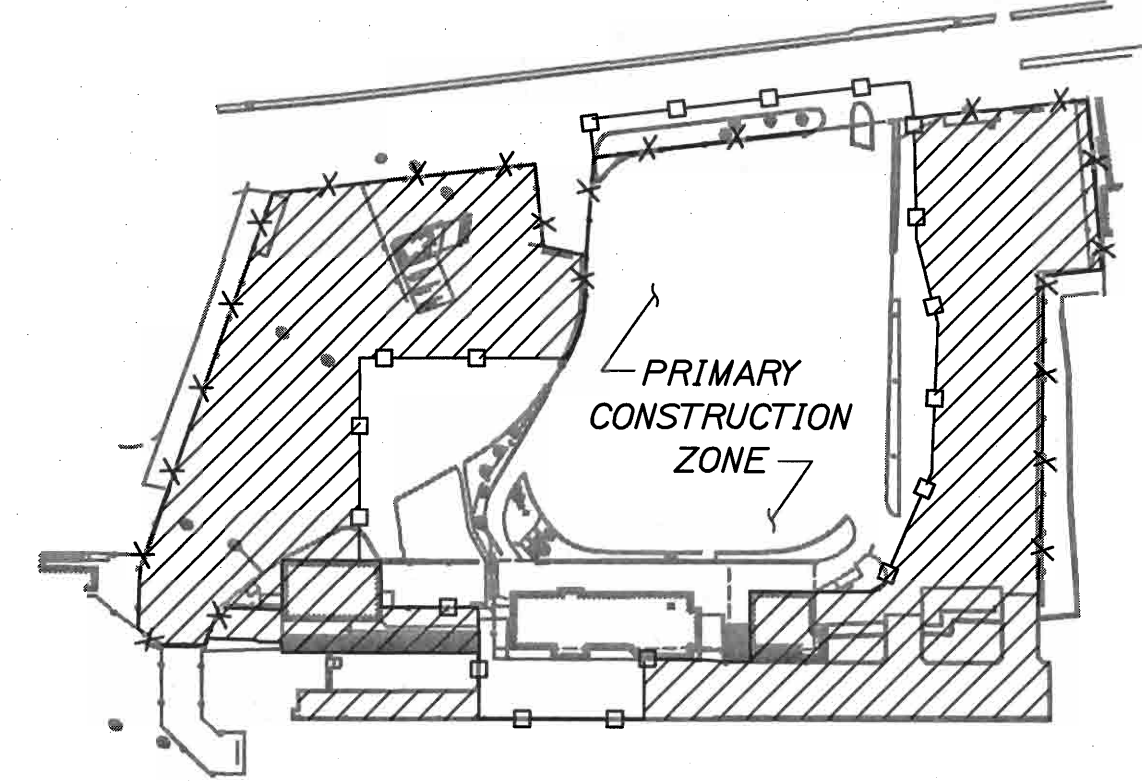


PHASE 3: PAVEMENT RECONSTRUCTION AND PIER CONSTRUCTION

SCALE: 1"=50'-0"
 25 0 50 100-FT

PHASE 3 NOTES:

1. SHIFT TEMPORARY FENCING TO LIMITS OF PAVEMENT RECONSTRUCTION.
2. REMOVE EXISTING BITUMINOUS PAVEMENT IN AREAS OF PAVEMENT RECONSTRUCTION.
3. UPGRADE STORM DRAINAGE SYSTEM AND REMOVE EXISTING STORM DRAINAGE AND SANITARY SEWER CATCH BASINS AND MANHOLES. ABANDON PIPING IN PLACE.
4. MAINTAIN EROSION CONTROL MEASURES AS NECESSARY AT STORMWATER INLETS AND LIMITS OF CONSTRUCTION.
5. INSTALL UNDERGROUND ELECTRICAL CONDUITS AND HIGH MAST LIGHTING.
6. REMOVE AND RESET TWO FIRE HYDRANTS.
7. PERFORM EARTHWORK ACTIVITIES: RAISE PAVEMENT RECONSTRUCTION AREA TO GRADE AND FINE GRADE.
8. CONSTRUCT PIER EXPANSION AND APPROACH SLAB. REPLACE TIMBER DECKING.
9. PLACE BITUMINOUS PAVEMENT BINDER AND SURFACE COURSES.
10. ADJUST CATCH BASIN AND MANHOLE INLETS TO GRADE AS NECESSARY.



FACILITY SECURITY DIAGRAM DURING CONSTRUCTION PHASE 3
 NTS

LEGEND

- CONTRACTOR WORK/STAGING AREA
- RESTRICTED AREA (NO ACCESS)
- EXISTING FACILITY SECURITY FENCING
- TEMPORARY FENCING

HNTB

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 017820.00

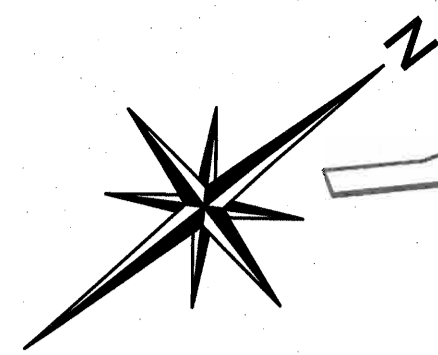
PROJ. MANAGER: CRAIG R. MORIN	DATE: 3/25/11
DESIGN-DETAILED: CRM	BY: HME
CHECKED-REVIEWED: CAH	DATE: 3/25/11
DESIGN-DETAILED2: -	RAJ
DESIGN-DETAILED3: -	RAJ
REVISIONS 1: -	RAJ
REVISIONS 2: -	RAJ
REVISIONS 3: -	RAJ
REVISIONS 4: -	RAJ
FIELD CHANGES: -	RAJ

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
CONSTRUCTION PHASING PLAN III

SHEET NUMBER

C7

H:\projects\017820\017820.dwg - 3/25/11 11:53:30 AM - 10/25/11



COMMERCIAL STREET

CONSTRUCT
3,400-SF PORT
OFFICE BUILDING

INSTALL CHAIN LINK
FENCE (135-LF)

INSTALL 16' MANUAL
SWING GATE

INSTALL 24'
MOTORIZED
SLIDING GATE

SHIFT TEMPORARY
FENCING TO
ORIGINAL LOCATION

RUBB
BLDG.

MAINT.
BLDG.

CONCRETE
PIER

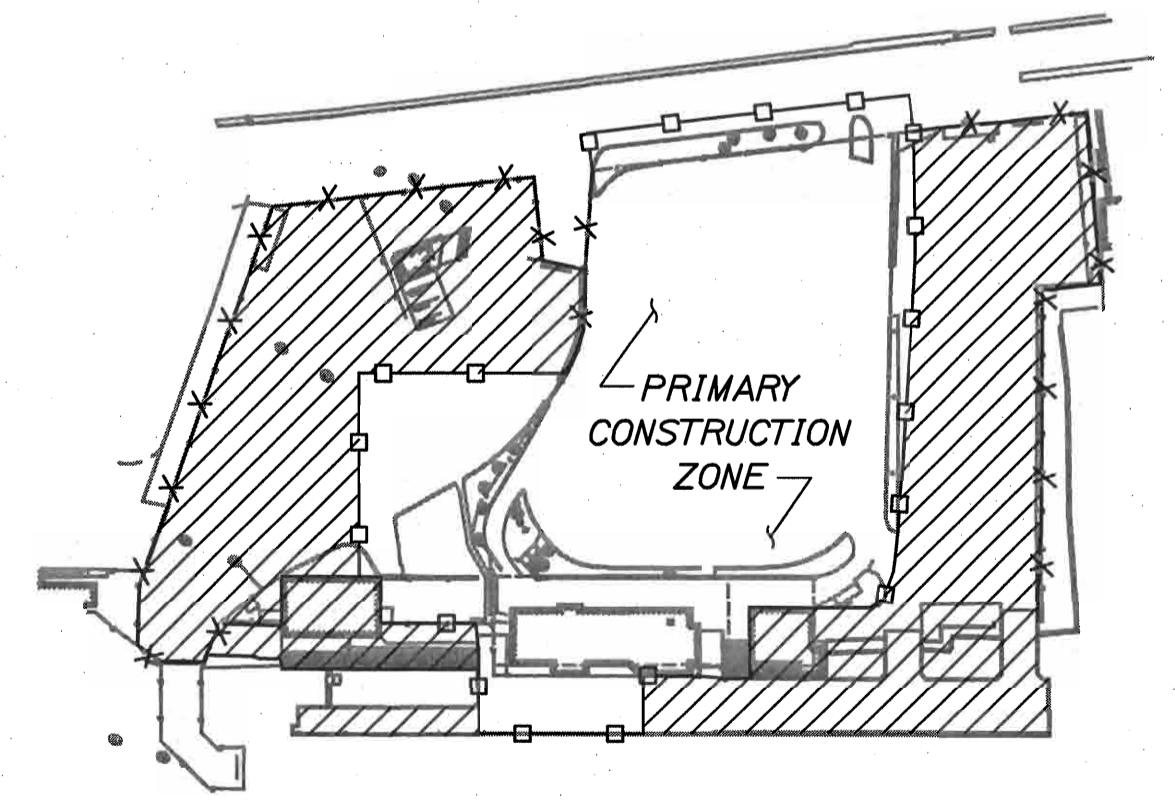
FORE RIVER
FLOOD ← EBB

**PHASE 4: CONSTRUCTION
OF PORT OFFICE BUILDING**

SCALE: 1"=50'-0"
25 0 50 100-FT

PHASE 4 NOTES:

1. SHIFT TEMPORARY FENCING BACK TO ORIGINAL LOCATION
2. CONSTRUCT PORT OFFICE BUILDING.
3. INSTALL CCTV SECURITY SYSTEM COMPONENTS IN NEW PORT OFFICE BUILDING. GALAXY INTEGRATED TECHNOLOGIES TO PUT SYSTEM ON LINE.
4. REMOVE AND STORE TEMPORARY CCTV SECURITY COMPONENTS AT PORT OFFICE TRAILER.
5. INSTALL PERMANENT CHAIN LINK FENCE AND GATES AT PORT OFFICE BUILDING.



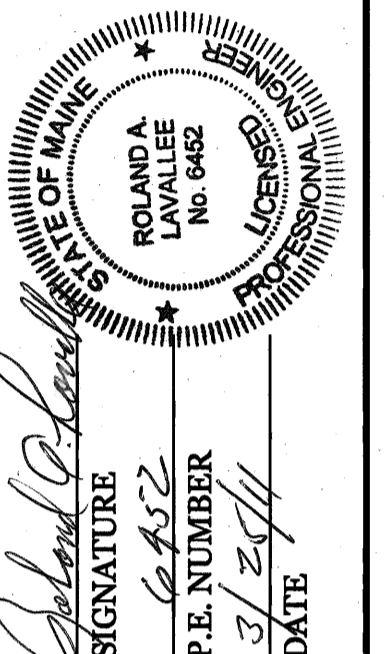
**FACILITY SECURITY DIAGRAM DURING
CONSTRUCTION PHASE 4**
NTS

LEGEND

- CONTRACTOR WORK/STAGING AREA
- ▨ RESTRICTED AREA (NO ACCESS)
- x-x- EXISTING FACILITY SECURITY FENCING
- TEMPORARY FENCING

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN
017820.00



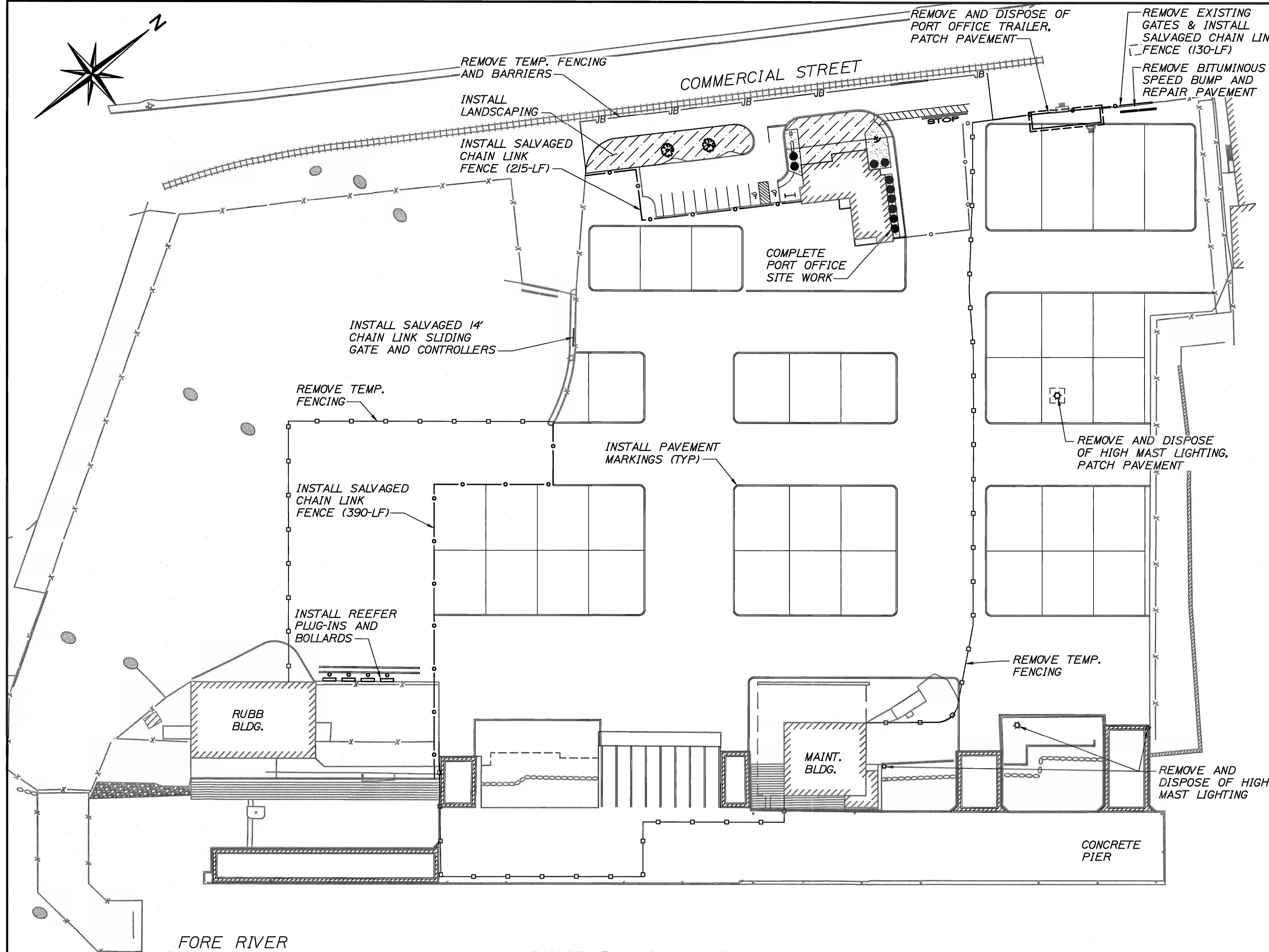
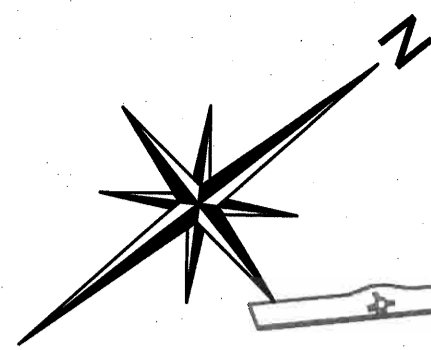
DATE	3/25/11
BY	HME RAL
PROJ. MANAGER	CRAIG R. MORIN
DESIGN-DETAILED	CRM
CHECKED-REVIEWED	CAH
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
CONSTRUCTION PHASING PLAN IV

SHEET NUMBER

C8

H:\2011\0301 - Main Port Authority\03 - Portland PRT Facility\02\04\05\06\07\08\09\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\41\42\43\44\45\46\47\48\49\50\51\52\53\54\55\56\57\58\59\60\61\62\63\64\65\66\67\68\69\70\71\72\73\74\75\76\77\78\79\80\81\82\83\84\85\86\87\88\89\90\91\92\93\94\95\96\97\98\99\100\101\102\103\104\105\106\107\108\109\110\111\112\113\114\115\116\117\118\119\120\121\122\123\124\125\126\127\128\129\130\131\132\133\134\135\136\137\138\139\140\141\142\143\144\145\146\147\148\149\150\151\152\153\154\155\156\157\158\159\160\161\162\163\164\165\166\167\168\169\170\171\172\173\174\175\176\177\178\179\180\181\182\183\184\185\186\187\188\189\190\191\192\193\194\195\196\197\198\199\200\201\202\203\204\205\206\207\208\209\210\211\212\213\214\215\216\217\218\219\220\221\222\223\224\225\226\227\228\229\230\231\232\233\234\235\236\237\238\239\240\241\242\243\244\245\246\247\248\249\250\251\252\253\254\255\256\257\258\259\260\261\262\263\264\265\266\267\268\269\270\271\272\273\274\275\276\277\278\279\280\281\282\283\284\285\286\287\288\289\290\291\292\293\294\295\296\297\298\299\300\301\302\303\304\305\306\307\308\309\310\311\312\313\314\315\316\317\318\319\320\321\322\323\324\325\326\327\328\329\330\331\332\333\334\335\336\337\338\339\340\341\342\343\344\345\346\347\348\349\350\351\352\353\354\355\356\357\358\359\360\361\362\363\364\365\366\367\368\369\370\371\372\373\374\375\376\377\378\379\380\381\382\383\384\385\386\387\388\389\390\391\392\393\394\395\396\397\398\399\400\401\402\403\404\405\406\407\408\409\410\411\412\413\414\415\416\417\418\419\420\421\422\423\424\425\426\427\428\429\430\431\432\433\434\435\436\437\438\439\440\441\442\443\444\445\446\447\448\449\450\451\452\453\454\455\456\457\458\459\460\461\462\463\464\465\466\467\468\469\470\471\472\473\474\475\476\477\478\479\480\481\482\483\484\485\486\487\488\489\490\491\492\493\494\495\496\497\498\499\500\501\502\503\504\505\506\507\508\509\510\511\512\513\514\515\516\517\518\519\520\521\522\523\524\525\526\527\528\529\530\531\532\533\534\535\536\537\538\539\540\541\542\543\544\545\546\547\548\549\550\551\552\553\554\555\556\557\558\559\560\561\562\563\564\565\566\567\568\569\570\571\572\573\574\575\576\577\578\579\580\581\582\583\584\585\586\587\588\589\590\591\592\593\594\595\596\597\598\599\600\601\602\603\604\605\606\607\608\609\610\611\612\613\614\615\616\617\618\619\620\621\622\623\624\625\626\627\628\629\630\631\632\633\634\635\636\637\638\639\640\641\642\643\644\645\646\647\648\649\650\651\652\653\654\655\656\657\658\659\660\661\662\663\664\665\666\667\668\669\670\671\672\673\674\675\676\677\678\679\680\681\682\683\684\685\686\687\688\689\690\691\692\693\694\695\696\697\698\699\700\701\702\703\704\705\706\707\708\709\710\711\712\713\714\715\716\717\718\719\720\721\722\723\724\725\726\727\728\729\730\731\732\733\734\735\736\737\738\739\740\741\742\743\744\745\746\747\748\749\750\751\752\753\754\755\756\757\758\759\760\761\762\763\764\765\766\767\768\769\770\771\772\773\774\775\776\777\778\779\780\781\782\783\784\785\786\787\788\789\790\791\792\793\794\795\796\797\798\799\800\801\802\803\804\805\806\807\808\809\810\811\812\813\814\815\816\817\818\819\820\821\822\823\824\825\826\827\828\829\830\831\832\833\834\835\836\837\838\839\840\841\842\843\844\845\846\847\848\849\850\851\852\853\854\855\856\857\858\859\860\861\862\863\864\865\866\867\868\869\870\871\872\873\874\875\876\877\878\879\880\881\882\883\884\885\886\887\888\889\890\891\892\893\894\895\896\897\898\899\900\901\902\903\904\905\906\907\908\909\910\911\912\913\914\915\916\917\918\919\920\921\922\923\924\925\926\927\928\929\930\931\932\933\934\935\936\937\938\939\940\941\942\943\944\945\946\947\948\949\950\951\952\953\954\955\956\957\958\959\960\961\962\963\964\965\966\967\968\969\970\971\972\973\974\975\976\977\978\979\980\981\982\983\984\985\986\987\988\989\990\991\992\993\994\995\996\997\998\999\1000

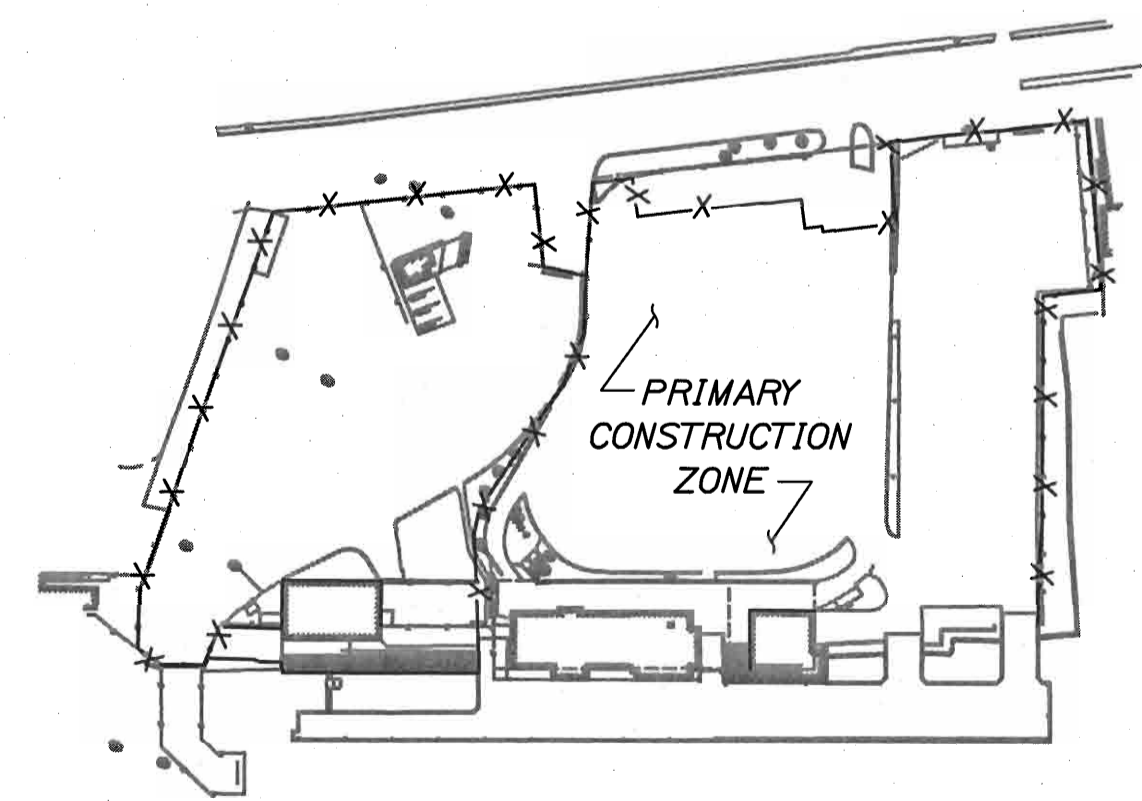


PHASE 5: MISCELLANEOUS CONSTRUCTION ACTIVITIES

SCALE: 1"=50'-0"
25 0 50 100-FT

PHASE 5 NOTES:

1. TERMINATE PORT OFFICE TRAILER UTILITIES.
2. TERMINATE REMAINING US CUSTOMS BUILDING UTILITIES.
3. REMOVE CCTV SECURITY COMPONENTS AT PORT OFFICE TRAILER AND HAND OVER TO GALAXY INTEGRATED.
4. REMOVE AND STORE CARD READERS, REMOVE AND DISPOSE OF SLIDING GATE AND BAR GATE.
5. REMOVE AND DISPOSE OF PORT OFFICE TRAILER.
6. REMOVE AND DISPOSE OF HIGH MAST LIGHTING.
7. PATCH PAVEMENT TO MATCH EXISTING PAVEMENT.
8. INSTALL SITE FEATURES AND LANDSCAPING AT PORT OFFICE BUILDING.
9. INSTALL PERMANENT FENCING.
10. INSTALL REEFER PLUG-INS AND OWNER SUPPLIED LARGE STEEL SITE BOLLARDS.
11. INSTALL PAVEMENT MARKINGS AT OFFICE PARKING LOT, WITHIN FACILITY, AND ON PIER.
12. REMOVE TEMPORARY FENCING.



FACILITY SECURITY DIAGRAM DURING CONSTRUCTION PHASE 5
NTS

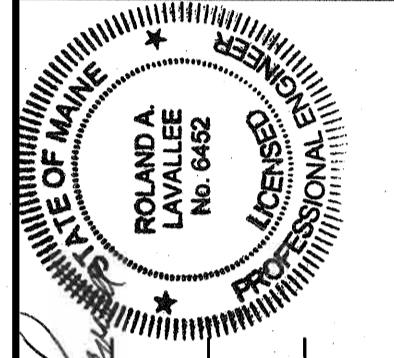
LEGEND

- CONTRACTOR WORK/STAGING AREA
- ▨ RESTRICTED AREA (NO ACCESS)
- x-x- EXISTING FACILITY SECURITY FENCING
- TEMPORARY FENCING

NOTE: TEMPORARY SECURITY MEASURES DURING THIS PHASE OF CONSTRUCTION WILL BE DETERMINED BY THE RESIDENT BASED ON THE EXTENT OF THE FINAL PUNCH LIST ITEMS TO BE COMPLETED.

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00



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P.E. NUMBER: 6462
DATE: 3/25/11

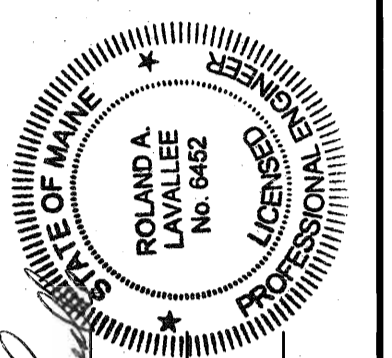
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CRAIG R. MORIN	3/25/11	HME	1
	3/25/11	RAL	2
			3
			4
			FIELD CHANGES

PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS
CUMBERLAND COUNTY
CONSTRUCTION PHASING PLAN V

SHEET NUMBER

C9

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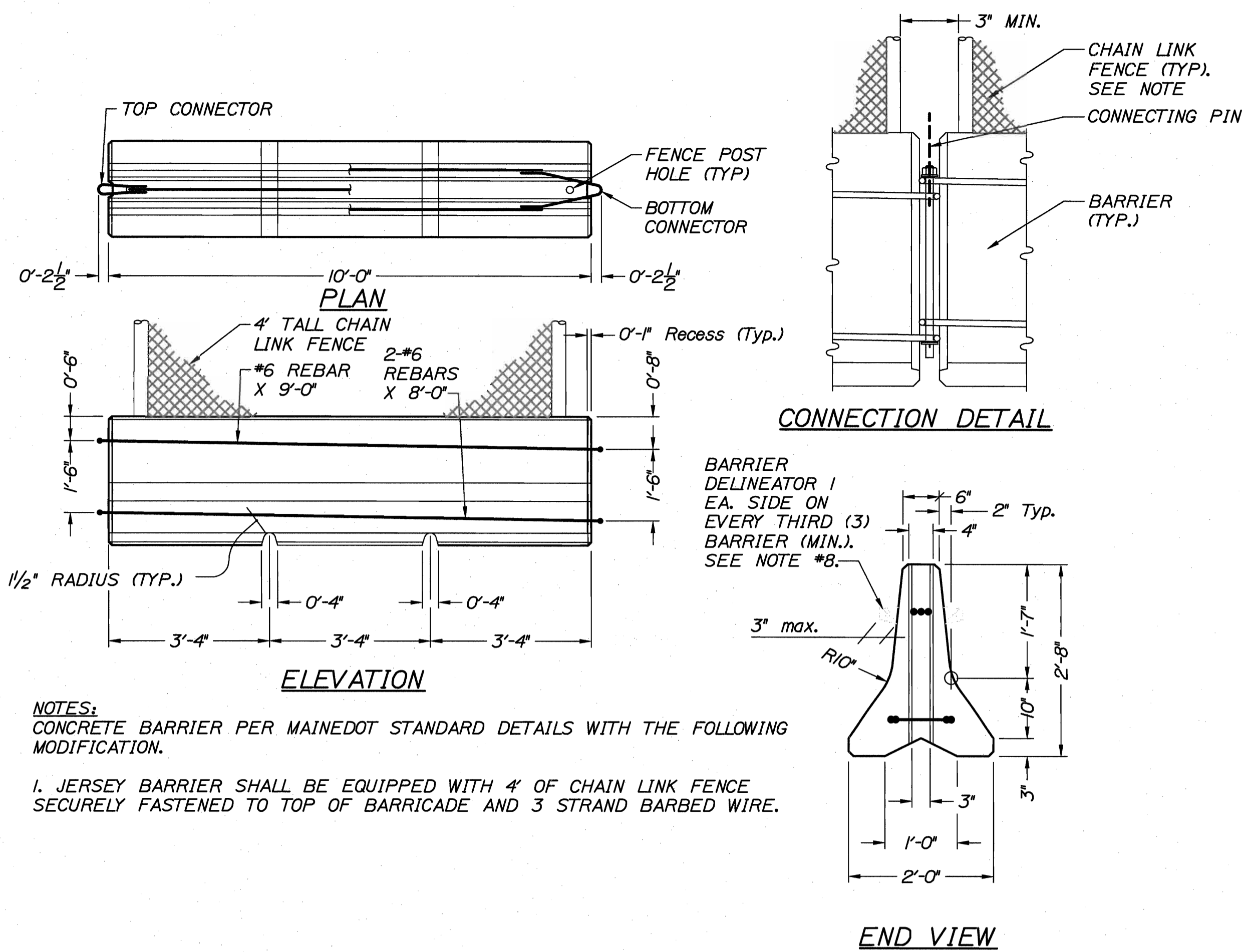


Signature: *[Signature]*
DATE: 3/25/11

PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	HME	BY	HME
CHECKED-REVIEWED	CAH	DATE	3/25/11
DESIGN-DETAILED2	-	BY	-
DESIGN-DETAILED3	-	DATE	-
REVISIONS 1	-	P.E. NUMBER	6462
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REVISIONS 3	-	DATE	-
REVISIONS 4	-	DATE	-
FIELD CHANGES	-	DATE	-

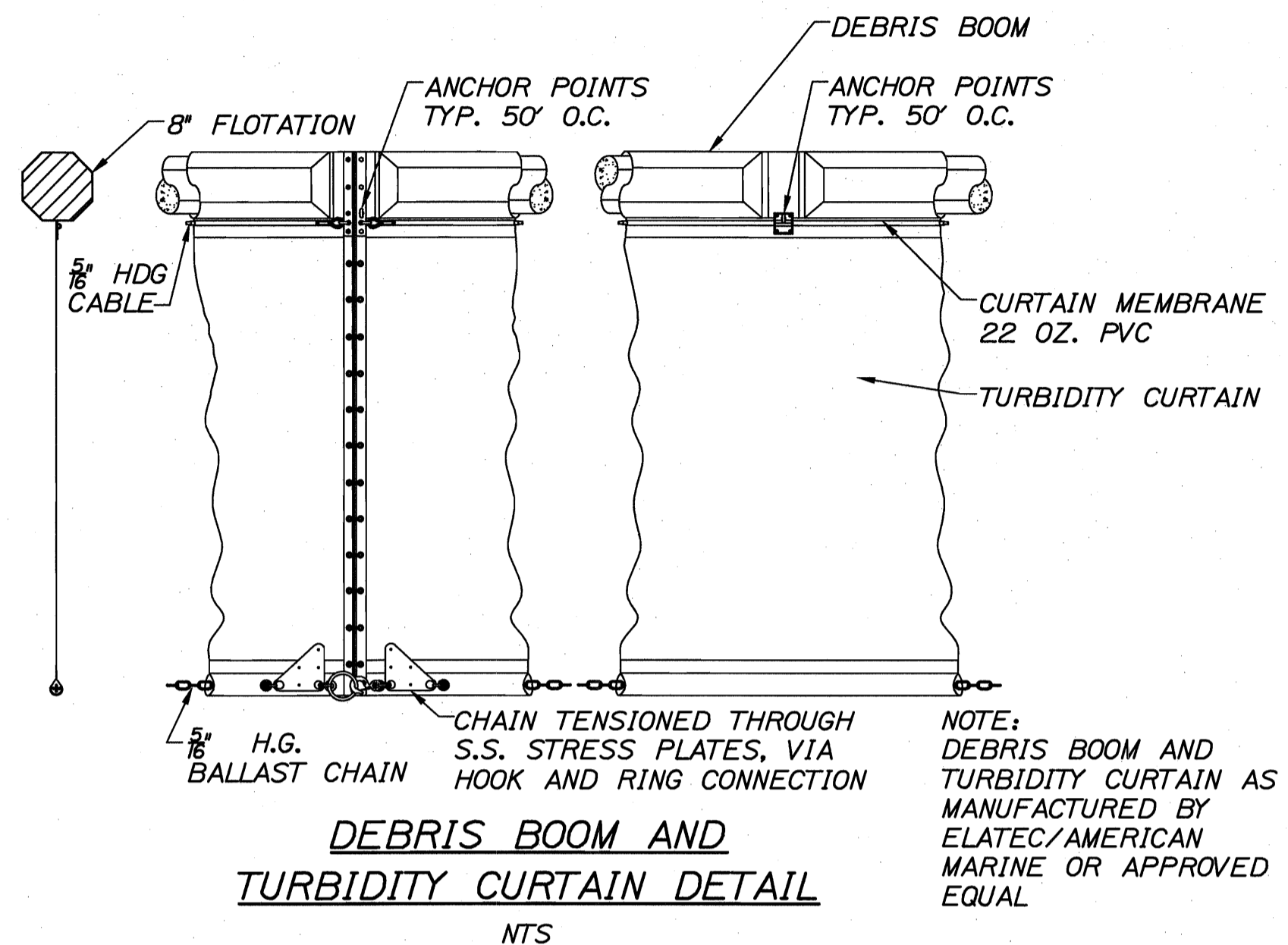
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
CONSTRUCTION PHASING DETAILS

SHEET NUMBER
C10
13 OF 71



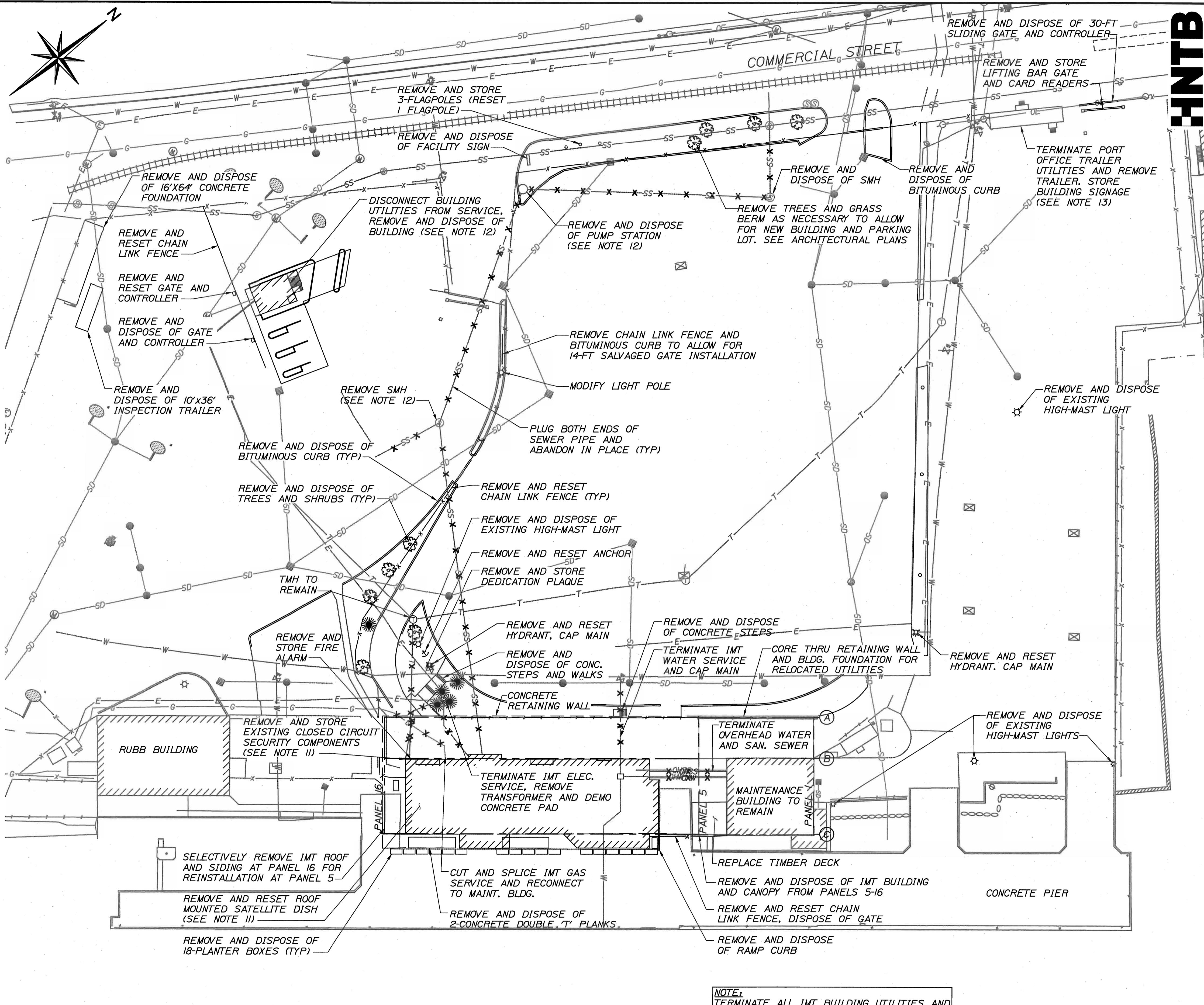
NOTES:
CONCRETE BARRIER PER MAINEDOT STANDARD DETAILS WITH THE FOLLOWING MODIFICATION.

1. JERSEY BARRIER SHALL BE EQUIPPED WITH 4' OF CHAIN LINK FENCE SECURELY FASTENED TO TOP OF BARRICADE AND 3 STRAND BARBED WIRE.



DEMOLITION NOTES

1. THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE RESIDENT AT LEAST 21 DAYS PRIOR TO THE START OF DEMOLITION WORK. THE PLAN SHALL OUTLINE THE METHODS AND EQUIPMENT TO BE USED TO REMOVE AND DISPOSE OF ALL MATERIALS. CONTRACTOR TO COORDINATE DEMOLITION WITH CONSTRUCTION PHASING PLANS.
2. THE LIMITS SHOWN ON THIS PLAN ARE APPROXIMATE. ACTUAL LIMITS AND FIELD CONDITIONS MAY VARY FROM THOSE SHOWN AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION. ANY INCONSISTENCIES TO THESE PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE RESIDENT BY THE CONTRACTOR AS SOON AS REALIZED.
3. ANY DAMAGE TO EXISTING STRUCTURES TO REMAIN CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. DEMOLITION MATERIAL DISPOSAL SHALL BE IN ACCORDANCE WITH ALL LOCAL STATE AND FEDERAL REGULATIONS AND ALL MATERIALS SHALL BE DISPOSED OF IN A LEGAL MANNER.
5. ALL EXISTING FOUNDATIONS, UNLESS OTHERWISE NOTED, SHALL BE REMOVED TO DEPTH OF 3' BELOW FINISHED GRADES AND SHALL BE BACKFILLED WITH GRANULAR BORROW AND COMPACTED AS OUTLINED IN THE SPECIFICATIONS.
6. ALL EXISTING PILES LOCATED BENEATH THE IMT BUILDING SHALL BE CUT TO WITHIN 3' OF GRADE OR MUDLINE UNLESS OTHERWISE NOTED. IN THE EVENT EXISTING PILES INTERFERE WITH PROPOSED PILES IT MAY BE NECESSARY TO COMPLETELY REMOVE EXISTING PILES.
7. EXISTING T-1 COMMUNICATION LINE SHALL NOT BE DISTURBED.
8. THE UTILITIES INVOLVED IN THIS PROJECT ARE AS FOLLOWS:
 ELECTRICAL: CENTRAL MAINE POWER
 WATER: PORTLAND WATER DISTRICT (PWD)
 SEWER: PORTLAND PUBLIC WORKS DEPARTMENT
 GAS: NORTHERN UTILITIES
 CCTV: GALAXY INTEGRATED TECHNOLOGIES
 TI: FAIRPOINT COMMUNICATIONS
 FIRE: CITY OF PORTLAND FIRE DEPARTMENT (PFD)
 TELEPHONE: FAIRPOINT COMMUNICATIONS
9. CONTRACTOR SHALL CONTACT RESPECTIVE UTILITY OWNERS PRIOR TO ADJUSTMENT TO DETERMINE LIMITS OF WORK REQUIRED FOR EACH UTILITY.
10. CONTRACTOR SHALL CONTACT DIG-SAFE PRIOR TO START OF WORK TO VERIFY ALL UTILITIES.
11. THE EXISTING CLOSED CIRCUIT TV MONITORING SYSTEM AND SATELLITE DISH MUST REMAIN ONLINE AT ALL TIMES. RELOCATION OF THE SECURITY MONITORING SYSTEM MUST BE ACCOMPLISHED AND FULLY OPERATIONAL PRIOR TO DEMOLITION OF THE TERMINAL BUILDING AND THE PORT OFFICE TRAILER. CONTRACTOR TO COORDINATE WITH GALAXY INTEGRATED PRIOR TO DEMOLITION.
12. THE ELECTRICAL CONTROLS FOR THE SANITARY SEWER PUMP STATION ARE LOCATED WITHIN THE U.S. CUSTOMS BUILDING AND MUST REMAIN OPERATIONAL UNTIL THE NEW SANITARY SERVICE FOR THE MAINTENANCE BUILDING IS FULLY FUNCTIONAL.
13. REMOVAL OF THE PORT OFFICE TRAILER TO COMMENCE UPON OWNER'S ACCEPTANCE OF THE NEW PORT OFFICE BUILDING AND RELOCATION OF ASSOCIATED UTILITIES, SECURITY SYSTEM AND ACCESS CONTROL SYSTEMS.
14. THE CONTRACTOR ACCESS IS LIMITED TO THE AREA WITHIN THE TEMPORARY FENCING LIMITS SO AS TO NOT INTERFERE WITH DAILY OPERATIONS OF PORT FACILITY. IN THE EVENT ACCESS BEYOND THE FENCE IS REQUIRED THE CONTRACTOR MUST FIRST OBTAIN PERMISSION FROM THE AUTHORITY PRIOR TO PROCEEDING.
15. THE CONTRACTOR SHALL SELECTIVELY DEMOLISH PORTIONS OF THE IMT BUILDING ADJACENT TO THE MAINTENANCE BUILDING AT PANEL 5. THE MAINTENANCE BUILDING ROOF AND CANOPY STRUCTURE SHALL REMAIN IN PLACE BETWEEN PANELS 1-5. SEE SHEET C12.
16. CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITIES TO ARRANGE FOR TERMINATION AND REMOVAL OF UTILITY OWNED EQUIPMENT (CENTRAL MAINE POWER, NORTHERN UTILITIES, PWD, GALAXY INTEGRATED AND PFD)



FORE RIVER
 FLOOD ← → EBB

SITE DEMOLITION PLAN
 SCALE: 1"=40'-0"



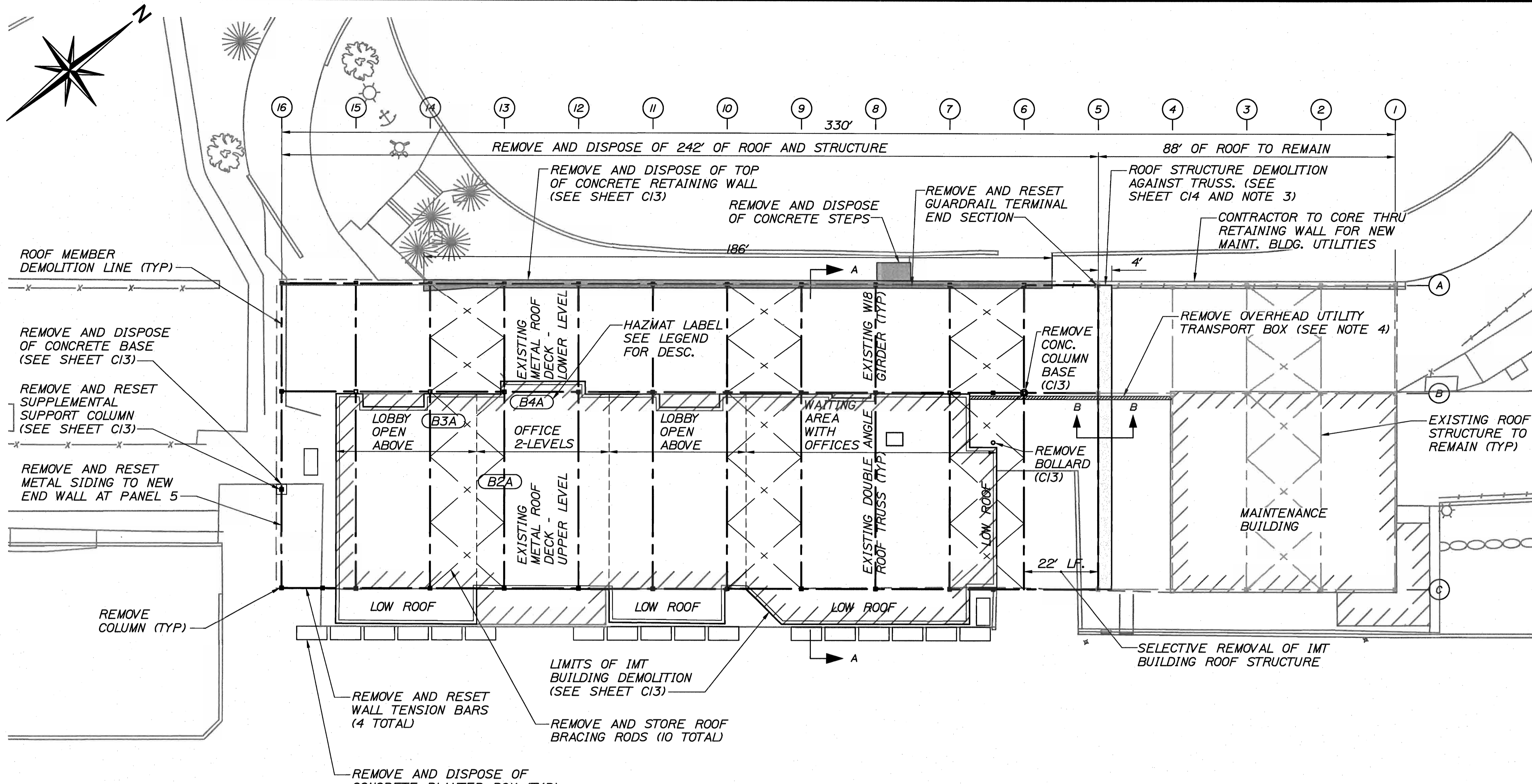
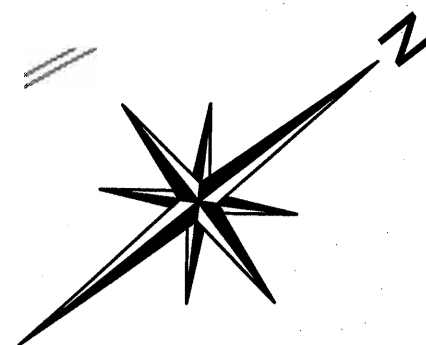
NOTE:
 TERMINATE ALL IMT BUILDING UTILITIES AND RECONNECT OR INSTALL NEW SERVICES TO MAINTENANCE BUILDING PRIOR TO START OF SUBSEQUENT PHASE

HNTB
 STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 017820.00

PROJ. MANAGER	GRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	HME	BY	HME
CHECKED-REVIEWED	CRM	DATE	3/25/11
DESIGN-DETAILED2		BY	RAL
DESIGN-DETAILED3		DATE	
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REVISIONS 2		DATE	3/25/11
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

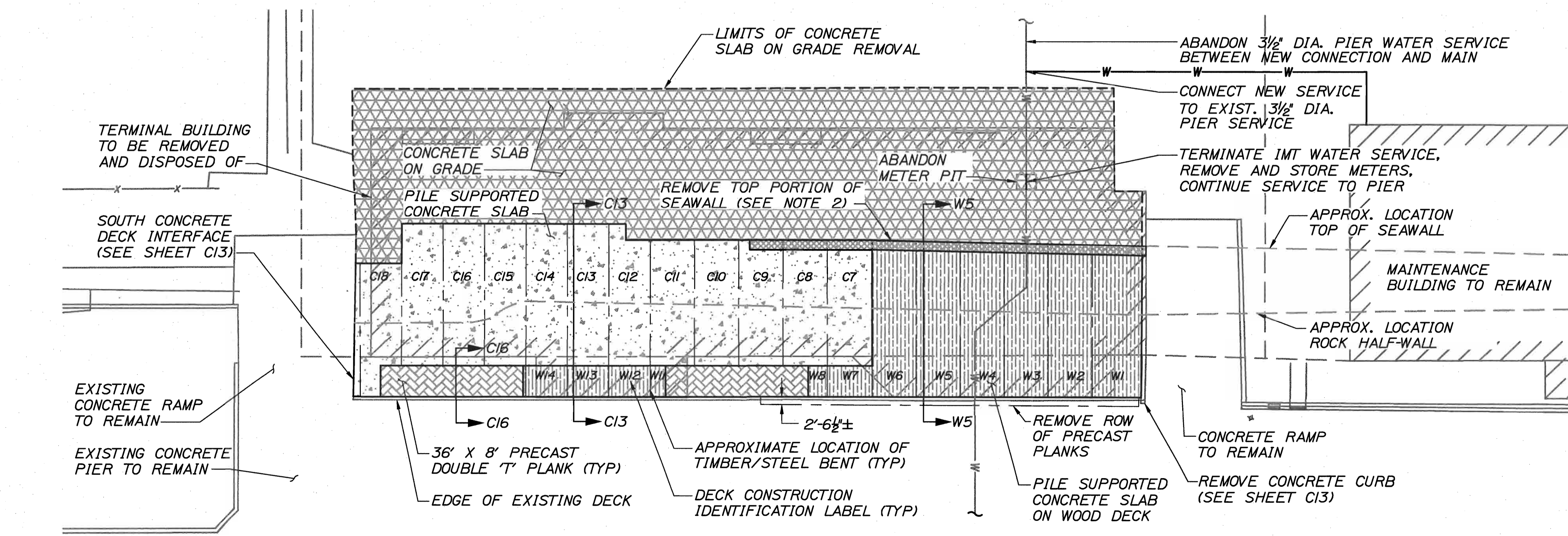
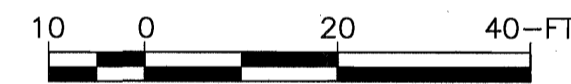
PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
SITE DEMOLITION PLAN

SHEET NUMBER
C11
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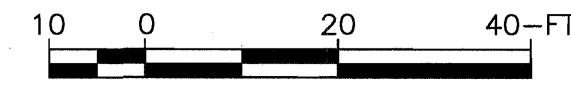
IMT BUILDING STRUCTURAL DEMOLITION PLAN

SCALE: 1"=20'-0"



IMT BUILDING DECK DEMOLITION PLAN

SCALE: 1"=20'-0"



STRUCTURAL DEMOLITION NOTES:

1. SPRINKLER SYSTEM PIPING BETWEEN PANEL 1 AND PANEL 5 AND COLUMNS A-C SHALL BE RECONNECTED TO NEW MAINTENANCE BUILDING SPRINKLER SERVICE. SEE SHEET C18.
2. EXACT LOCATION OF SANITARY SEWER AND WATER SERVICE AND EXTENTS WITHIN STRUCTURE UNKNOWN.
3. DEMOLITION OF STRUCTURE REQUIRES STRUCTURAL SUPPORT MODIFICATIONS TO REMAIN STABLE. CONTRACTOR TO COORDINATE WORK WITH APPROPRIATE CONTRACTOR DURING DEMOLITION. WORK MUST BE COMPLETED PRIOR TO REMOVING FRAMING AT COLUMN LINES 6 AND 7.
4. OVERHEAD UTILITY BOX TO REMAIN IN SERVICE UNTIL NEW SANITARY SEWER AND WATER CONNECTIONS TO MAINTENANCE BUILDING ARE INSTALLED AND OPERATIONAL.
5. CONTRACTOR TO COORDINATE COMPLETE REMOVAL OF SECURITY SYSTEM (CCTV CAMERAS AND ROOF MOUNTED SATELLITE DISH) WITH GALAXY INTEGRATED TECHNOLOGIES PRIOR TO DEMOLITION. ALL EQUIPMENT SHALL BE SALVAGED AND PROVIDED TO THE OWNER.
6. SEE ASBESTOS ABATEMENT REPORT LOCATED IN THE APPENDIX OF THE SPECIFICATIONS FOR THE EXACT LOCATION, DESCRIPTION AND QUANTITY OF HAZMAT'S.
7. ALL STRUCTURAL STEEL CONTAINS LEAD PAINT. PROPER HANDLING OF MATERIALS IS REQUIRED AND SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL REQUIREMENTS FOR HANDLING AND DISPOSAL.

DECK DEMOLITION NOTES:

1. CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION ACTIVITIES TO NOT DAMAGE EXISTING CONCRETE STRUCTURES TO REMAIN. IN EVENT DAMAGE TO RAMPS OR PIER OCCURS THE CONTRACTOR SHALL REPLACE OR REPAIR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL EXPENSE.
2. CONTRACTOR SHALL SELECTIVELY DEMOLISH THE TOP PORTION OF THE EXISTING SEAWALL TO ALLOW FOR THE NEW PIER CONSTRUCTION. THE ANTICIPATED LIMITS OF REMOVAL REQUIRE MODIFICATIONS TO THE CAST IN PLACE CONCRETE CAP ATOP THE ORIGINAL GRANITE MASONRY AND ALSO SEVERAL ROWS OF BRICK BLOCKING.
3. HEAVY CONSTRUCTION EQUIPMENT MUST REMAIN A MINIMUM OF 20-FT BEHIND THE SEAWALL DURING DECK DEMOLITION UNLESS APPROVED BY THE RESIDENT.
4. REFER TO SECTION 31 62 IT FOR ADDITIONAL INFORMATION RELATED TO THE EXISTING SEAWALL.

FOUNDATION DEMOLITION NOTES:

1. CONTRACTOR SHALL SELECTIVELY REMOVE TOP PORTIONS OF EXISTING CONCRETE FOUNDATIONS TO A DEPTH OF 3 FEET BELOW FINISH GRADE. SEE DETAIL 5 SHEET C14.
2. IF PILES ARE PRESENT BENEATH THE EXISTING IMT BUILDING, A PILE LAYOUT SURVEY SHALL BE CONDUCTED PRIOR TO PIER PILE INSTALLATION TO DETERMINE WHICH, IF ANY, PILES INTERFERE WITH PILE INSTALLATION. SOME EXISTING PILES MAY REQUIRE EXTRACTION TO FACILITATE PILE INSTALLATION.

HAZARDOUS MATERIAL QUANTITY LIST:

SAMPLE	MATERIALS
B2A	ASBESTOS MASTIC ADHESIVE 14-STAIR RISERS 35-SF STAIRWELL LANDING
B3A	ASBESTOS VINYL FLOOR TILE 215-SF
B4A	ASBESTOS VINYL FLOOR TILE 20-SF
NS-1	HOT AIR SYSTEM EXPANSION GASKETS
NS-2	MERCURY VAPOR/METAL HALIDE LIGHT TUBES 148-FIXTURES, 2-4 LIGHTS/FIXTURE
NS-3	MERCURY THERMOSTAT TUBES 20-LOCATIONS +/-
NS-4	BATTERY PACKS/LIGHT TUBES AT ALL EXIT & EMERGENCY LIGHTS
NS-5	POSSIBLE PCB BALLAST ALL LIGHT TUBES
LEAD PAINT	EXTERIOR COLUMNS OF IMT BUILDING

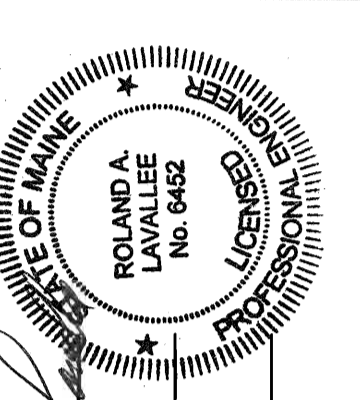
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LEGEND

- CONCRETE SLAB ON WOOD DECK REMOVAL
- CONCRETE SLAB REMOVAL
- CONCRETE SLAB ON GRADE REMOVAL
- PRECAST DOUBLE 'T' PLANK REMOVAL
- SEAWALL TOP SELECTIVE REMOVALS
- WI CONCRETE WITH WOOD DECK LABEL
- CI CONCRETE ONLY DECK LABEL

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00



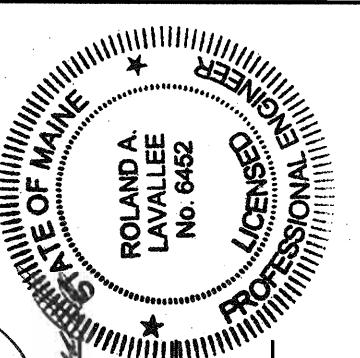
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CRAIG R. MORIN									

PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
TERMINAL BUILDING DEMOLITION PLAN

SHEET NUMBER

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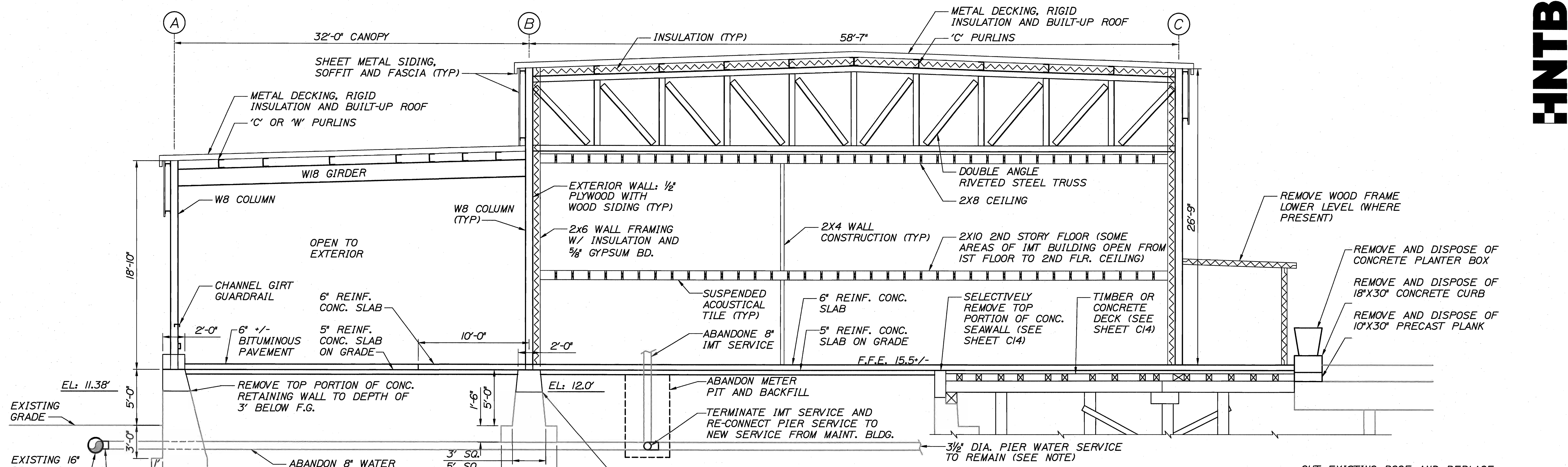
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PROJ. MANAGER	CRAIG R. MORIN
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CHECKED-REVIEWED	CAH
DESIGN-RETAILED	1
REVISIONS	1
REVISIONS	2
REVISIONS	3
REVISIONS	4
FIELD CHANGES	

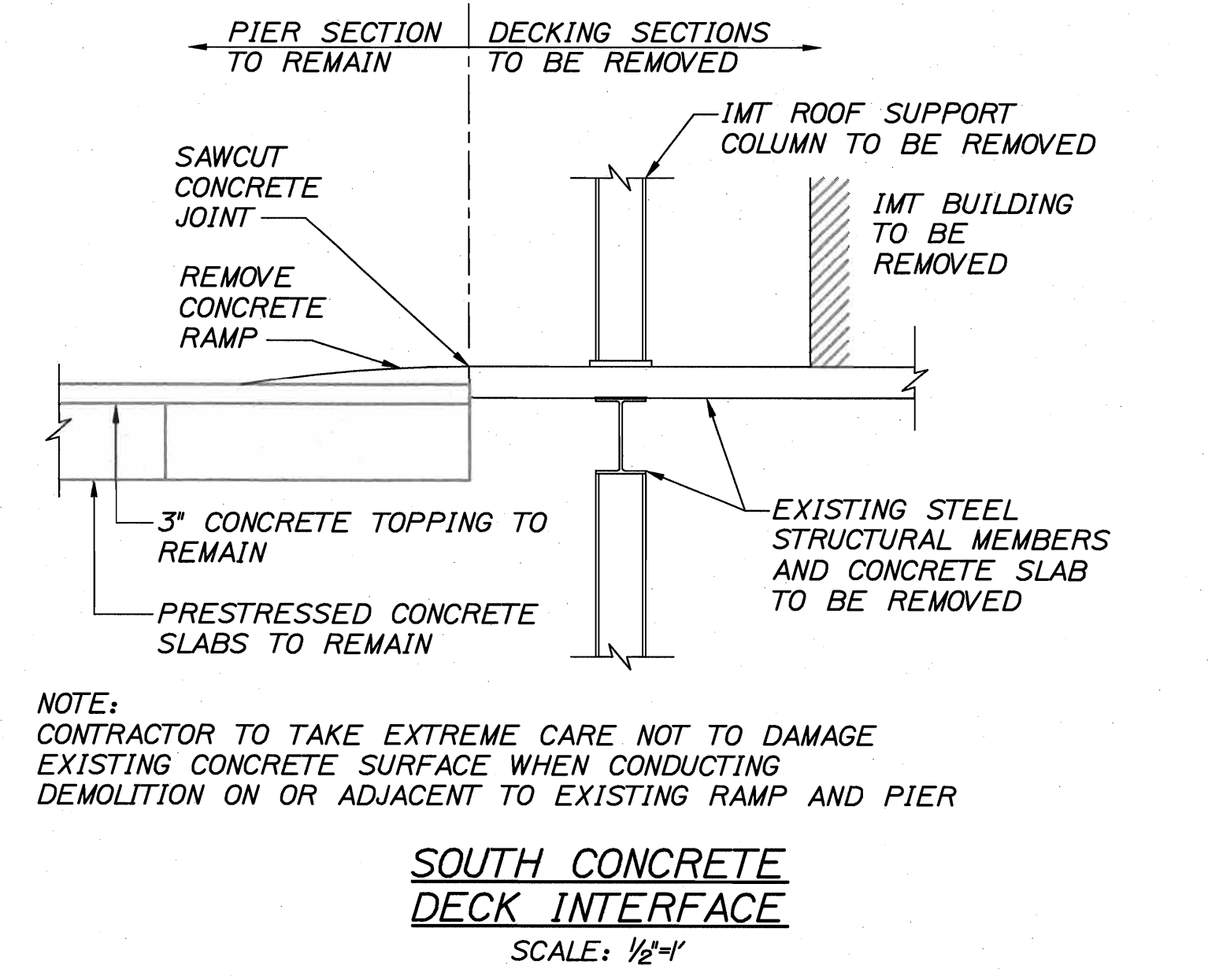
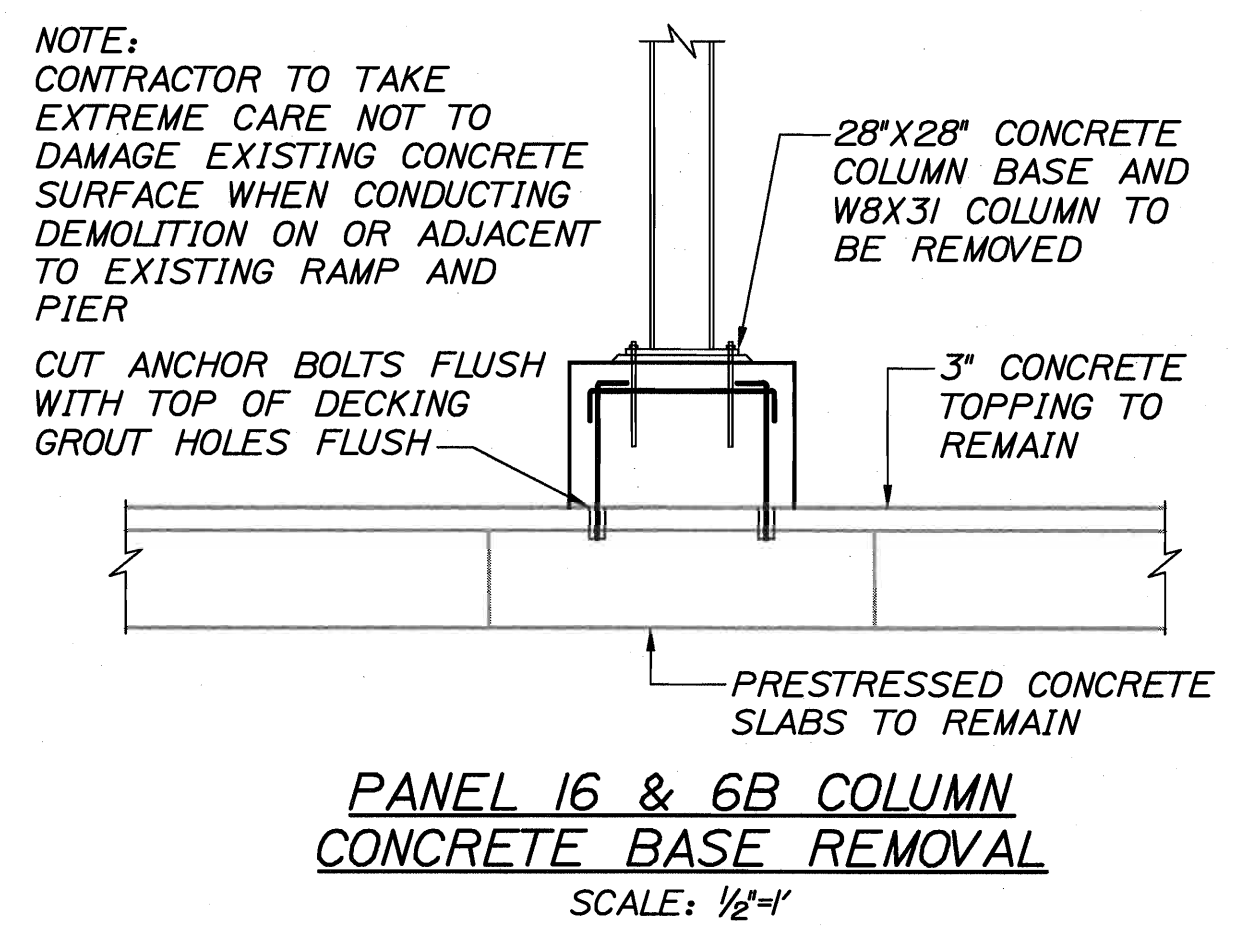
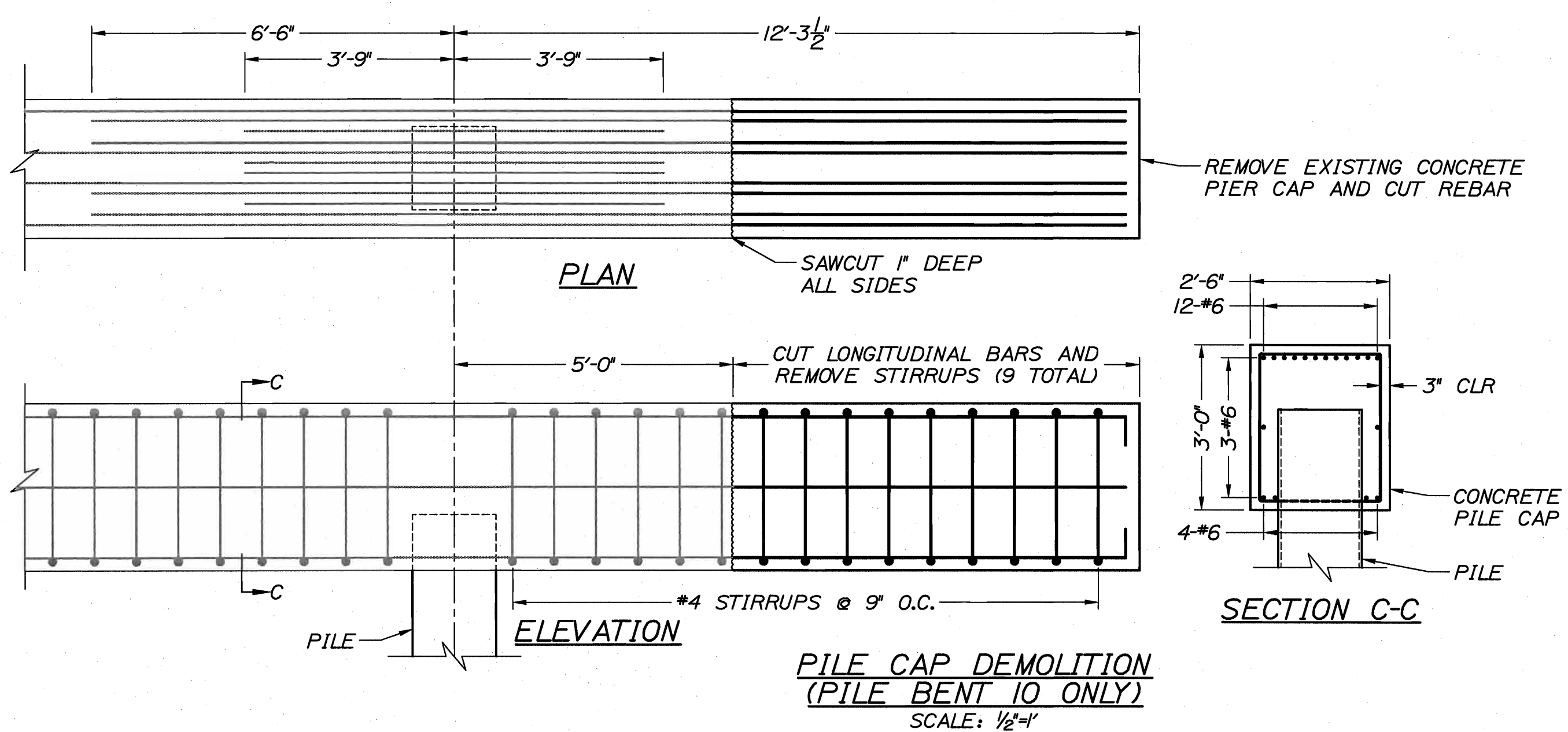
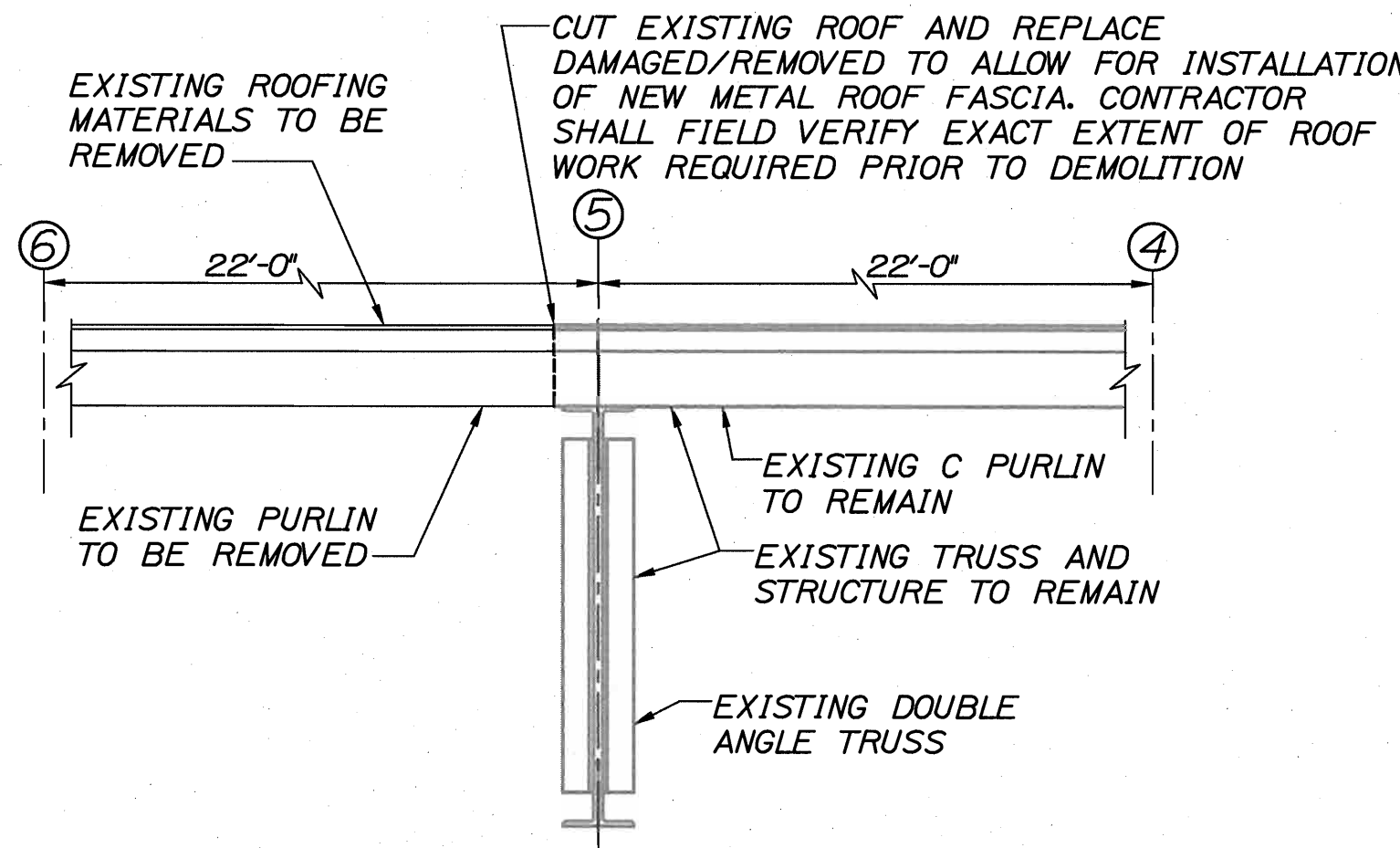
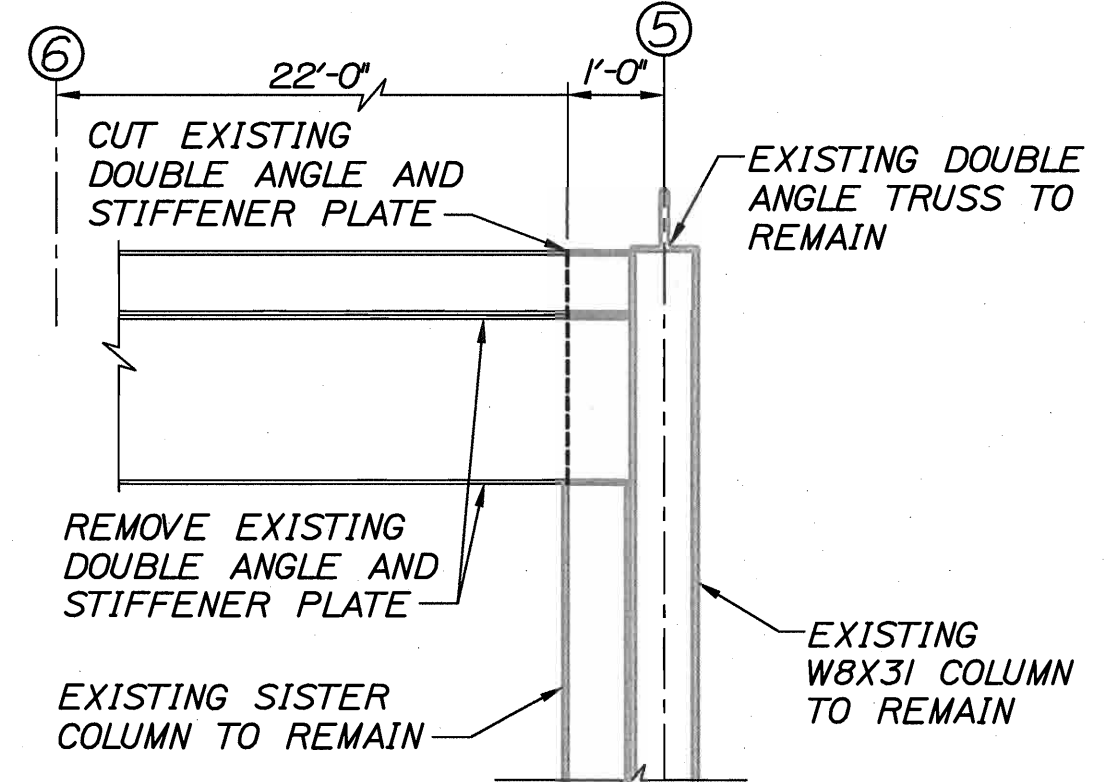
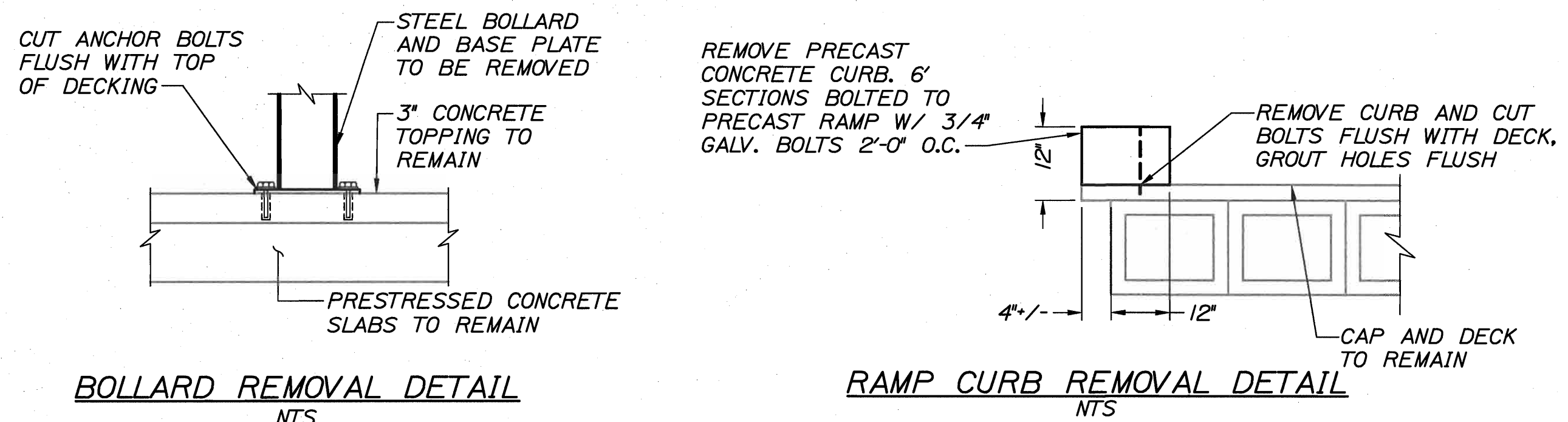
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
**TERMINAL BUILDING
DEMOLITION DETAILS I**

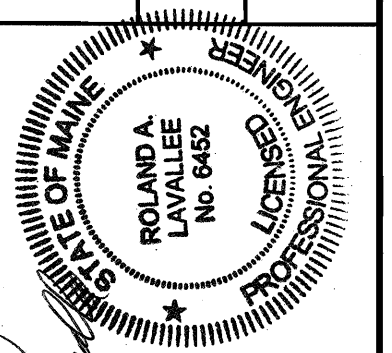
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NOTE:
THE EXISTING PIER WATER SERVICE TO REMAIN IN SERVICE. CONTRACTOR TO TERMINATE IMT BUILDING SERVICE AND CAP AT 16" MAIN. PROTECT AND PROVIDE TEMPORARY SUPPORT TO PIER SERVICE DURING CONSTRUCTION. ALL VALVES AND METERS LOCATED WITHIN THE METER PIT TO BE REMOVED AND RETURNED TO THE PORTLAND WATER DISTRICT.



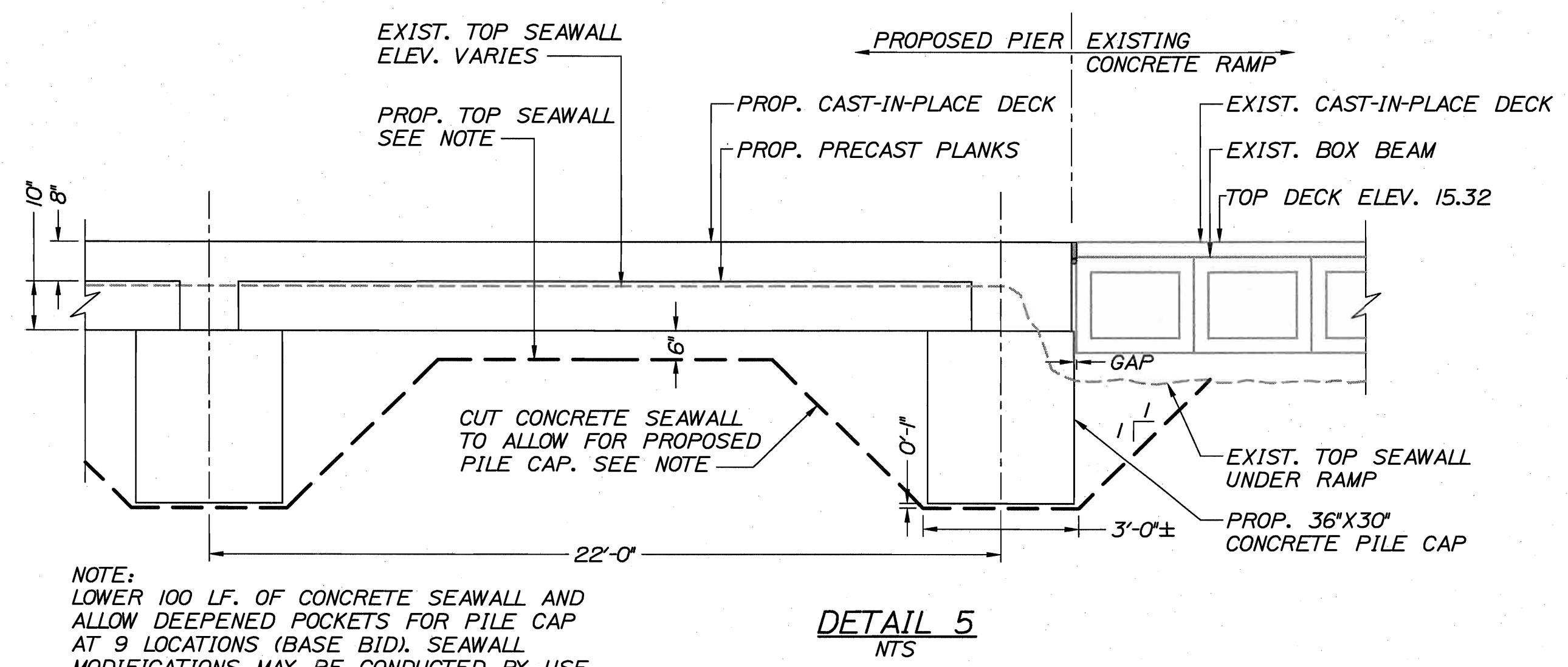
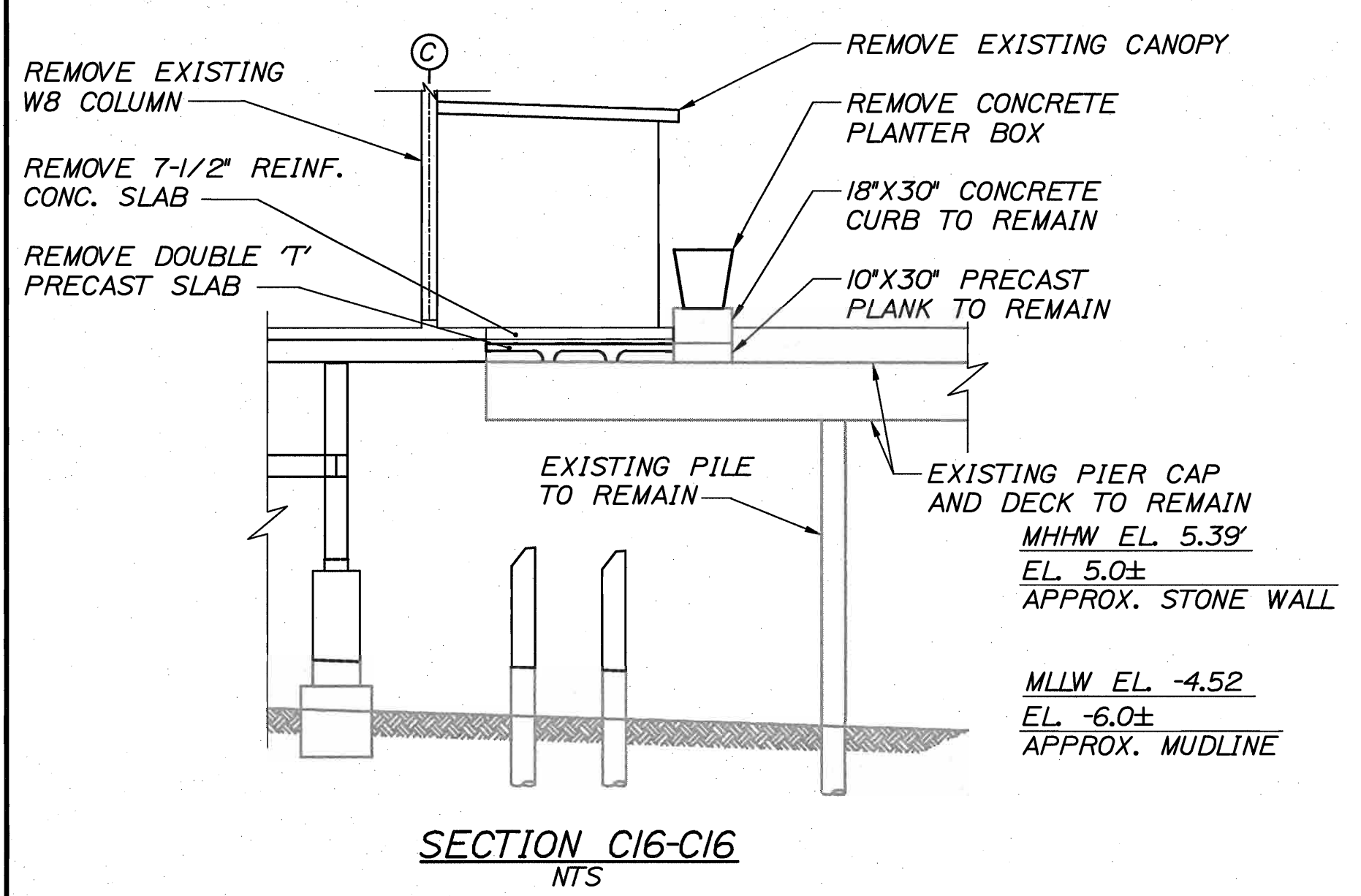
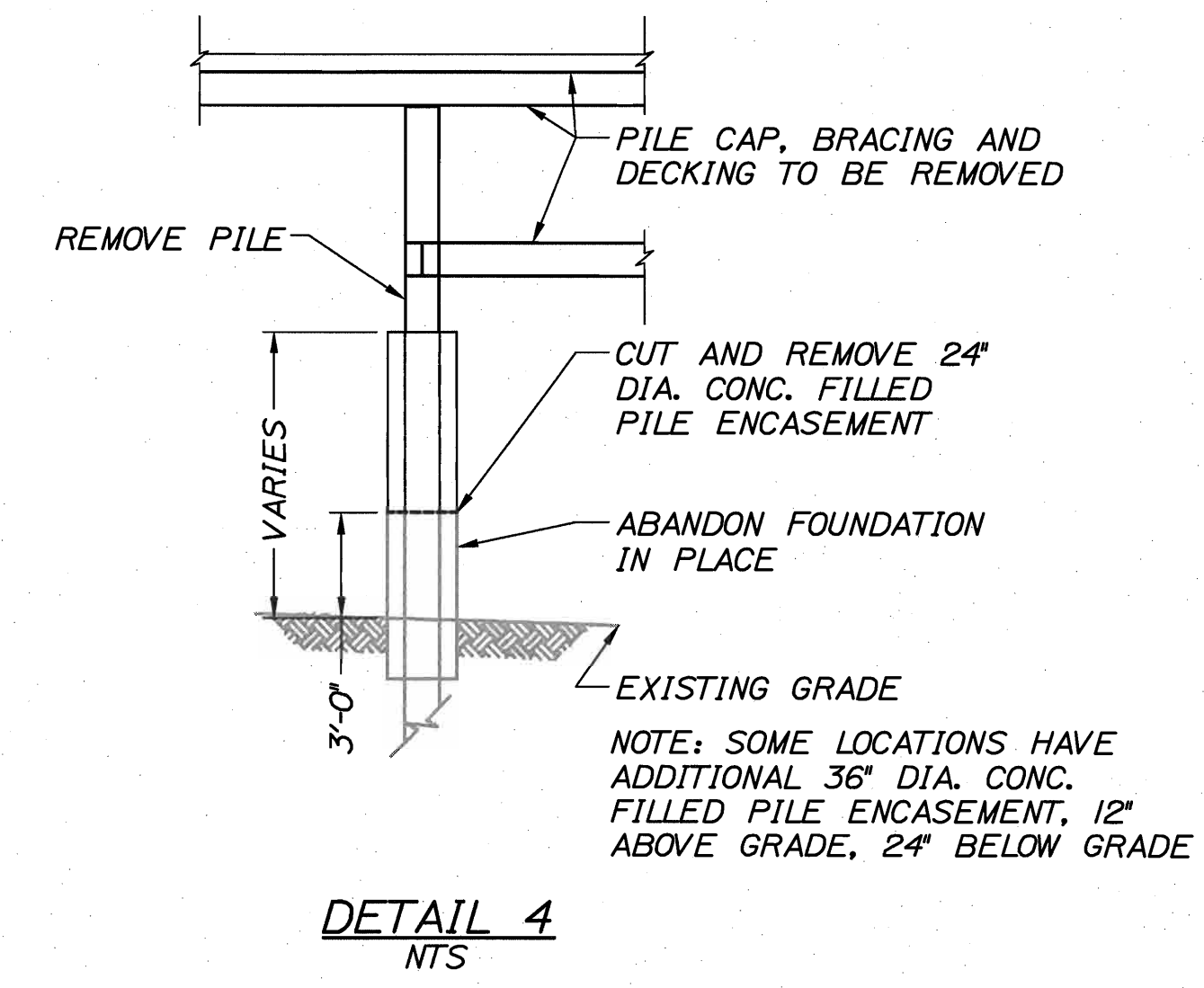
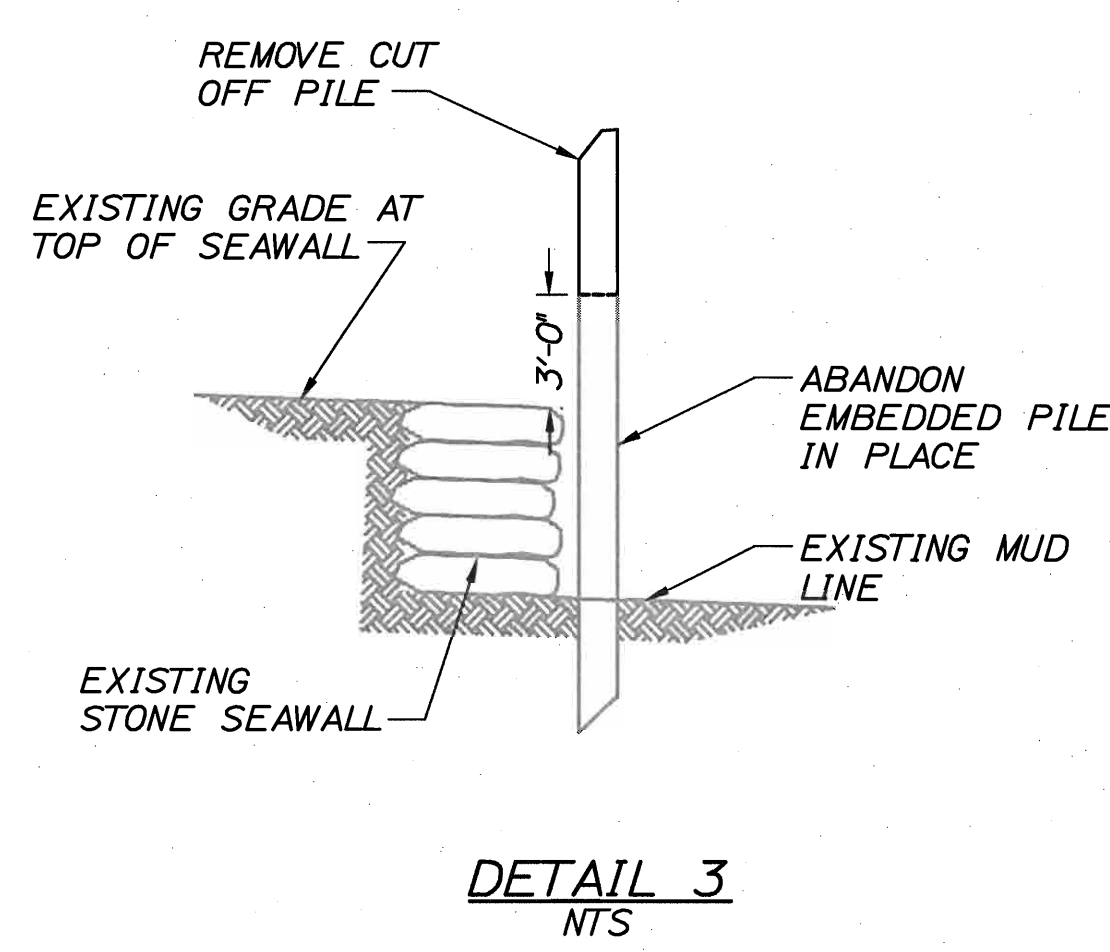
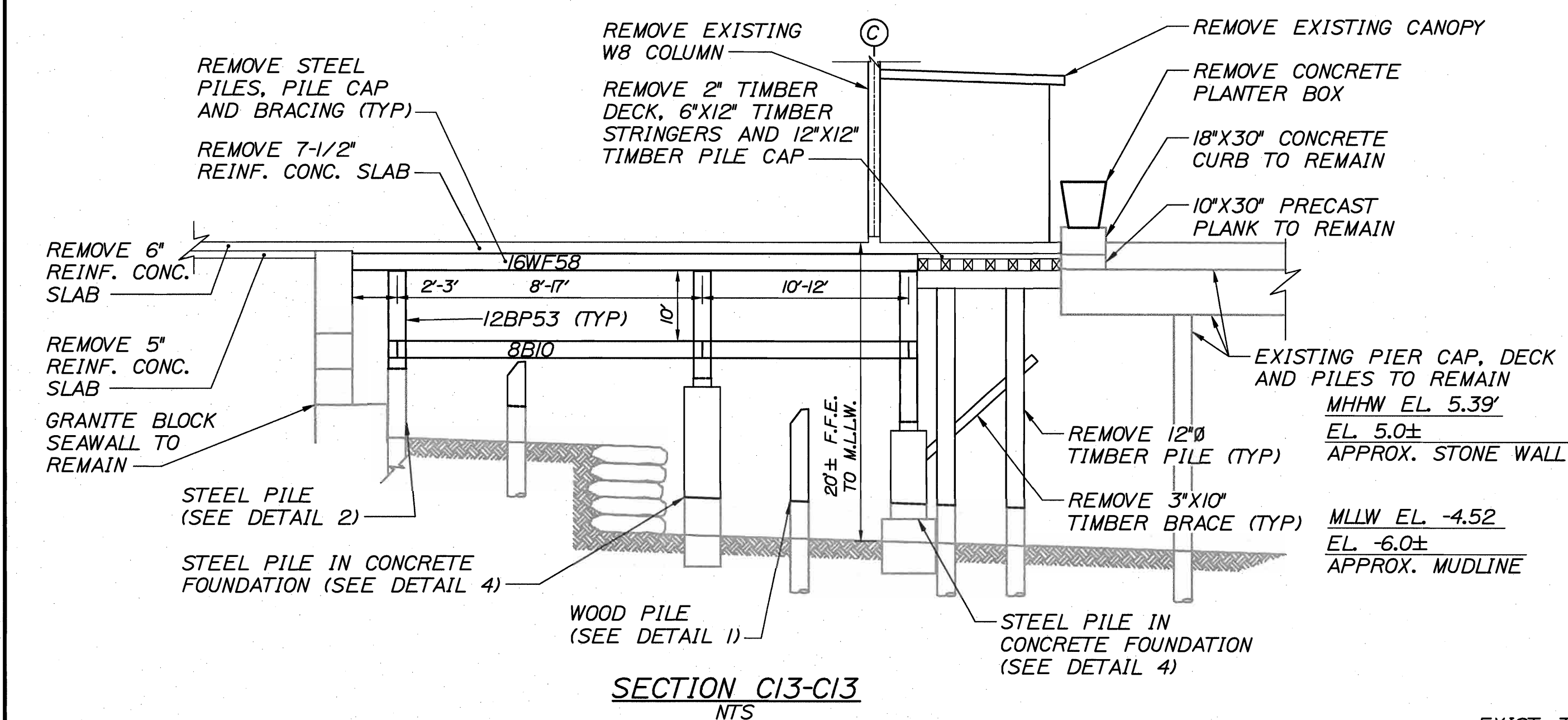
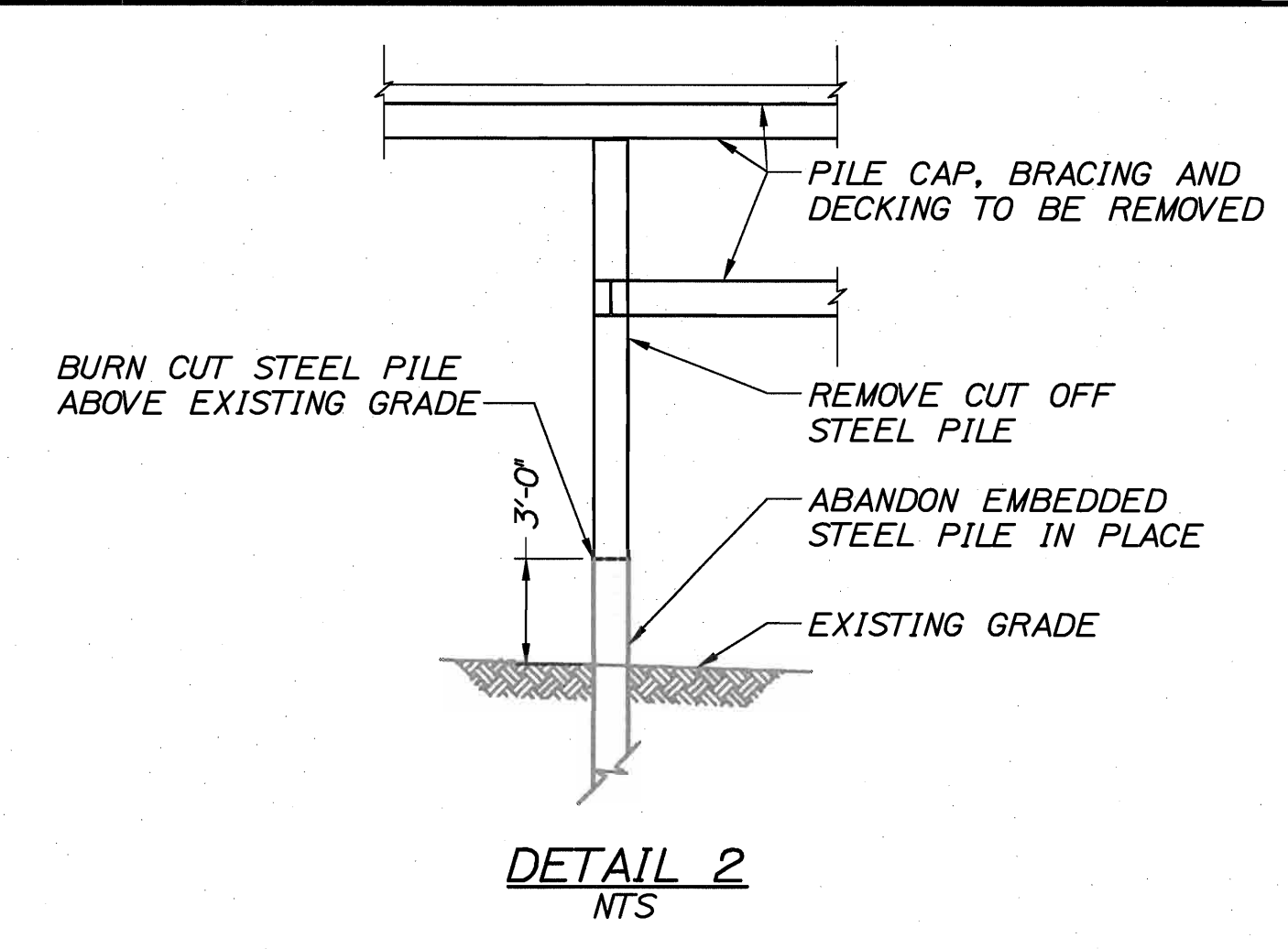
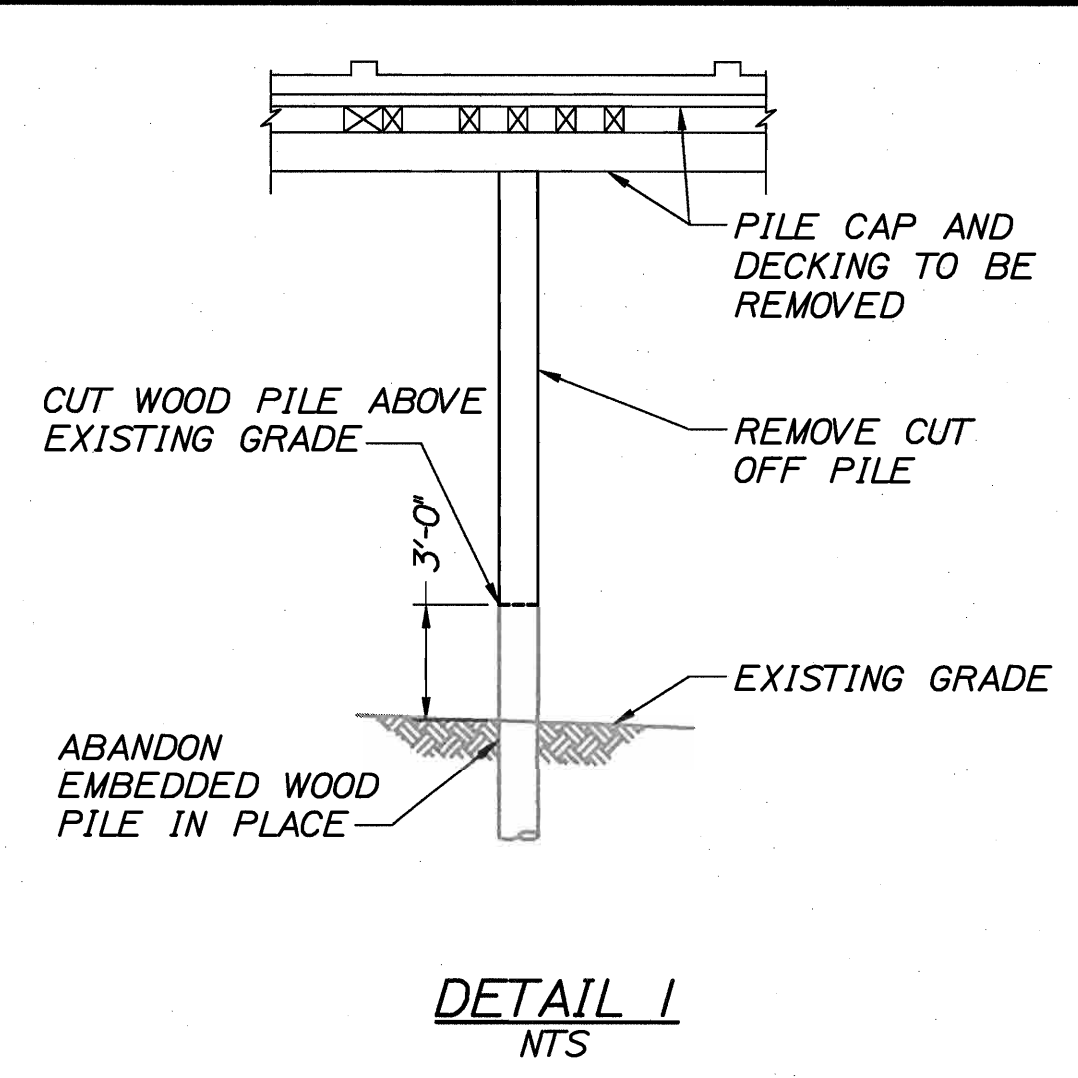
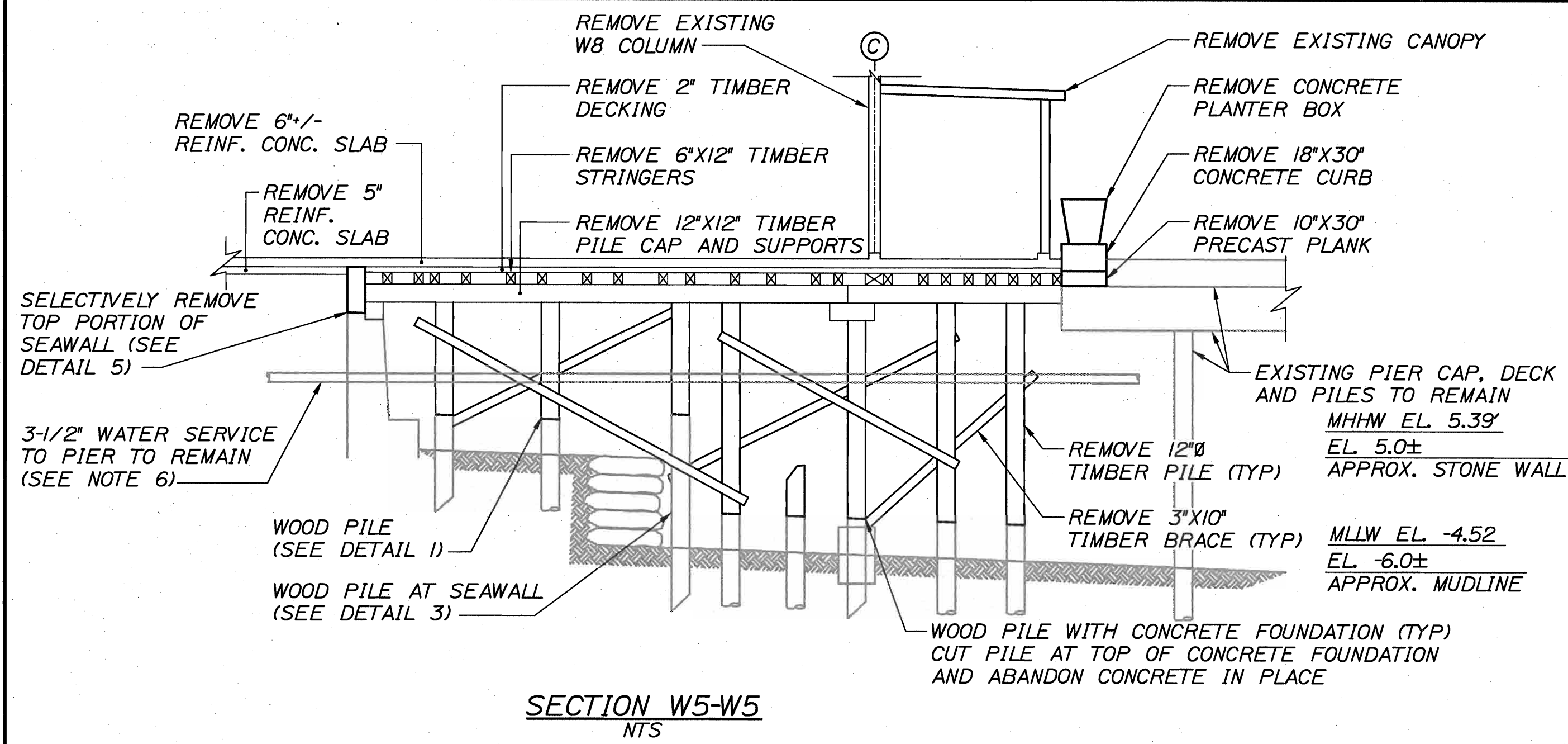


PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	HME	CHECKED-REVIEWED	CAH
DESIGN-2-DETAILED	-	DESIGN-3-DETAILED	-
REVISIONS 1	-	REVISIONS 2	-
REVISIONS 3	-	REVISIONS 4	-
FIELD CHANGES	-	DATE	3/24/11

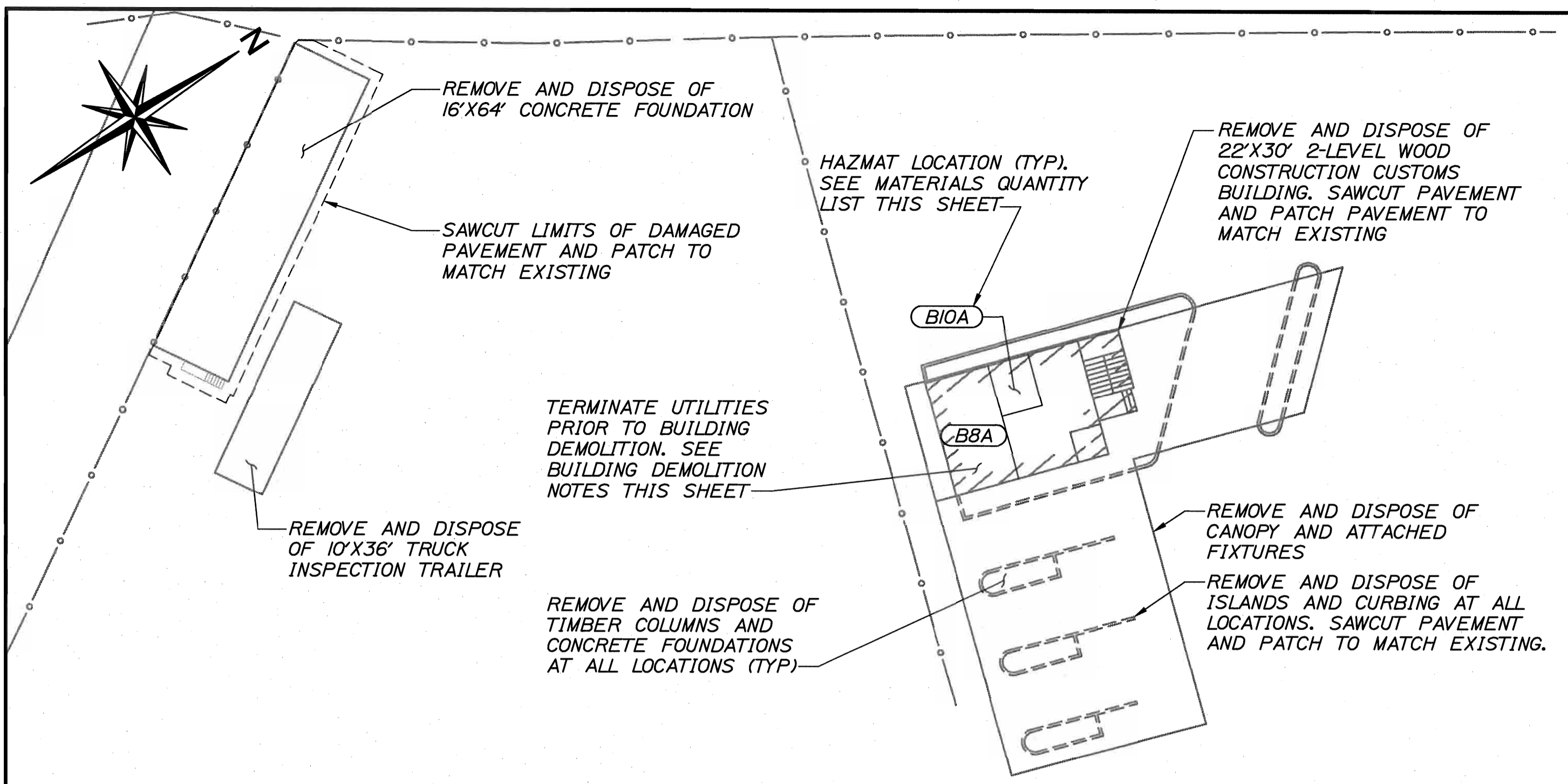
PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
TERMINAL BUILDING DEMOLITION DETAILS II

SHEET NUMBER

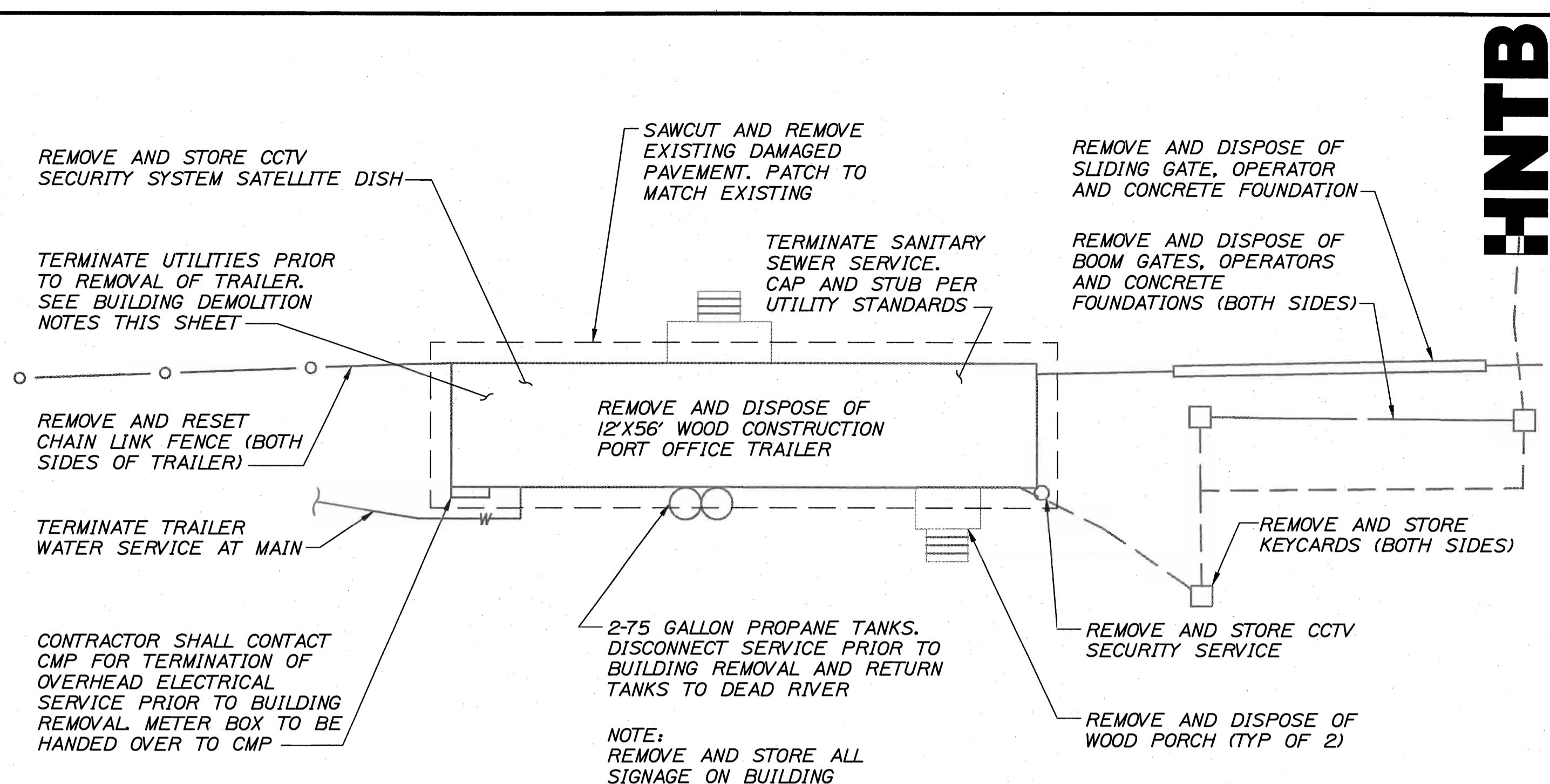
C14



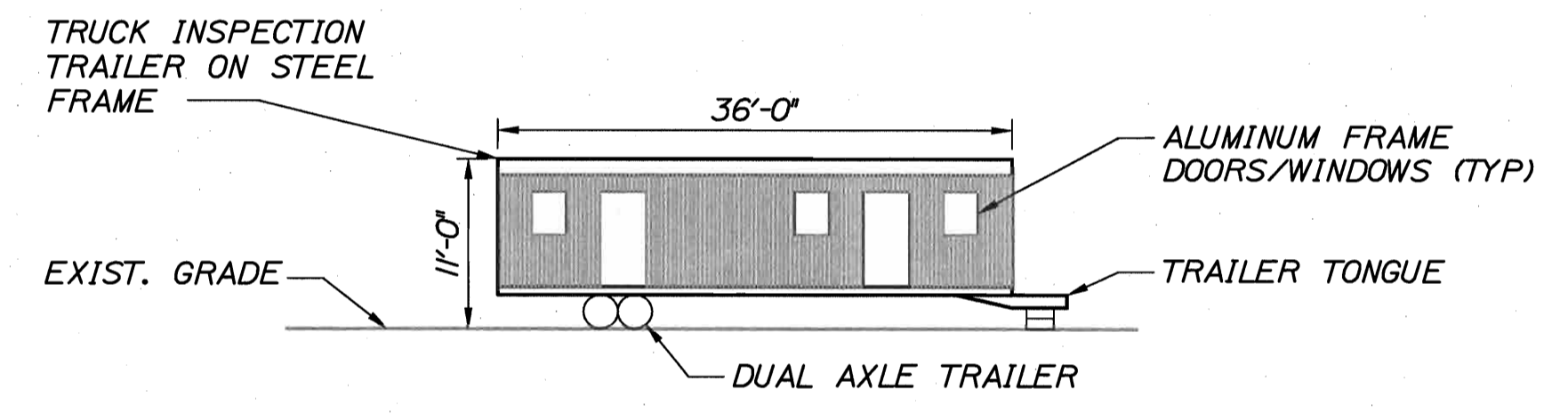
- DEMOLITION NOTES:**
1. ALL TIMBER AND STEEL PILES ENCOUNTERED SHALL BE CUT OFF APPROXIMATELY 3' ABOVE MUD LINE AND REMAINING EMBEDDED PORTION MAY BE ABANDONED IN PLACE. THERE ARE AN ESTIMATED 70 TIMBER PILES AND 45 STEEL PILES.
 2. CONTRACTOR MAY BE REQUIRED TO REMOVE TIMBER PILES COMPLETELY WHERE CONFLICT WITH FUTURE PILES OCCURS. OCCURRENCE IS ESTIMATED TO BE AT 5 LOCATIONS.
 3. CONCRETE PILE FOUNDATIONS TO BE CUT AND REMOVED 3' ABOVE GRADE AND REMAINING CONCRETE FOUNDATION MAY BE ABANDONED IN PLACE.
 4. IN LOCATIONS WHERE PILES ARE EMBEDDED WITHIN THE CONCRETE SEAWALL CUT PILE AS CLOSE TO CONCRETE AS POSSIBLE.
 5. IN LOCATIONS WHERE PILES ARE LOCATED AT FACE OF STONE SEAWALL PILES SHALL BE CUT 3' ABOVE TOP OF FOOTING ELEVATION.
 6. 3-1/2" WATER SERVICE TO PIER TO REMAIN IN SERVICE. SUPPORT PIPE WITH TEMPORARY BRACING TO THE SATISFACTION OF THE RESIDENT.



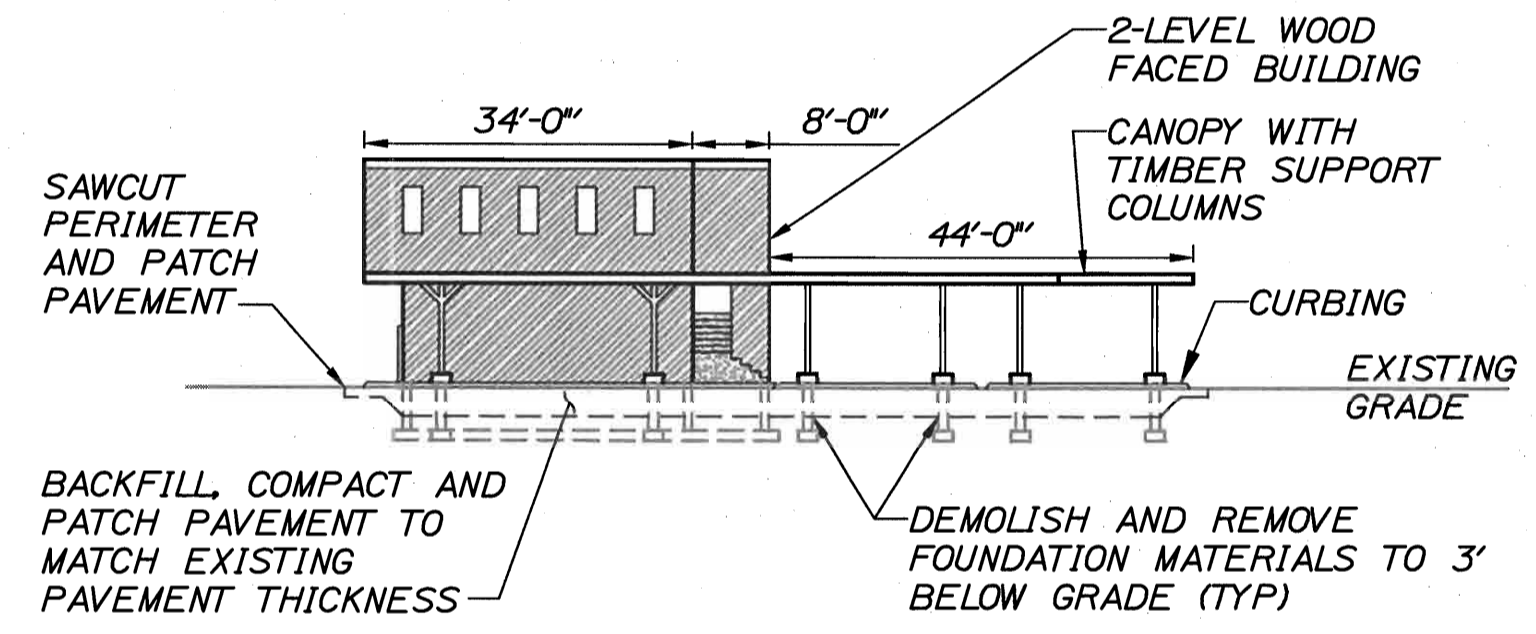
U.S. CUSTOMS BUILDING DEMOLITION PLAN
SCALE: 1"=20'-0"
10 0 20 40-FT



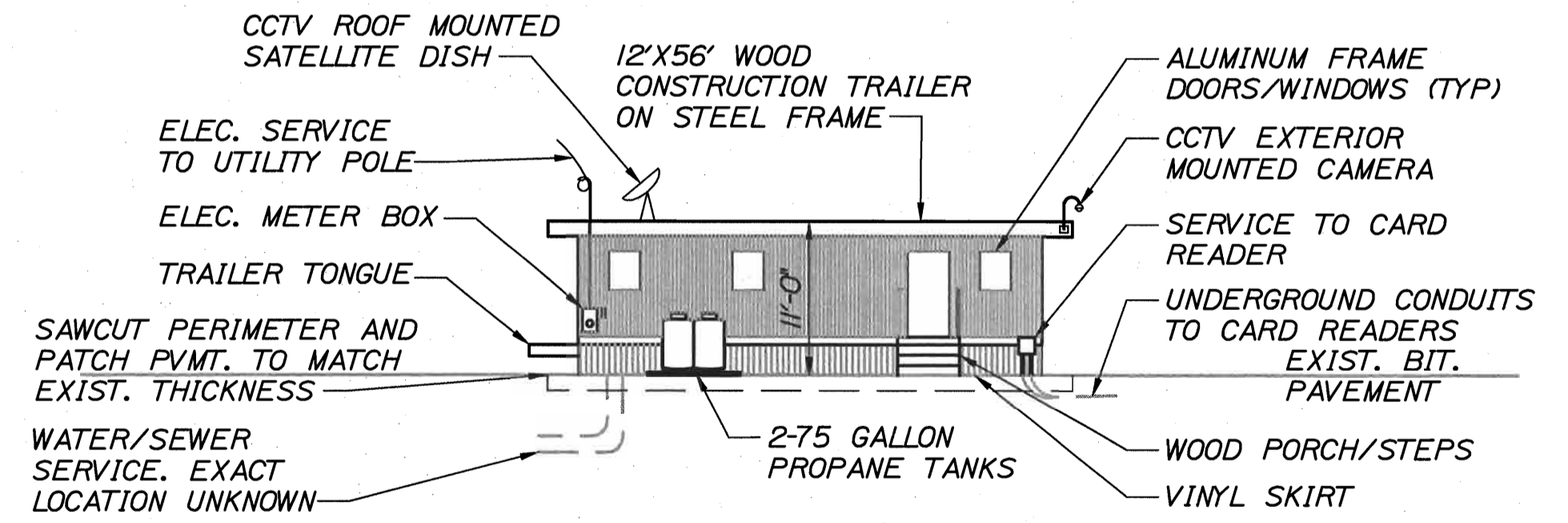
PORT OFFICE TRAILER DEMOLITION PLAN
SCALE: 1"=10'-0"
5 0 10 20-FT



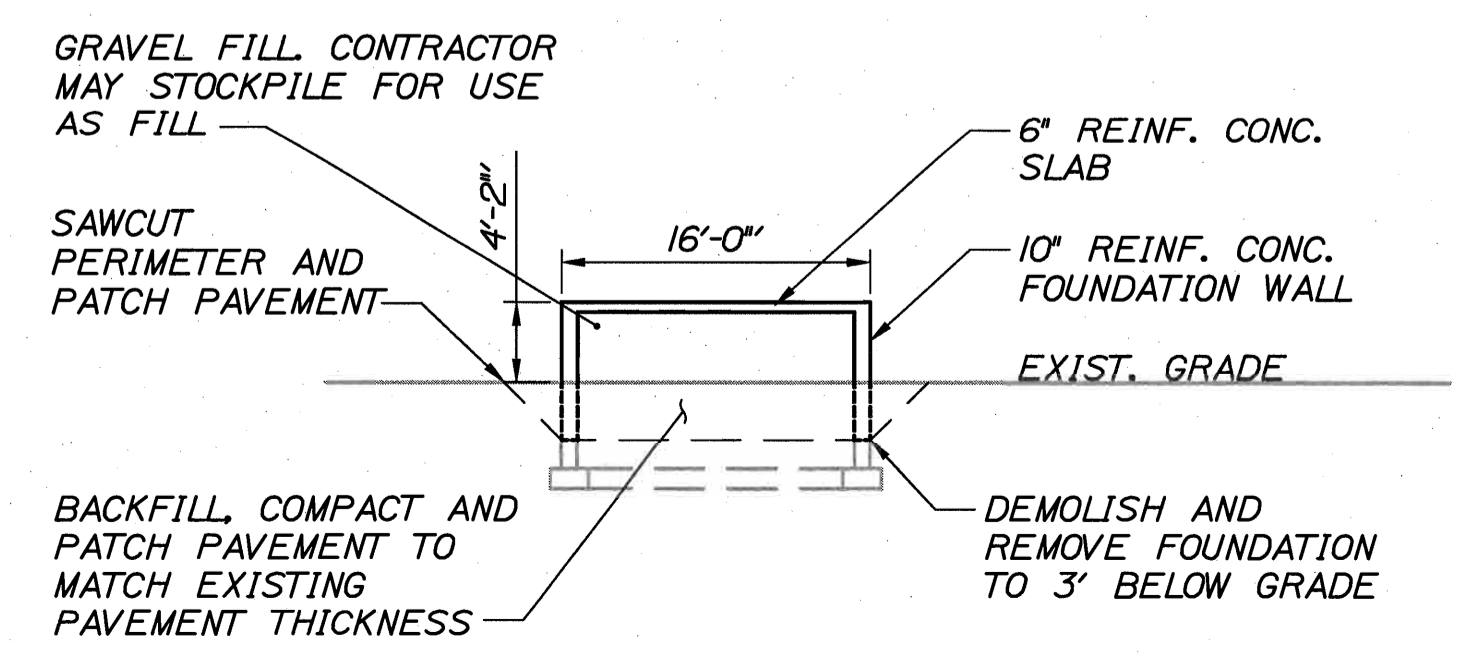
TRUCK INSPECTION TRAILER ELEVATION
SCALE: 1"=10'-0"



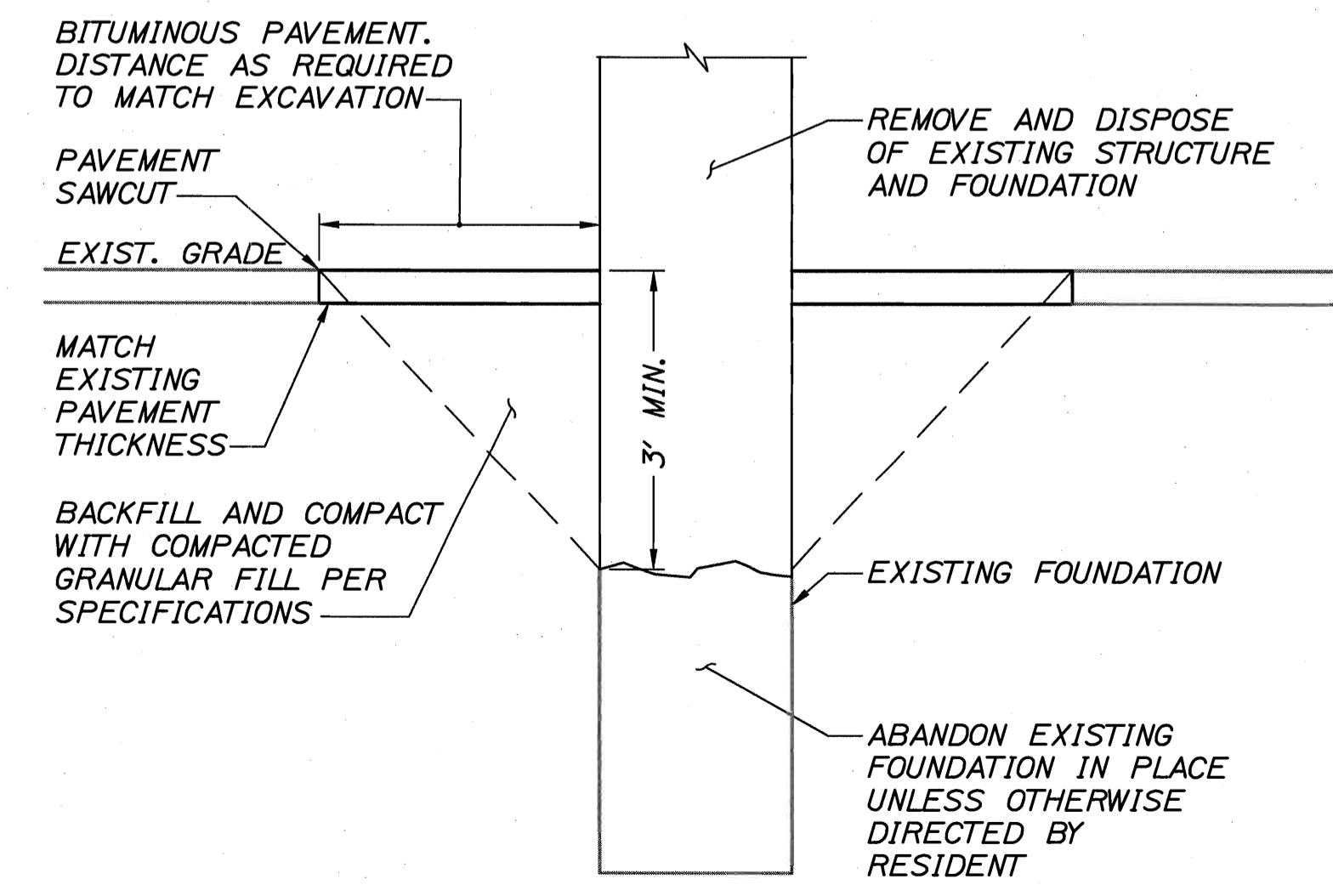
US CUSTOMS BUILDING ELEVATION
SCALE: 1"=20'-0"



PORT OFFICE TRAILER ELEVATION
SCALE: 1"=10'-0"



CONCRETE FOUNDATION SECTION
SCALE: 1"=10'-0"



PAVEMENT PATCH DETAIL
NTS

HAZARDOUS MATERIAL QUANTITY LIST:

SAMPLE	MATERIALS
BBA	ASBESTOS VINYL FLOOR TILE 275-SF
BIOA	ASBESTOS VINYL FLOOR TILE 80-SF

BUILDING DEMOLITION NOTES:

1. CONTRACTOR SHALL CONTACT CENTRAL MAINE POWER TO DISCONNECT POWER SERVICE PRIOR TO DEMOLITION AND REMOVAL OF PORT OFFICE TRAILER AND U.S. CUSTOMS BUILDING. METERS AND OTHER UTILITY OWNED ITEMS SHALL BE TURNED OVER TO CENTRAL MAINE POWER.
2. THE EXISTING FACILITY-WIDE SECURITY SYSTEM INCLUDING SATELLITE DISH AND CCTV SECURITY COMPONENTS MUST REMAIN ONLINE AT ALL TIMES. RELOCATION OF THE NEW SECURITY MONITORING SYSTEM MUST BE COMPLETE AND FULLY OPERATIONAL PRIOR TO REMOVAL OF THE PORT OFFICE TRAILER. CONTRACTOR TO COORDINATE WITH GALAXY INTEGRATED TECHNOLOGIES PRIOR TO REMOVAL.
3. DEMOLITION OF THE PORT OFFICE TRAILER TO COMMENCE UPON OWNER'S ACCEPTANCE OF THE NEW PORT OFFICE BUILDING AND RELOCATION OF ASSOCIATED UTILITIES, SECURITY SYSTEM AND ACCESS CONTROL SYSTEMS.
4. ALL EXISTING FOUNDATIONS UNLESS OTHERWISE NOTED SHALL BE REMOVED TO A DEPTH OF 3-FT BELOW PROPOSED GRADES AND SHALL BE BACKFILLED WITH GRAVEL BORROW AND COMPACTED AS OUTLINED IN THE SPECIFICATIONS.
5. ELECTRICAL CONTROLS FOR A SANITARY SEWER PUMP STATION ARE LOCATED WITHIN THE U.S. CUSTOMS BUILDING AND MUST REMAIN OPERATIONAL UNTIL THE NEW MAINTENANCE BUILDING GRAVITY SEWER SERVICE IS OPERATIONAL.
6. TERMINATION OF WATER SERVICES AT THE U.S. CUSTOMS BUILDING AND PORT OFFICE TRAILER SHALL BE DONE IN ACCORDANCE TO PORTLAND WATER DISTRICT STANDARDS.
7. TERMINATION OF SANITARY SERVICES AT THE U.S. CUSTOMS BUILDING AND PORT OFFICE TRAILER SHALL BE DONE IN ACCORDANCE TO THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC WORKS STANDARD REQUIREMENTS.
8. CONTRACTOR TO VERIFY NO UNDERGROUND GAS SERVICES ARE PRESENT AT THE U.S. CUSTOMS BUILDING AND PORT OFFICE TRAILER PRIOR TO DEMOLITION AND REMOVAL OF STRUCTURES. IF SERVICES ARE PRESENT, CONTRACTOR SHALL PROPERLY TERMINATE SERVICES IN ACCORDANCE WITH NORTHERN UTILITIES GENERAL STANDARDS.

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00

ROLAND A. LAVALLÉE
No. 6462
P.E. NUMBER
3/25/11
DATE

DATE	BY	PROJ. MGR.	CHECKED	DESIGNED	REVISIONS	REVISIONS	REVISIONS	FIELD CHANGES
3/25/11	HME	CRAIG R. MORIN	HME	CAH	1	2	3	4

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
**MISCELLANEOUS
DEMOLITION DETAILS**

SHEET NUMBER

C15

GENERAL INFORMATION

PROJECT NAME: INTERNATIONAL MARINE TERMINAL

SITE INFORMATION

LAND USE: MULTI-USE COMMERCIAL
 ZONE: WPDZ WATERFRONT PORT DEVELOPMENT ZONE

CITY STANDARDS	REQUIRED	PROPOSED
MINIMUM LOT SIZE:	NONE	N/A
MINIMUM STREET FRONTAGE:	NONE	N/A
MINIMUM LOT LENGTH:	NONE	N/A
MINIMUM LOT WIDTH:	NONE	N/A
MAXIMUM FRONT YARD:	NONE	N/A
MINIMUM REAR YARD:	NONE	N/A
MINIMUM SIDE YARD:	NONE	N/A
MINIMUM PIER LINE SETBACK:	5 FT	N/A
MAXIMUM BUILDING HEIGHT:	45 FT	N/A

PARKING

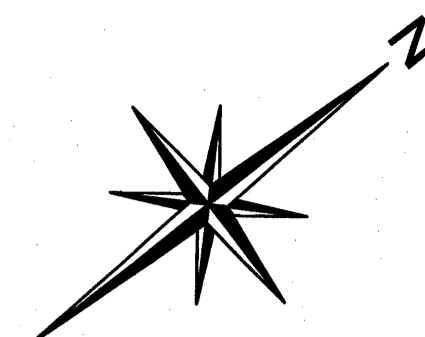
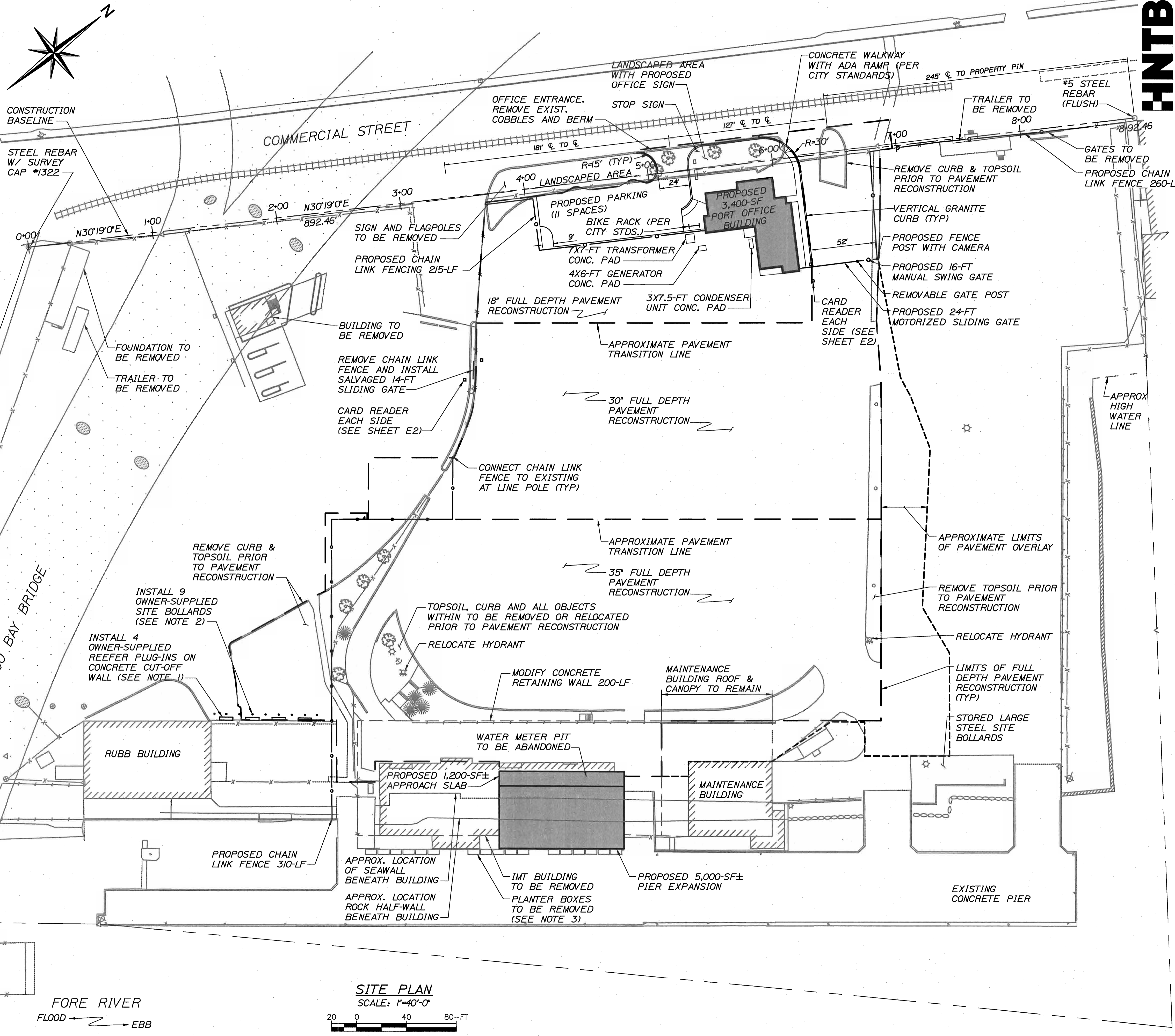
PARKING STANDARDS	REQUIRED	PROPOSED
PARKING SPACES:	9 SPACES	11 SPACES
PARKING SPACE SIZES:	9 FT X 18 FT (12 SPACES)	

AREAS

	REQUIRED	PROPOSED
MAXIMUM IMPERVIOUS SURFACE RATIO:	100%	100%

NOTES:

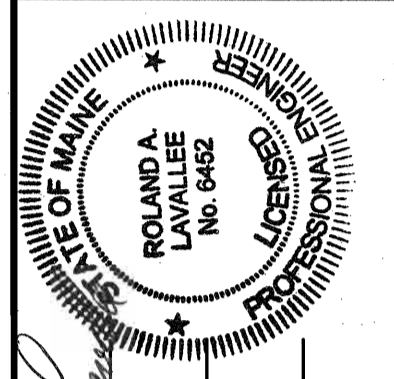
- REEFER PLUG-INS ARE CURRENTLY STORED IN THE RUBB BUILDING. SUPPORT POSTS SHALL BE MODIFIED TO ALLOW FOR RE-INSTALLATION. SEE SHEET C25.
- LARGE STEEL SITE BOLLARDS ARE CURRENTLY STORED AT THE NORTH END OF THE CONCRETE PIER.
- 18-INDIVIDUAL CONCRETE PLANTER BOXES SHALL BE REMOVED AND DISPOSED OF.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SECURE SITE AT ALL TIMES. THE PUBLIC SHALL NOT BE PERMITTED ON THE SITE AND CONTRACTOR ACCESS GATES SHALL BE CLOSED AT ALL TIMES AND LOCKED DURING NON-WORKING HOURS.
- FIRE HYDRANTS SHALL BE PAINTED RED AND INSTALLED ACCORDING TO CHAPTER 10 OF CITY CODE AND PORTLAND WATER DISTRICT STANDARDS.
- SEE SHEET C23 - ARCHITECTURAL PLAN FOR THE OFFICE BUILDING LAYOUT POINTS.
- FOR LAYOUT OF SITE UTILITIES, SEE SHEET C18. FOR LAYOUT OF SITE ELECTRICAL, SEE SHEETS E2 AND E3.



SITE PLAN
 SCALE: 1"=40'-0"
 20 0 40 80-FT

HNTB

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00



DATE	BY	REVISION
3/25/11	HME	DESIGN-DETAILED
3/25/11	RAL	CHECKED-REVIEWED
		DESIGN-2-DETAILED
		DESIGN-3-DETAILED
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

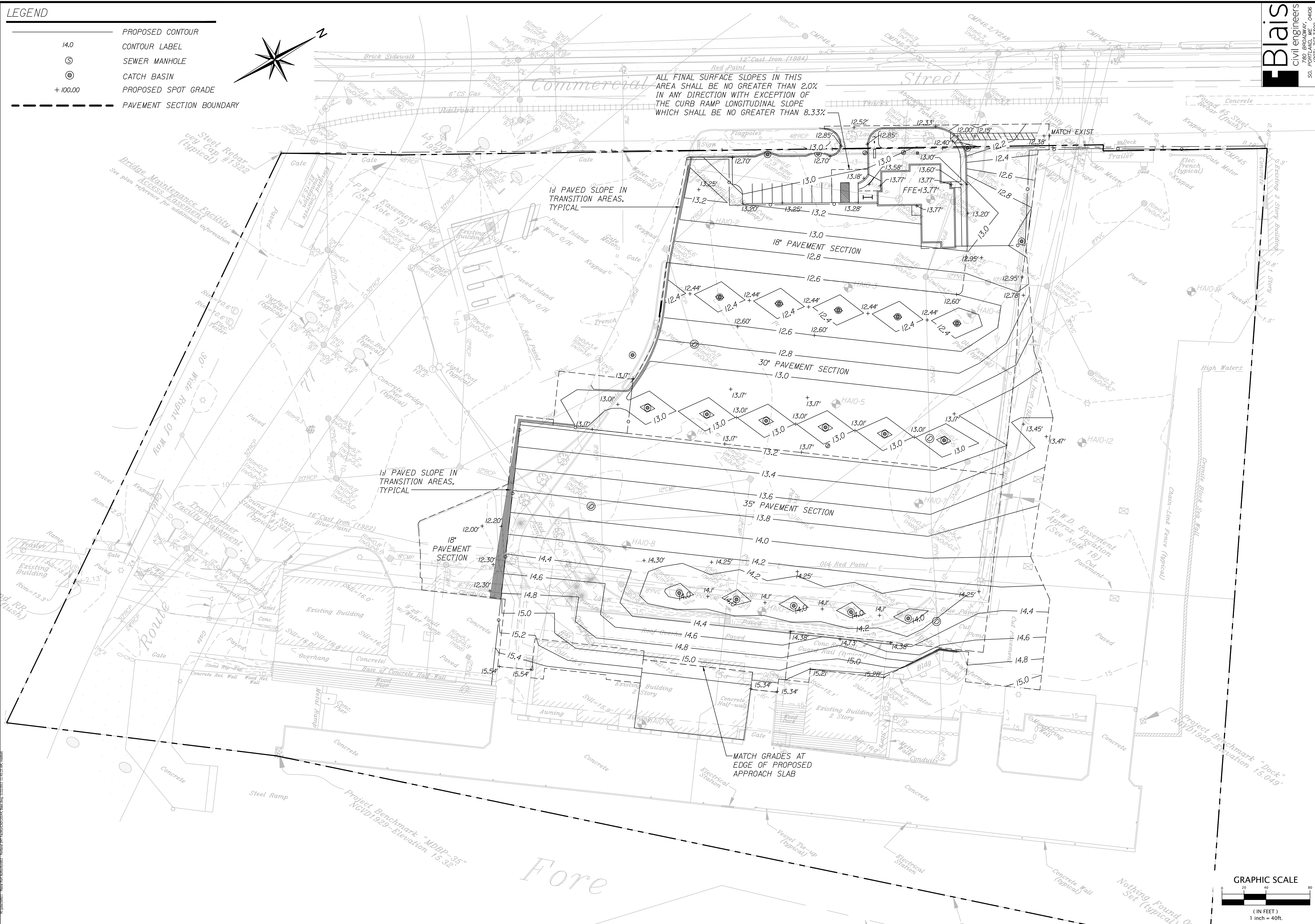
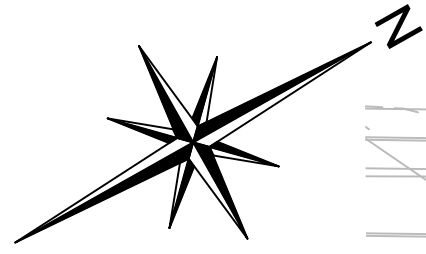
PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
SITE PLAN

SHEET NUMBER

C16

LEGEND

- 14.0 — PROPOSED CONTOUR
- CONTOUR LABEL
- ⊙ SEWER MANHOLE
- ⊙ CATCH BASIN
- +100.00 PROPOSED SPOT GRADE
- - - - - PAVEMENT SECTION BOUNDARY



Blais
civil engineers
1400 W. Main Street
St. Paul, ME 04106
(207) 767-7300

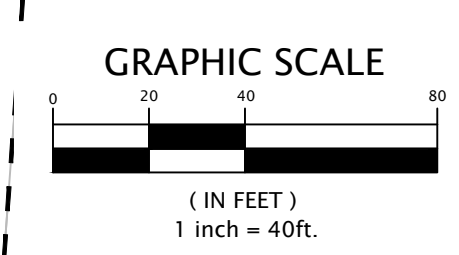
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00

STEVE G. BLAIS
NO. 11064
P.E. NUMBER
2/24/11
DATE

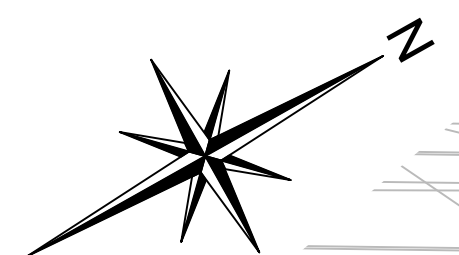
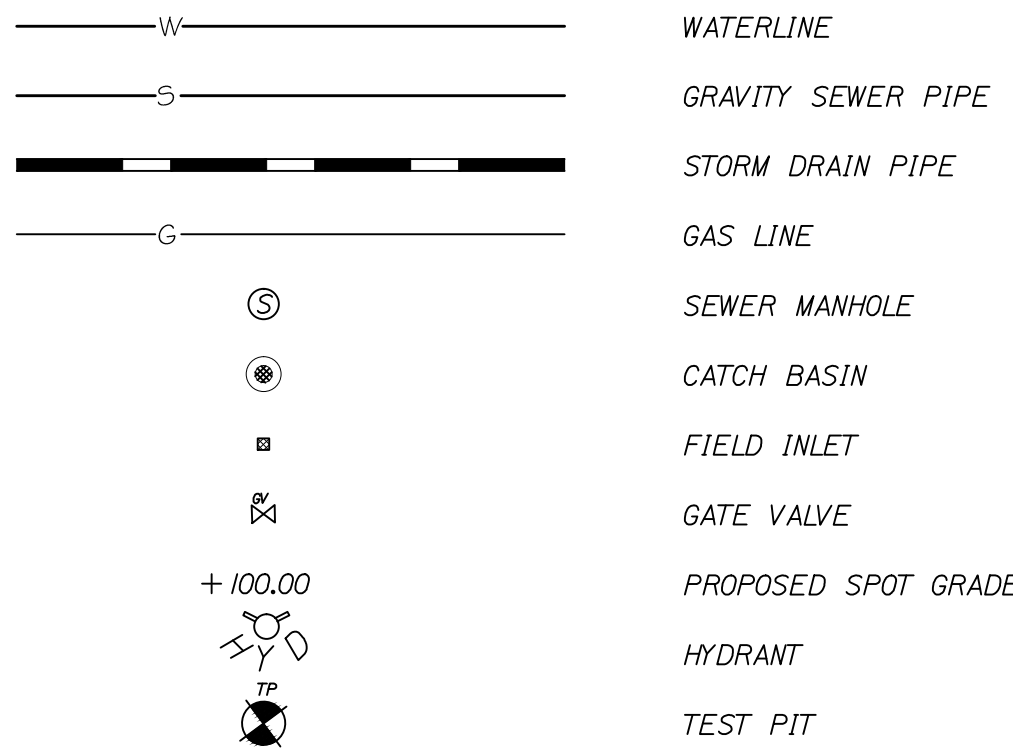
PROJ. MANAGER	BY	DATE
CRAIG R. MORIN	JAV-SGB	3/25/11
DESIGN-DETAILED	SGB	3/25/11
CHECKED-REVIEWED	SGB	
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
SITE GRADING PLAN

SHEET NUMBER
C17
20 OF 71



LEGEND



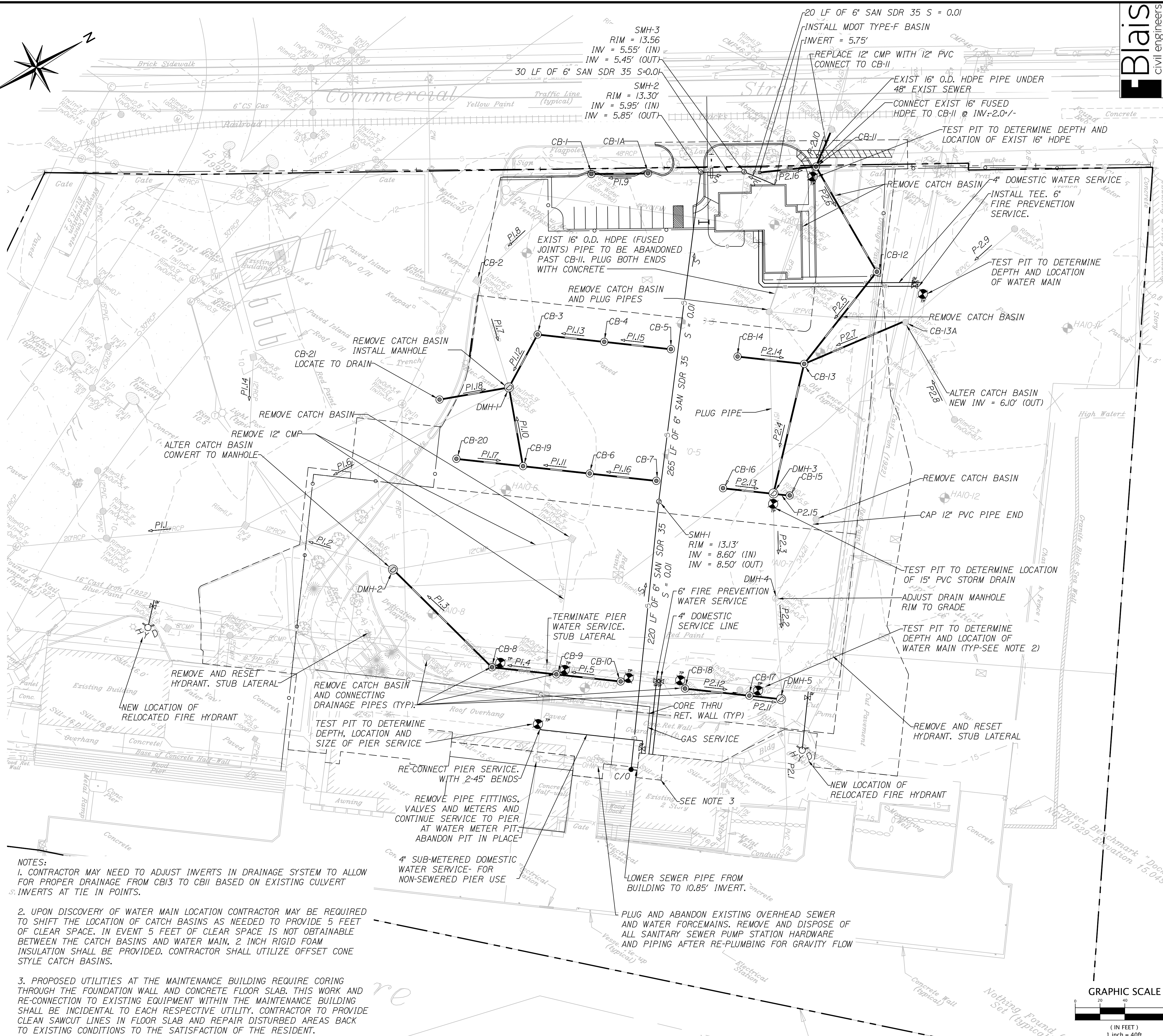
DRAINAGE STRUCTURE SCHEDULE

STRUCTURE	TYPE	RIM	INV IN	INV OUT
CB-1	4" (NEW)	12.00	7.30 (P1.9)	MATCH EX (P1.8)
CB-1A	4" (NEW)	12.55	N/A	7.58 (P1.9)
CB-2	4" (EXIST)	10.10	MATCH EX (P1.8)	MATCH EX (P1.7)
CB-3	4" (NEW)	12.25	6.90 (P1.13)	6.60 (P1.2)
CB-4	4" (NEW)	12.25	7.54 (P1.15)	7.45 (P1.3)
CB-5	4" (NEW)	12.25	N/A	7.82 (P1.15)
CB-6	4" (NEW)	12.75	7.00 (P1.16)	6.90 (P1.11)
CB-7	4" (NEW)	12.75	N/A	7.55 (P1.6)
CB-8	4" (NEW)	13.85	7.80 (P1.4)	7.61 (P1.3)
CB-9	4" (NEW)	13.85	8.60 (P1.5)	8.35 (P1.4)
CB-10	4" (NEW)	13.85	N/A	9.15 (P1.5)
DMH-1	6" (NEW)	12.80	MATCH EX (P1.7)	MATCH EX (P1.6)
			5.90 (P1.10)	
			6.10 (P1.12)	
			6.90 (P1.18)	
			6.45 (P1.11)	
			8.55 (P1.17)	
CB-19	4" (NEW)	12.75	N/A	6.35 (P1.10)
CB-20	4" (NEW)	12.75	N/A	8.75 (P1.7)
CB-21	4" (NEW)	10.40	N/A	7.40 (P1.8)
DMH-2	(EXIST)	13.85	6.46 (P1.3)	MATCH EX (P1.2)
CB-11	4" (NEW)	11.95	MATCH EX (P2.10)	MATCH EX (P2.6)
			MATCH EX (P2.10A)	
			8.60 (P2.16)	
CB-12	4" (NEW)	12.75	4.20 (P2.6)	3.98 (P2.5)
CB-13	6" (NEW)	12.25	3.50 (P2.5)	3.30 (P2.4)
			6.35 (P2.7)	
			8.00 (P2.14)	
CB-13A	(EXIST)	12.20	MATCH EX (P2.8)	7.10/- (P2.7)
CB-14	4" (NEW)	12.25	N/A	8.50 (P2.14)
DMH-3	4" (NEW)	12.75	8.50 (P2.13)	MATCH EX (P2.4)
			8.80 (P2.15)	
			MATCH EX (P2.4)	
CB-15	4" (NEW)	12.75	N/A	9.00 (P2.15)
CB-16	4" (NEW)	12.75	N/A	9.00 (P2.13)
DMH-4	(EXIST)	13.75	MATCH EX (P2.3)	MATCH EX (P2.2)
DMH-5	4" (NEW)	13.85	MATCH EX (P2.2)	MATCH EX (P2.1)
			9.10 (P2.11)	
CB-17	4" (NEW)	13.85	9.50 (P2.12)	9.40 (P2.11)
CB-18	4" (NEW)	13.85	N/A	10.00 (P2.12)
FI-1	2" SQ. (NEW)	12.00	N/A	9.00 (P2.16)

DRAINAGE PIPE SCHEDULE

SYSTEM NO. 1				
PIPE #	NEW/EXIST	SIZE/TYPE	LENGTH (LF)	SLOPE
P1.1	EXIST	20" EXIST	109'	0.003
P1.2	EXIST	12" EXIST	120'	0.003
P1.3	NEW	12" PVC	105'	0.010
P1.4	NEW	12" PVC	46'	0.010
P1.5	NEW	12" PVC	46'	0.010
P1.6	EXIST	15" EXIST	236'	0.002
P1.7	EXIST	12" EXIST	86'	0.002
P1.8	EXIST	10" EXIST	122'	0.002
P1.9	NEW	12" PVC	40'	0.005
P1.10	NEW	12" PVC	58'	0.008
P1.11	NEW	12" PVC	48'	0.010
P1.12	NEW	12" PVC	42'	0.010
P1.13	NEW	12" PVC	48'	0.010
P1.14	EXIST	12" EXIST	132'	0.002
P1.15	NEW	12" PVC	48'	0.005
P1.16	NEW	12" PVC	48'	0.010
P1.17	NEW	12" PVC	48'	0.010
P1.18	NEW	12" PVC	51'	0.010

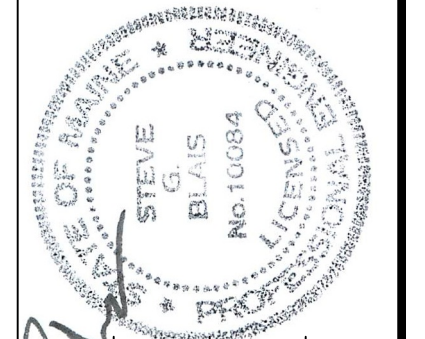
SYSTEM NO. 2				
PIPE #	NEW/EXIST	SIZE/TYPE	LENGTH (LF)	SLOPE
P2.1	EXIST	15" EXIST	122'	0.006
P2.2	EXIST	15" EXIST	90'	0.010
P2.3	EXIST	15" EXIST	81'	0.021
P2.4	NEW	15" PVC	101'	0.010
P2.5	NEW	15" PVC	89'	TBD
P2.6	NEW	15" PVC	92'	TBD
P2.7	NEW	12" PVC	83'	0.010
P2.8	EXIST	8" EXIST	84'	0.006
P2.9	EXIST	8" EXIST	112'	0.004
P2.10	EXIST	16" EXIST HDPE	40'	-0.004
P2.10A	NEW	12" PVC	30'	
P2.11	NEW	12" PVC	20'	0.012
P2.12	NEW	12" PVC	46'	0.010
P2.13	NEW	12" PVC	34'	0.013
P2.14	NEW	12" PVC	48'	0.010
P2.15	NEW	12" PVC	6'	0.013
P2.16	NEW	12" PVC	42'	0.010



NOTES:
 1. CONTRACTOR MAY NEED TO ADJUST INVERTS IN DRAINAGE SYSTEM TO ALLOW FOR PROPER DRAINAGE FROM CB13 TO CB11 BASED ON EXISTING CULVERT SLOPE AT TIE IN POINTS.
 2. UPON DISCOVERY OF WATER MAIN LOCATION CONTRACTOR MAY BE REQUIRED TO SHIFT THE LOCATION OF CATCH BASINS AS NEEDED TO PROVIDE 5 FEET OF CLEAR SPACE. IN EVENT 5 FEET OF CLEAR SPACE IS NOT OBTAINABLE BETWEEN THE CATCH BASINS AND WATER MAIN, 2 INCH RIGID FOAM INSULATION SHALL BE PROVIDED. CONTRACTOR SHALL UTILIZE OFFSET CONE STYLE CATCH BASINS.
 3. PROPOSED UTILITIES AT THE MAINTENANCE BUILDING REQUIRE CORING THROUGH THE FOUNDATION WALL AND CONCRETE FLOOR SLAB. THIS WORK AND RE-CONNECTION TO EXISTING EQUIPMENT WITHIN THE MAINTENANCE BUILDING SHALL BE INCIDENTAL TO EACH RESPECTIVE UTILITY. CONTRACTOR TO PROVIDE CLEAN SAWCUT LINES IN FLOOR SLAB AND REPAIR DISTURBED AREAS BACK TO EXISTING CONDITIONS TO THE SATISFACTION OF THE RESIDENT.



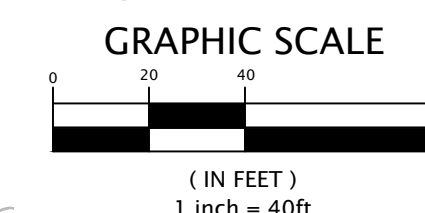
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 017820.00

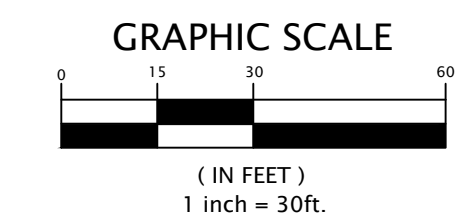
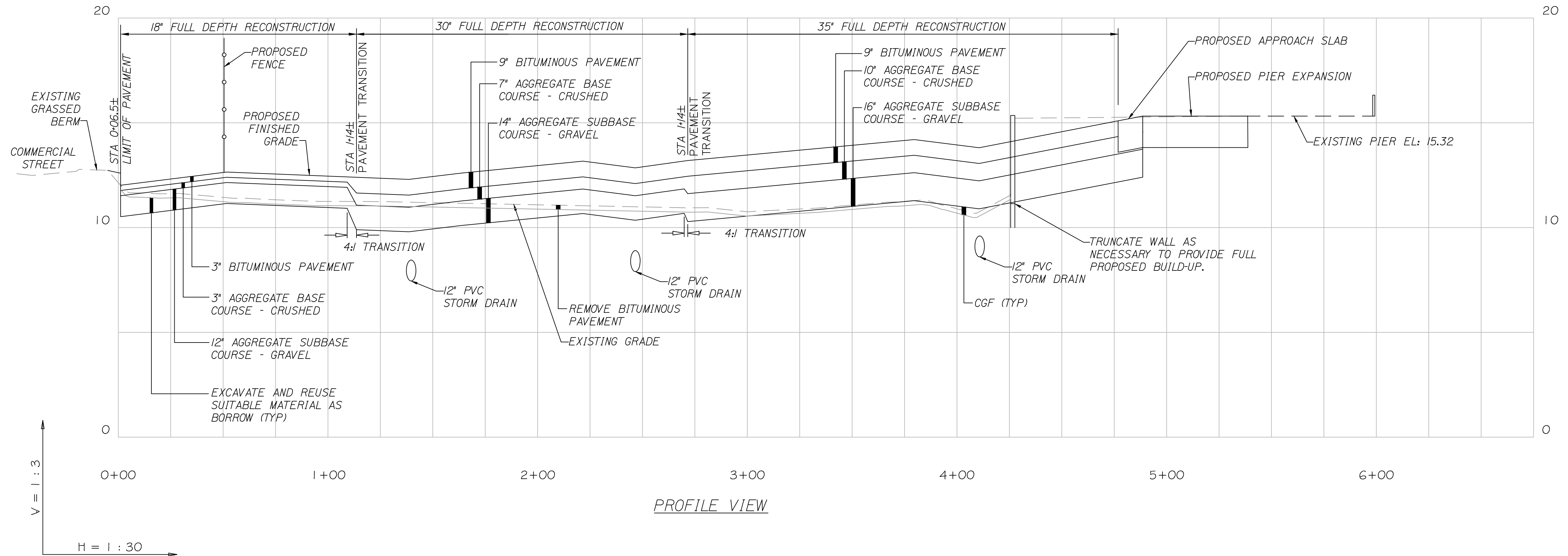
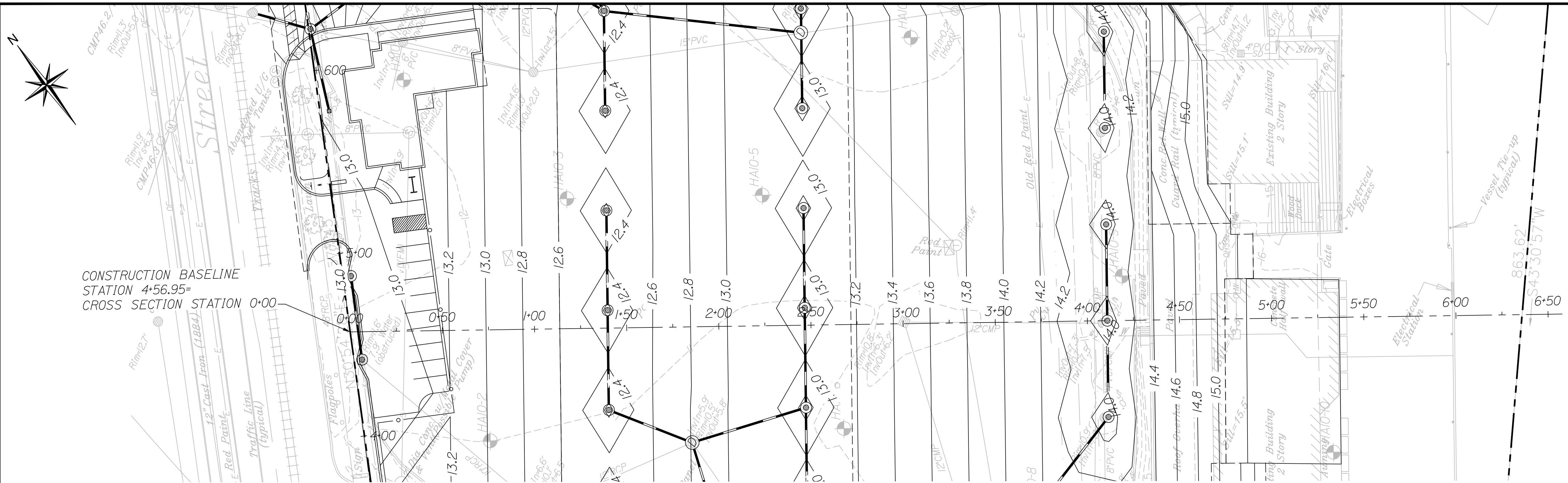


DATE	BY	REVISIONS
3/25/11	GRAIG R. MORIN	DESIGN-DETAILED
3/25/11	GRAIG R. MORIN	CHECKED-REVIEWED
		DESIGN-DETAILED
		DESIGN-DETAILED
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 SITE UTILITY PLAN

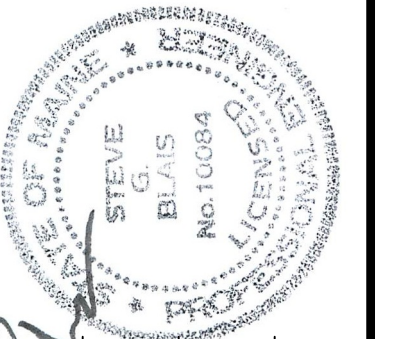
SHEET NUMBER
C18
 21 OF 71





Blais
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1000 Main Street
Portland, ME 04106
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN
017820.00



STEVE G. BLAIS
No. 10684
SIGNATURE
10084
P.E. NUMBER
3/24/11
DATE

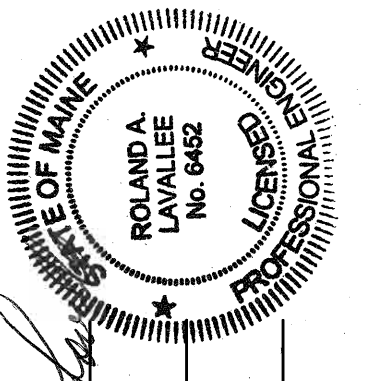
DATE	BY	PROJ. MANAGER	CRGAC	R. MORIN
3/25/11	JAV-SGB			
3/25/11	JAV-SGB			

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
CONCEPTUAL CROSS SECTION

SHEET NUMBER

C19

22 OF 71

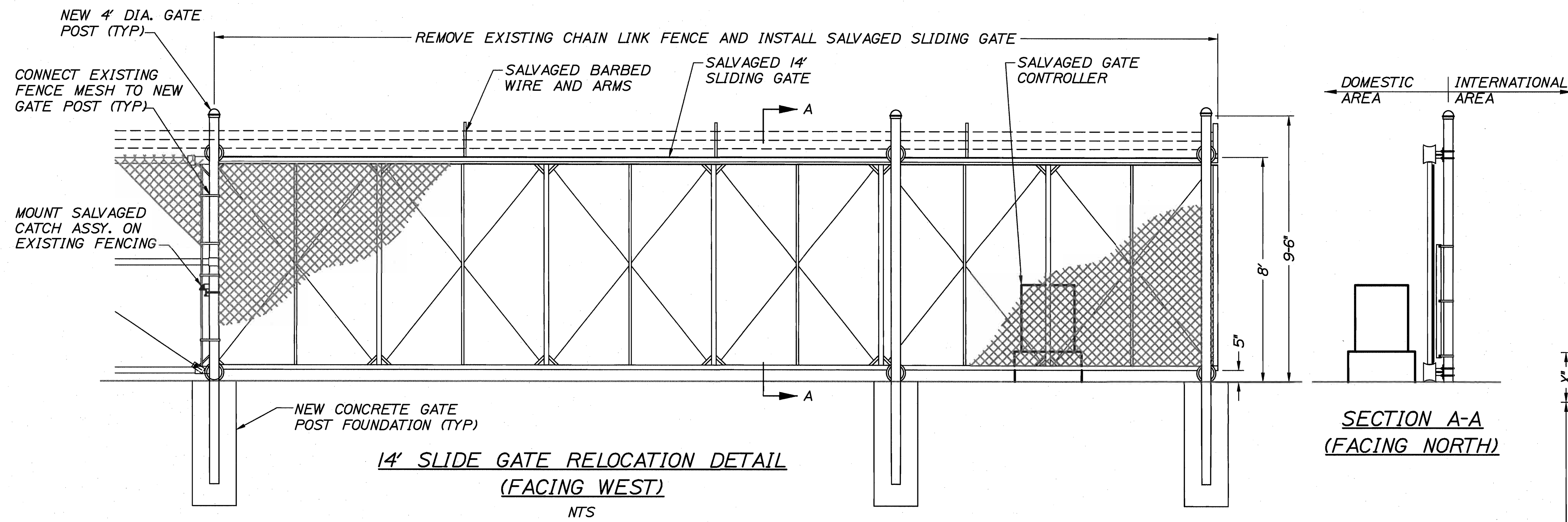


DATE: 3/25/11
SIGNATURE: [Signature]
P.E. NUMBER: 6452
DATE: 3/25/11

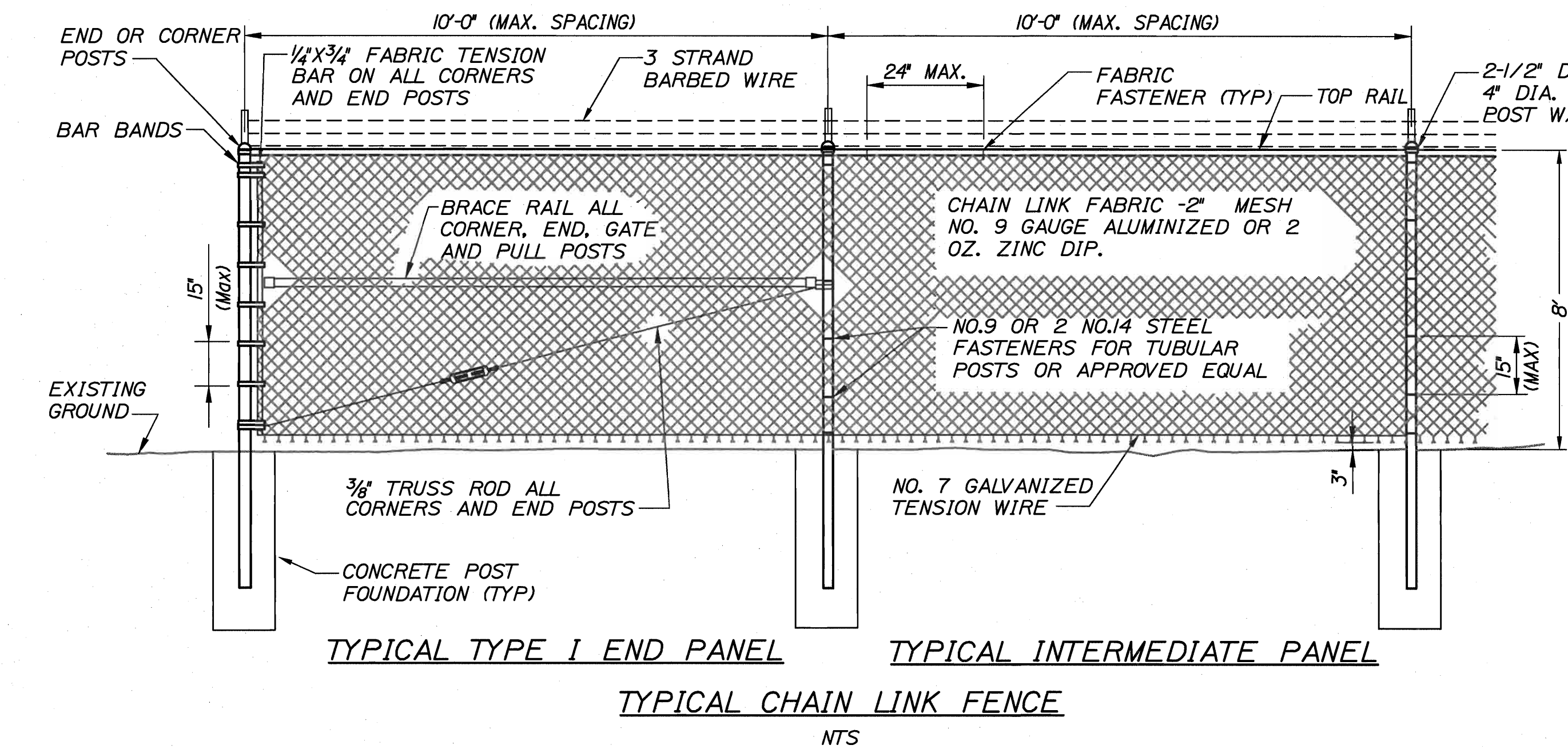
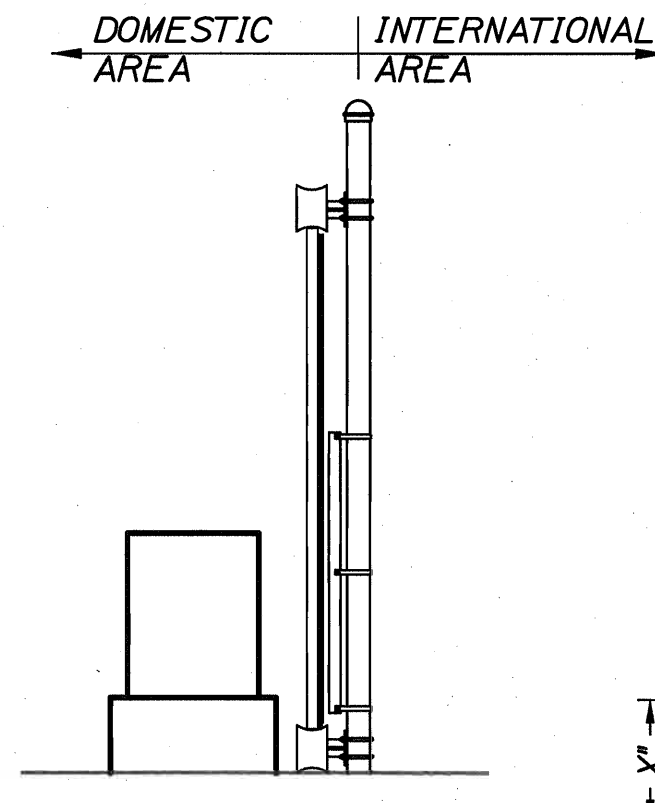
DATE	BY	DESCRIPTION
3/25/11	HME	DESIGN-DETAILED
3/25/11	RAJ	CHECKED-REVIEWED
		DESIGN-DETAILED2
		DESIGN-DETAILED3
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
FENCING DETAILS I

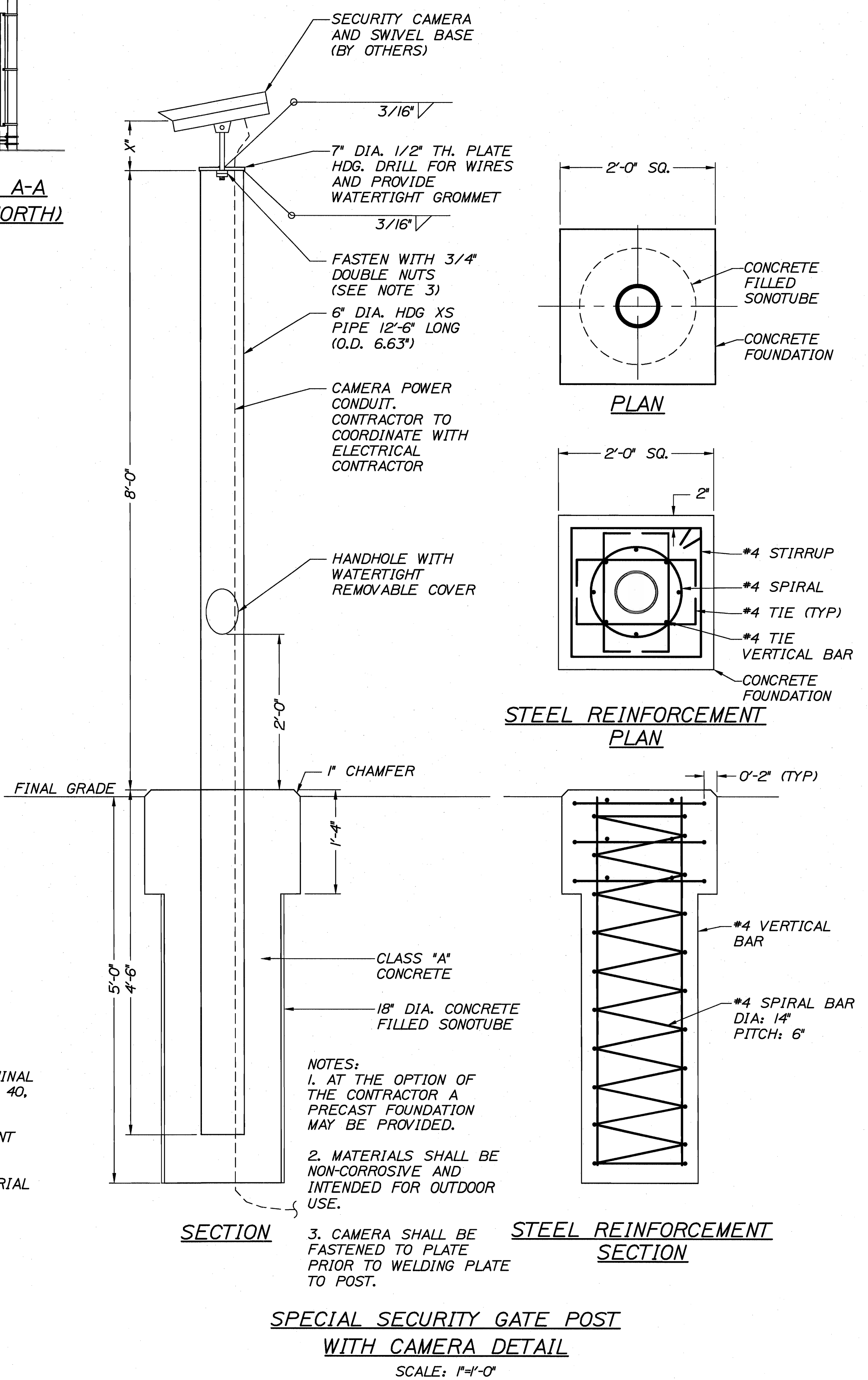
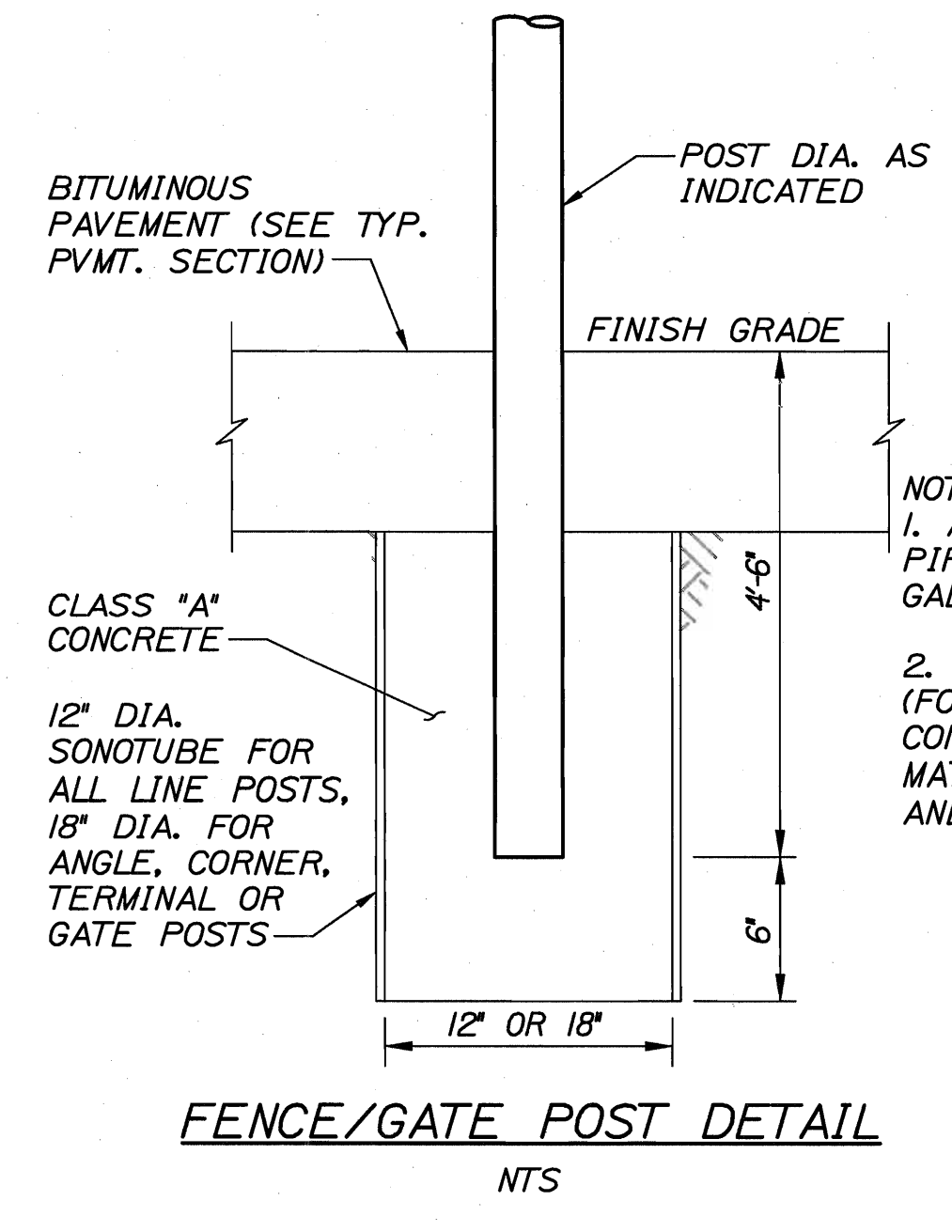
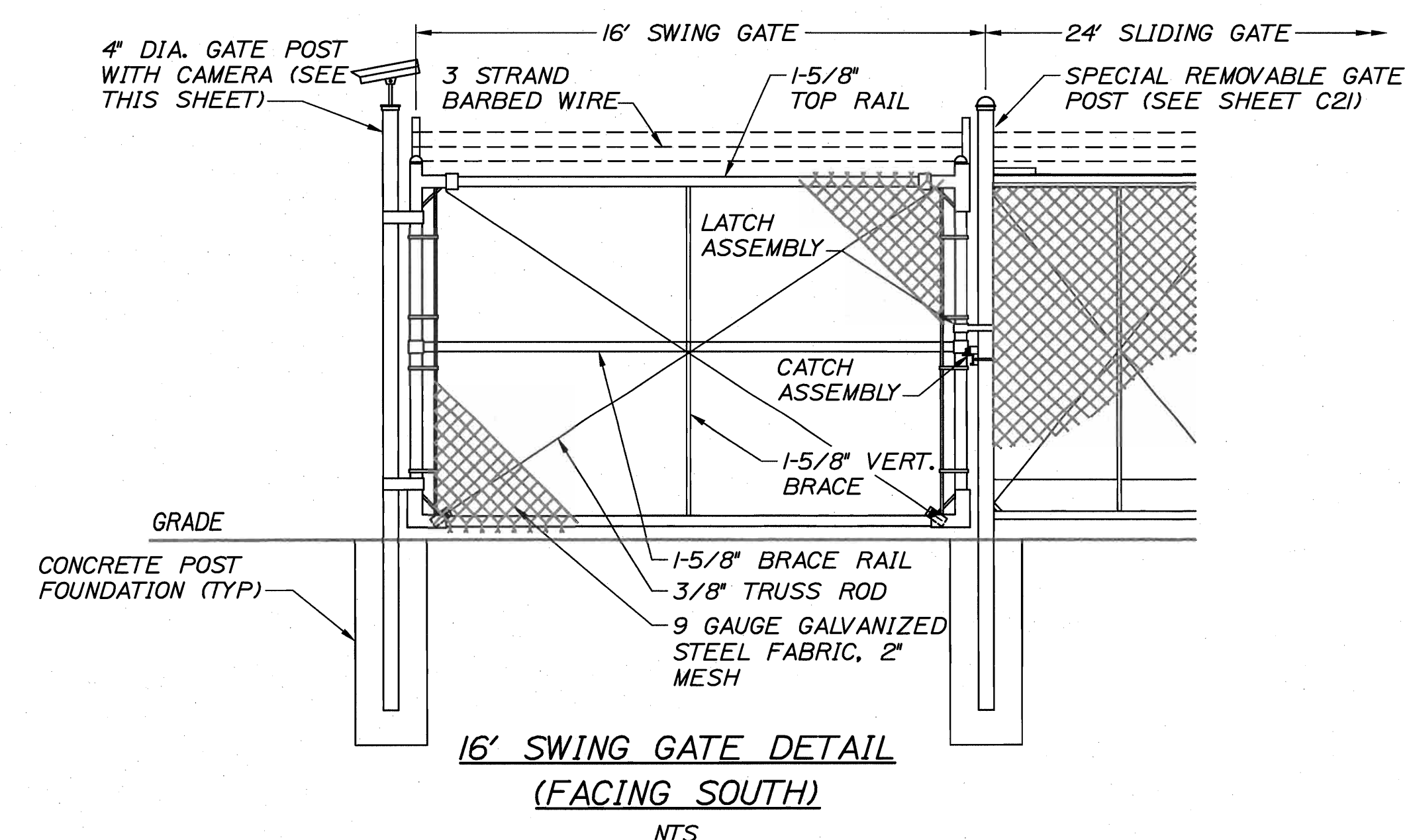
SHEET NUMBER
C20
23 OF 71



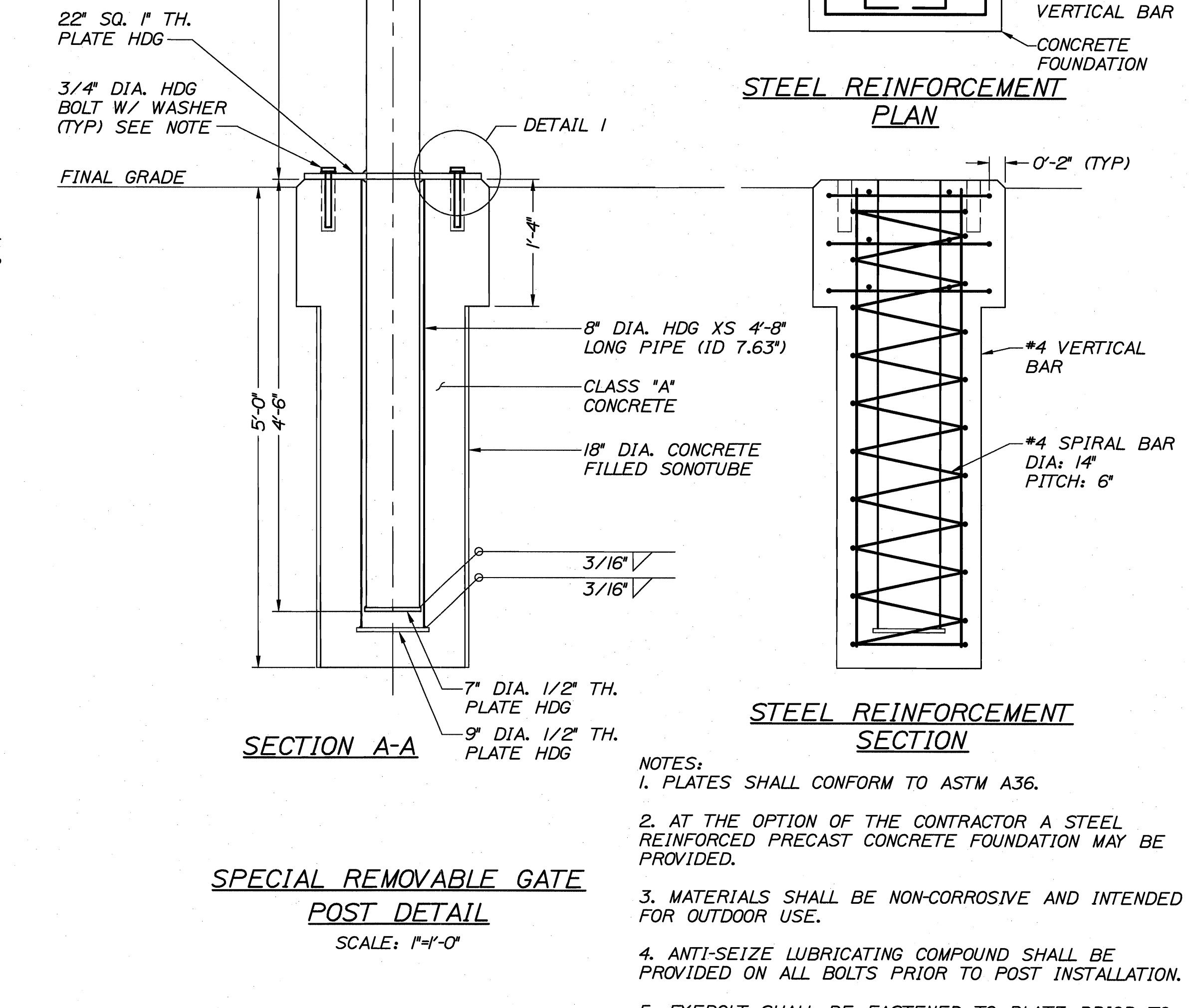
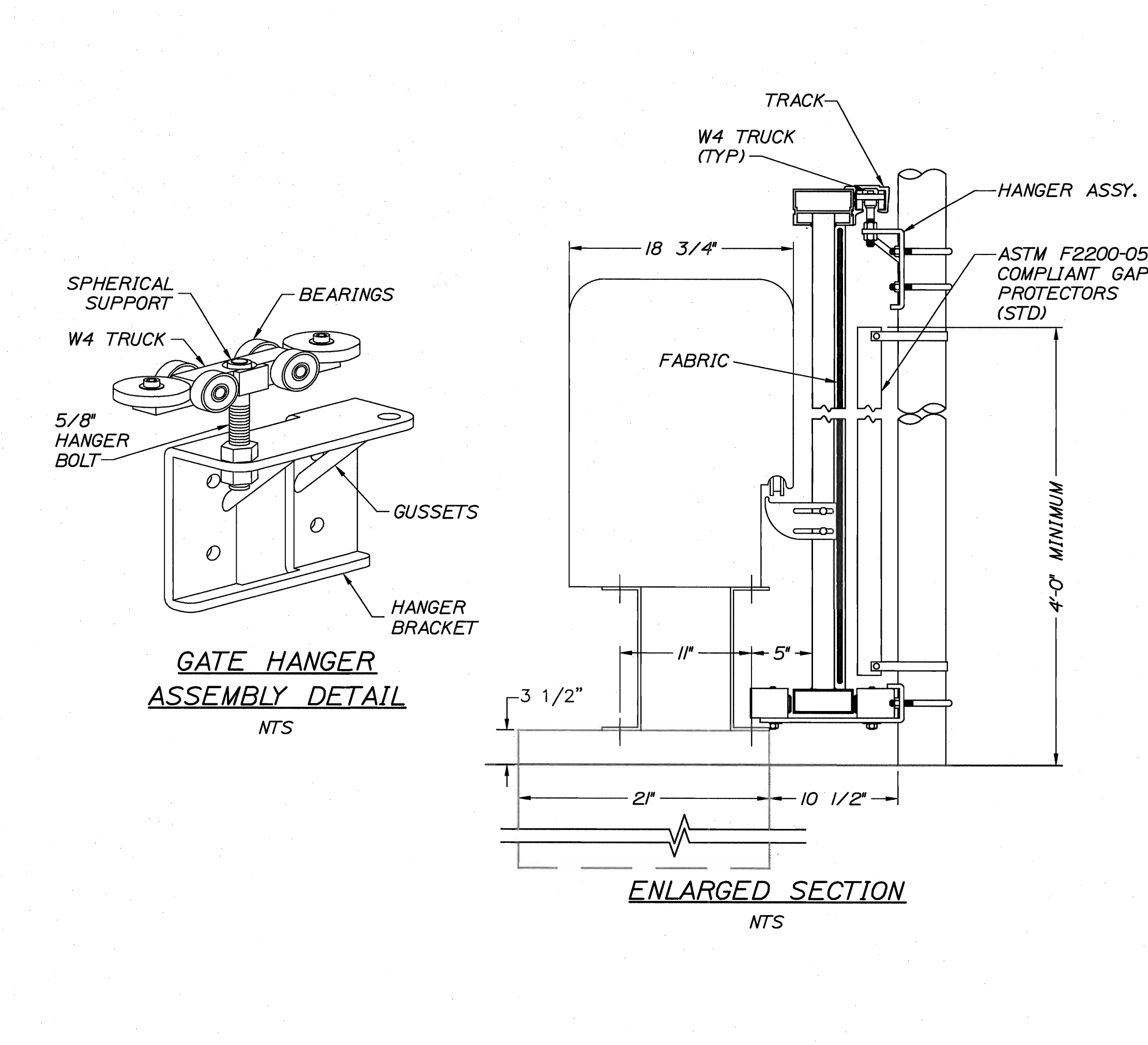
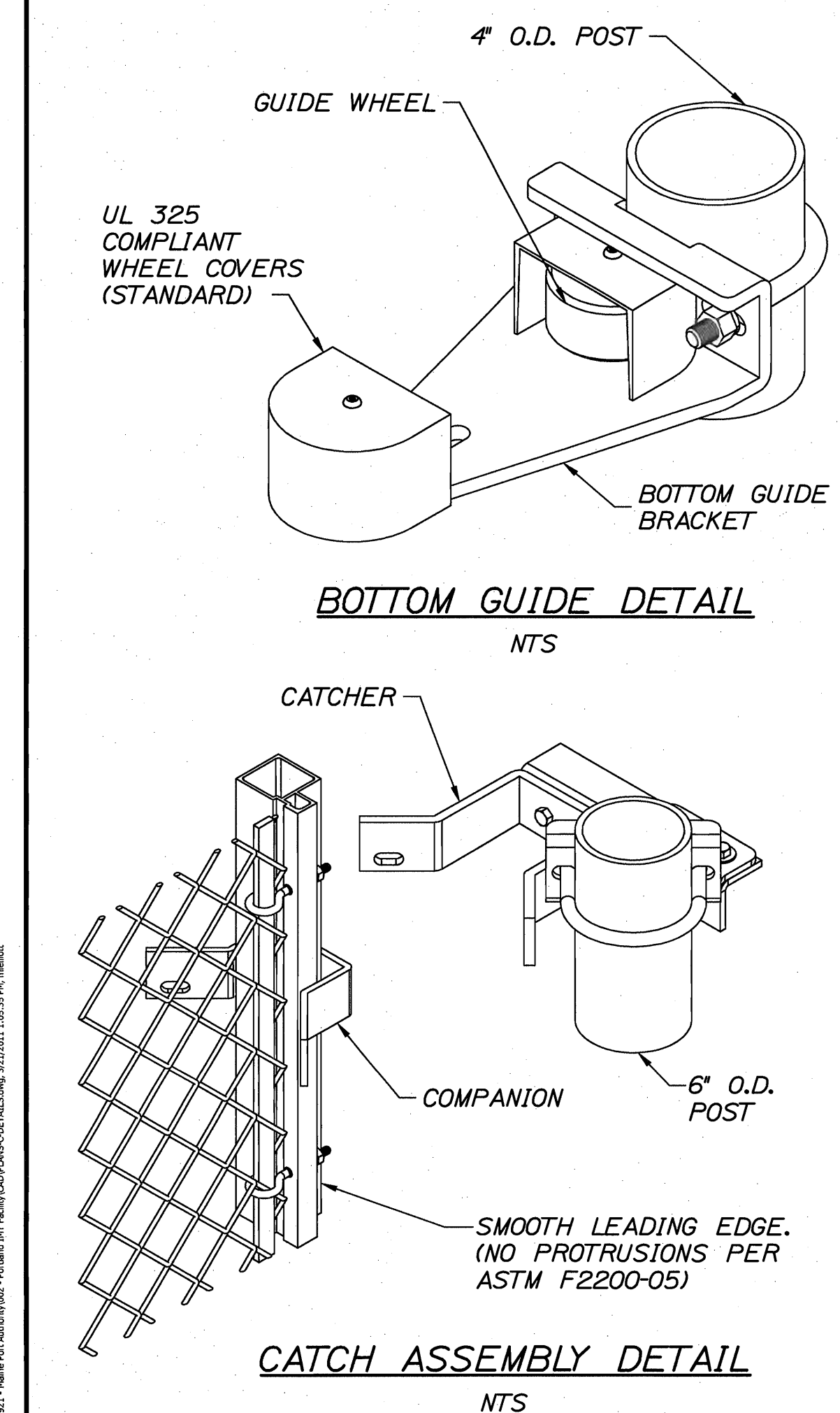
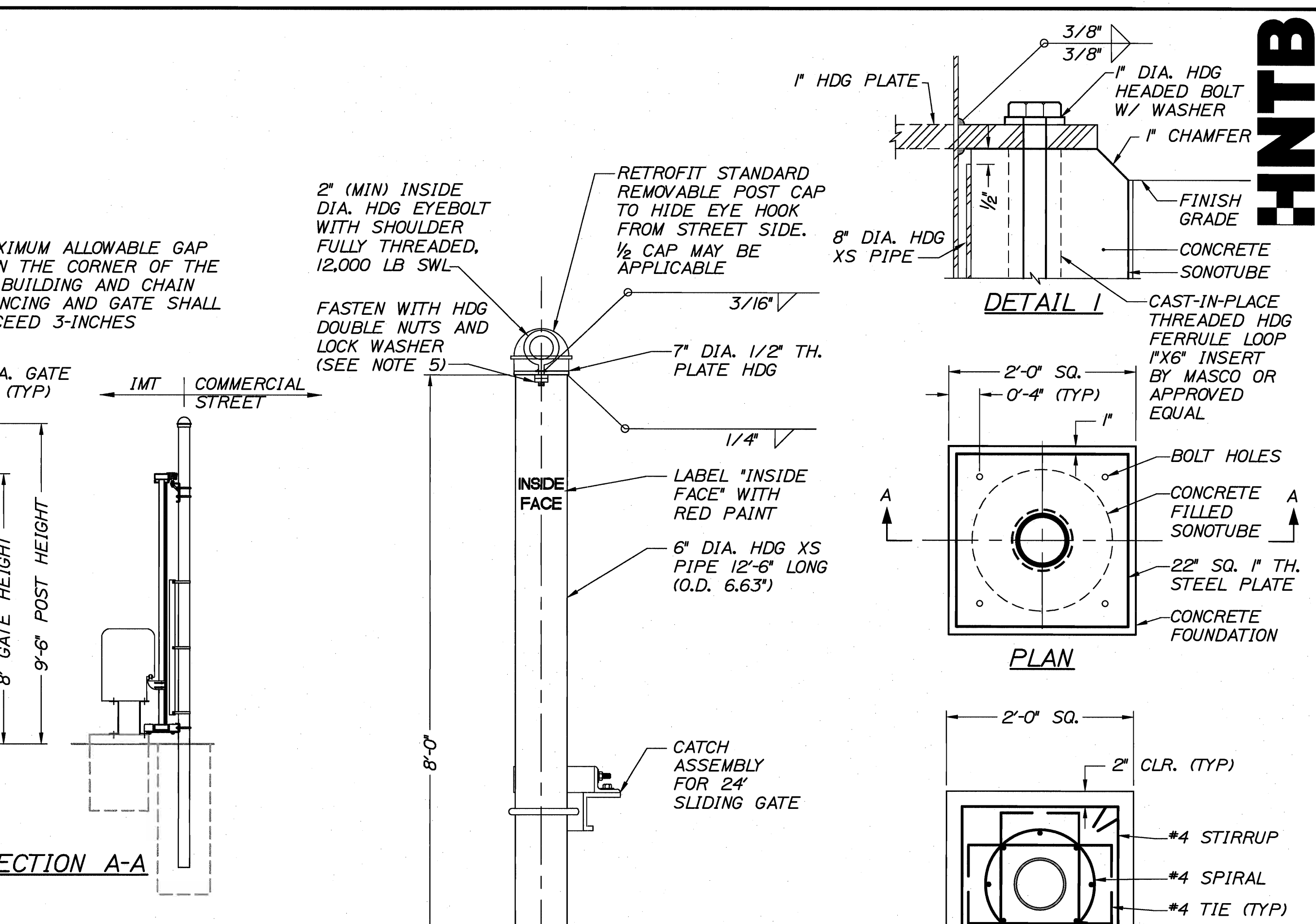
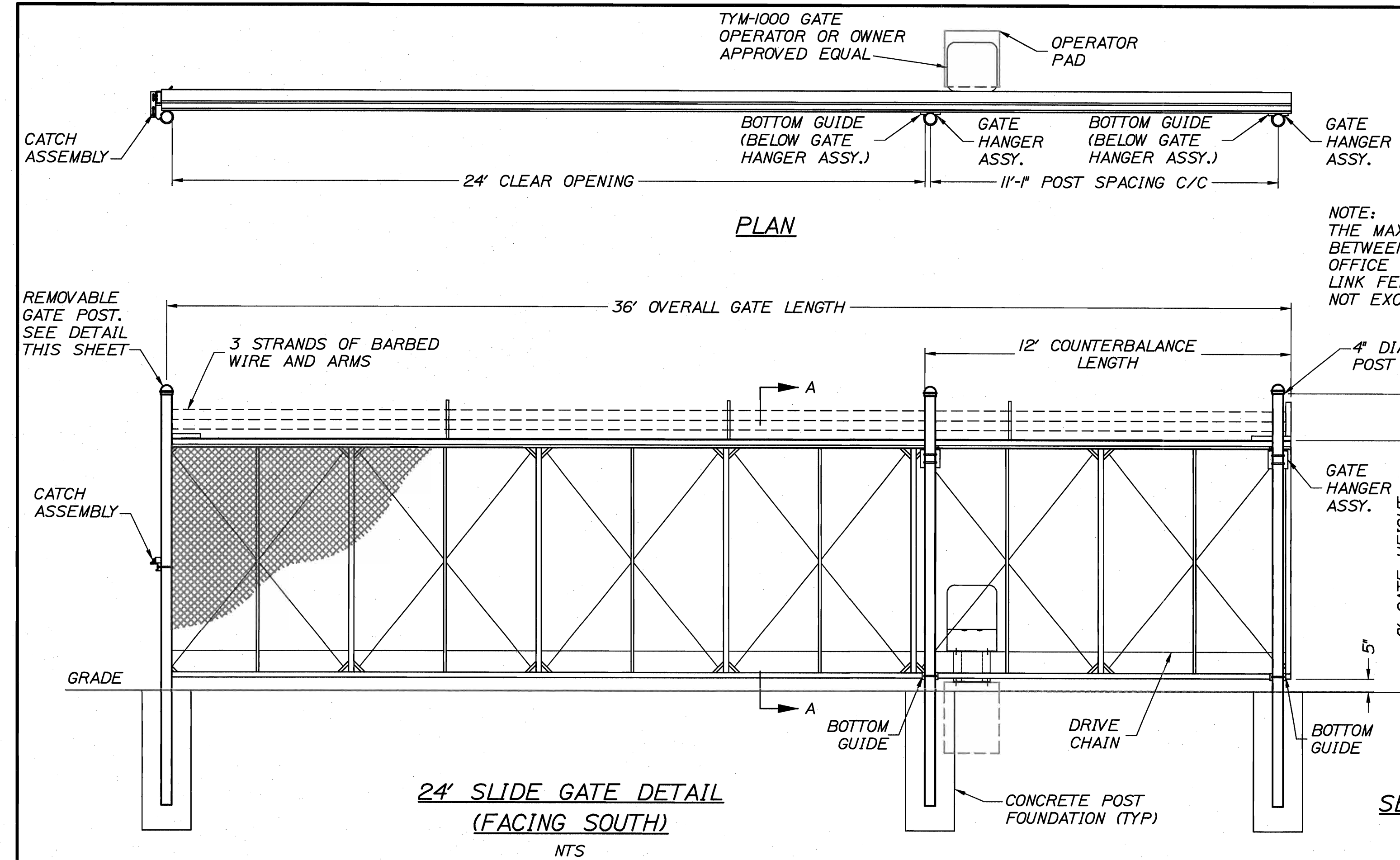
SECTION A-A (FACING NORTH)



- NOTES:**
1. TYPE I BRACING WILL BE USED AT CORNER AND END POSTS.
 2. CONCRETE FOR POST FOUNDATIONS SHALL BE CLASS "A".
 3. ALL POSTS SHALL BE SET IN CONCRETE.
 4. CHAIN LINK FENCE SHALL BE INSTALLED WITH BARBS DOWN.
 5. ALL COMPONENTS OF CHAIN LINK FENCE SHALL BE HDG STEEL IN ACCORDANCE WITH AASHTO M181.
 6. FASTEN STEEL FABRIC FROM EXISTING FENCE TO NEW POST WHERE REQUIRED.



SPECIAL SECURITY GATE POST WITH CAMERA DETAIL
SCALE: 1"=4'-0"



- NOTES:**
1. PLATES SHALL CONFORM TO ASTM A36.
 2. AT THE OPTION OF THE CONTRACTOR A STEEL REINFORCED PRECAST CONCRETE FOUNDATION MAY BE PROVIDED.
 3. MATERIALS SHALL BE NON-CORROSIVE AND INTENDED FOR OUTDOOR USE.
 4. ANTI-SEIZE LUBRICATING COMPOUND SHALL BE PROVIDED ON ALL BOLTS PRIOR TO POST INSTALLATION.
 5. EYEBOLT SHALL BE FASTENED TO PLATE PRIOR TO WELDING PLATE TO POST.

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER 017820.00

PIN 17820.00

PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS PORTLAND CUMBERLAND COUNTY

FENCING DETAILS II

SHEET NUMBER C21

24 OF 71

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/25/11	HME		DGE							

PROJ. MANAGER: CRAIG R. MORIN

DATE: 3/25/11

BY: HME

DESIGN-DETAILED: DGE

CHECKED-REVIEWED: DGE

DESIGN-REVIEWED: DGE

DESIGN-DETAILED: DGE

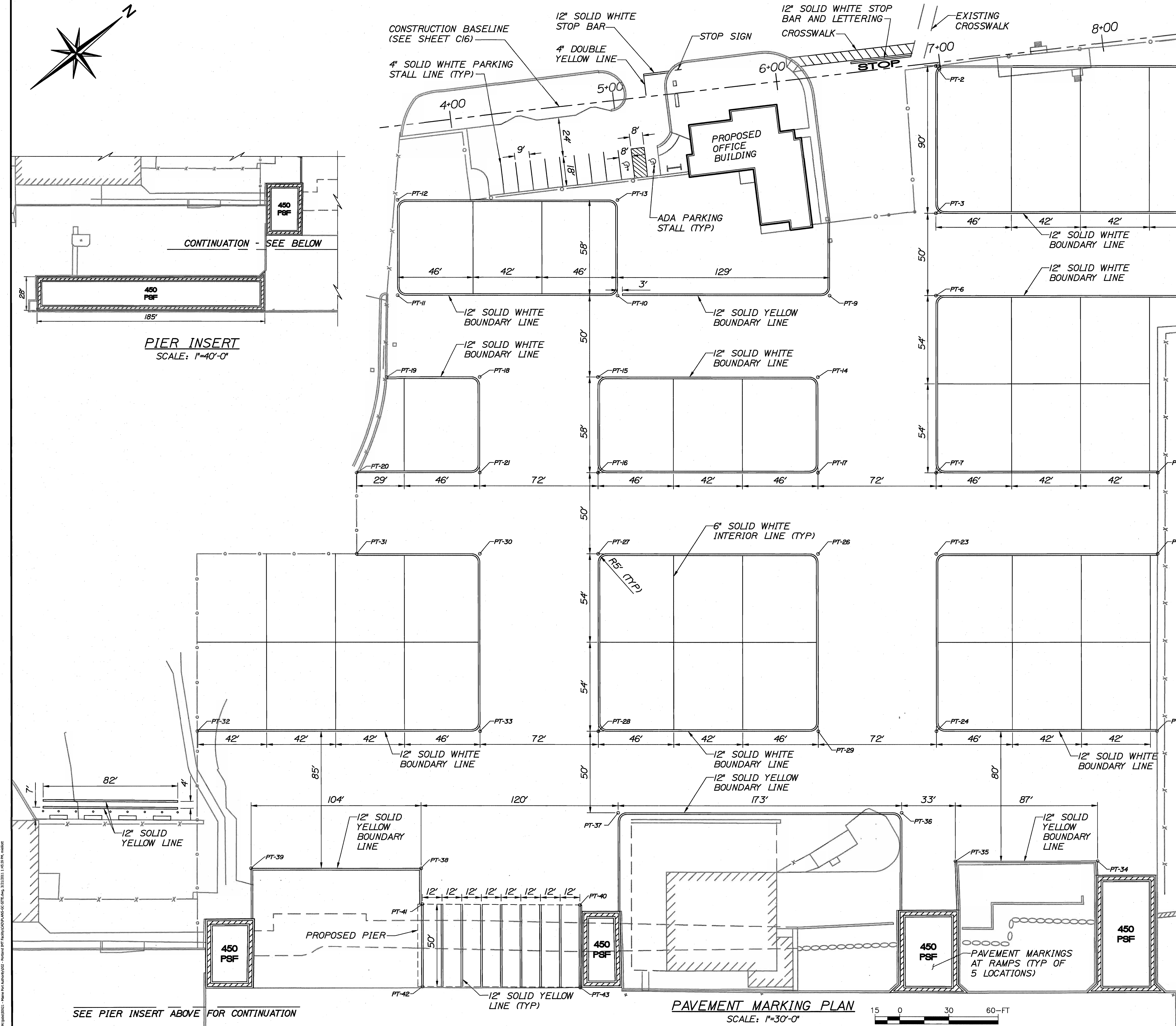
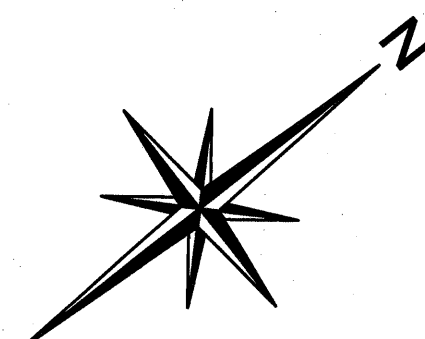
REVISIONS 1: DGE

REVISIONS 2: DGE

REVISIONS 3: DGE

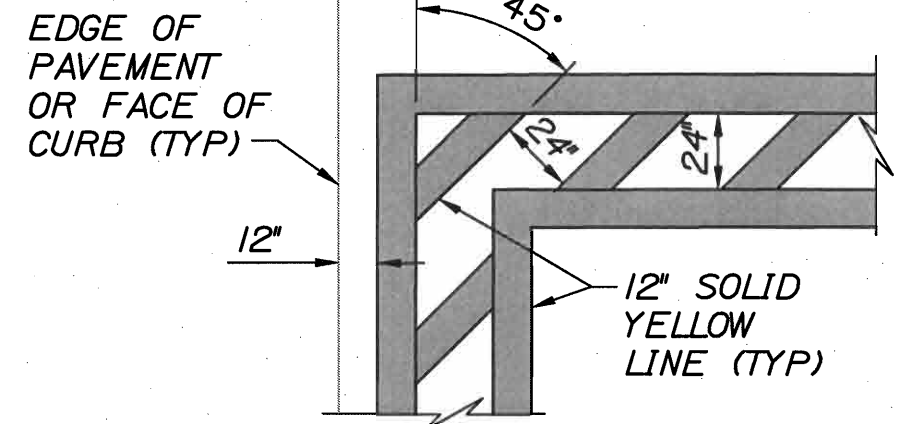
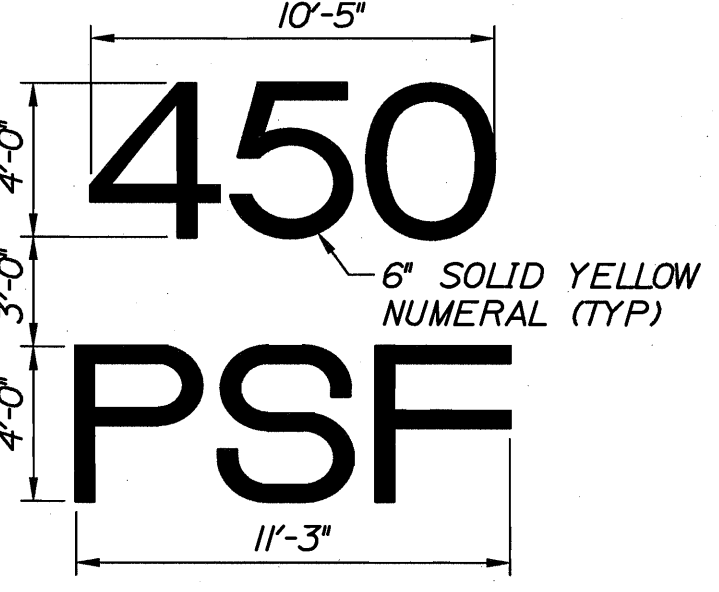
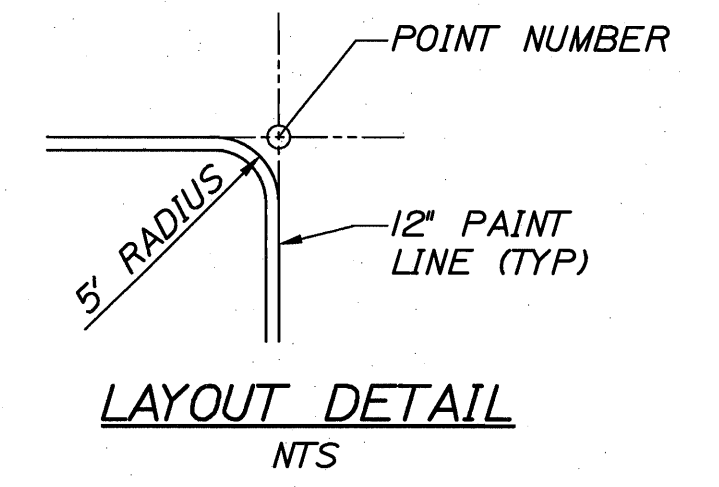
REVISIONS 4: DGE

FIELD CHANGES: DGE



PIER INSERT
SCALE: 1"=40'-0"

PAVEMENT MARKING PLAN
SCALE: 1"=30'-0"



NOTE:
LETTERS AND NUMERALS SHALL BE APPLIED WITH USE OF STENCILS. STENCILS SHALL BE APPROVED BY THE RESIDENT PRIOR TO USE.

POINT LAYOUT	LOCATION	STATION	OFFSET	POINT LAYOUT	LOCATION	STATION	OFFSET
PT-1	8+72.2	22.5'		PT-23	6+62.6	297.8'	
PT-2	6+97.4	1.93'		PT-24	6+49.9	405.0'	
PT-3	6+86.9	91.2'		PT-25	7+83.3	420.7'	
PT-4	8+61.7	111.78'		PT-26	5+91.1	289.4'	
PT-5	8+66.9	162.7'		PT-27	4+58.0	273.7'	
PT-6	6+81.0	140.9'		PT-28	4+45.3	381.0'	
PT-7	6+68.4	248.1'		PT-29	5+78.4	396.6'	
PT-8	8+02.4	263.9'		PT-30	3+86.5	265.3'	
PT-9	6+16.7	133.3'		PT-31	3+11.9	256.5'	
PT-10	4+88.4	118.2'		PT-32	2+02.7	352.4'	
PT-11	3+55.3	102.5'		PT-33	3+73.8	372.5'	
PT-12	3+62.1	44.9'		PT-34	7+37.9	495.9'	
PT-13	4+95.2	60.6'		PT-35	6+51.9	485.8'	
PT-14	6+03.7	182.1'		PT-36	6+23.0	452.2'	
PT-15	4+70.6	166.4'		PT-37	4+51.4	432.0'	
PT-16	4+63.8	224.0'		PT-38	3+28.1	452.3'	
PT-17	5+96.9	239.7'		PT-39	2+25.3	440.2'	
PT-18	3+99.1	158.0'		PT-40	4+21.6	485.7'	
PT-19	3+42.8	151.4'		PT-41	3+26.3	474.0'	
PT-20	3+17.8	206.8'		PT-42	3+20.5	523.7'	
PT-21	3+02.7	215.6'		PT-43	4+15.9	575.4'	

NOTES:
1. ALL PAVEMENT STRIPING AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., 2009 EDITION.
2. PAVEMENT MARKINGS WITHIN OFFICE BUILDING PARKING LOT, DRIVEWAYS, AND CROSSWALK ARE PART OF THE BASE BID.
3. PAVEMENT MARKINGS WITHIN THE CONTAINER STORAGE AREA, CONCRETE RAMPS, AND REEFER AREA SHALL BE PART OF BID ALTERNATE NO. 3.

HNTB
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00


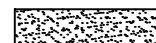
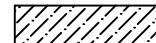
DATE: 3/25/11
BY: HME
PROJ. MANAGER: CRAIG R. MORIN
CHECKED: CRM
DESIGN-REVIEWED: RBM
DESIGN-DETAILED: J
DESIGN-DETAILED2: J
REVISIONS: 1
REVISIONS: 2
REVISIONS: 3
REVISIONS: 4
FIELD CHANGES: J

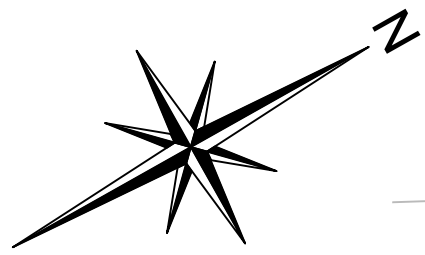
DATE: 3/25/11
BY: HME
PROJ. MANAGER: CRAIG R. MORIN
CHECKED: CRM
DESIGN-REVIEWED: RBM
DESIGN-DETAILED: J
DESIGN-DETAILED2: J
REVISIONS: 1
REVISIONS: 2
REVISIONS: 3
REVISIONS: 4
FIELD CHANGES: J

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
PAVEMENT MARKING PLAN

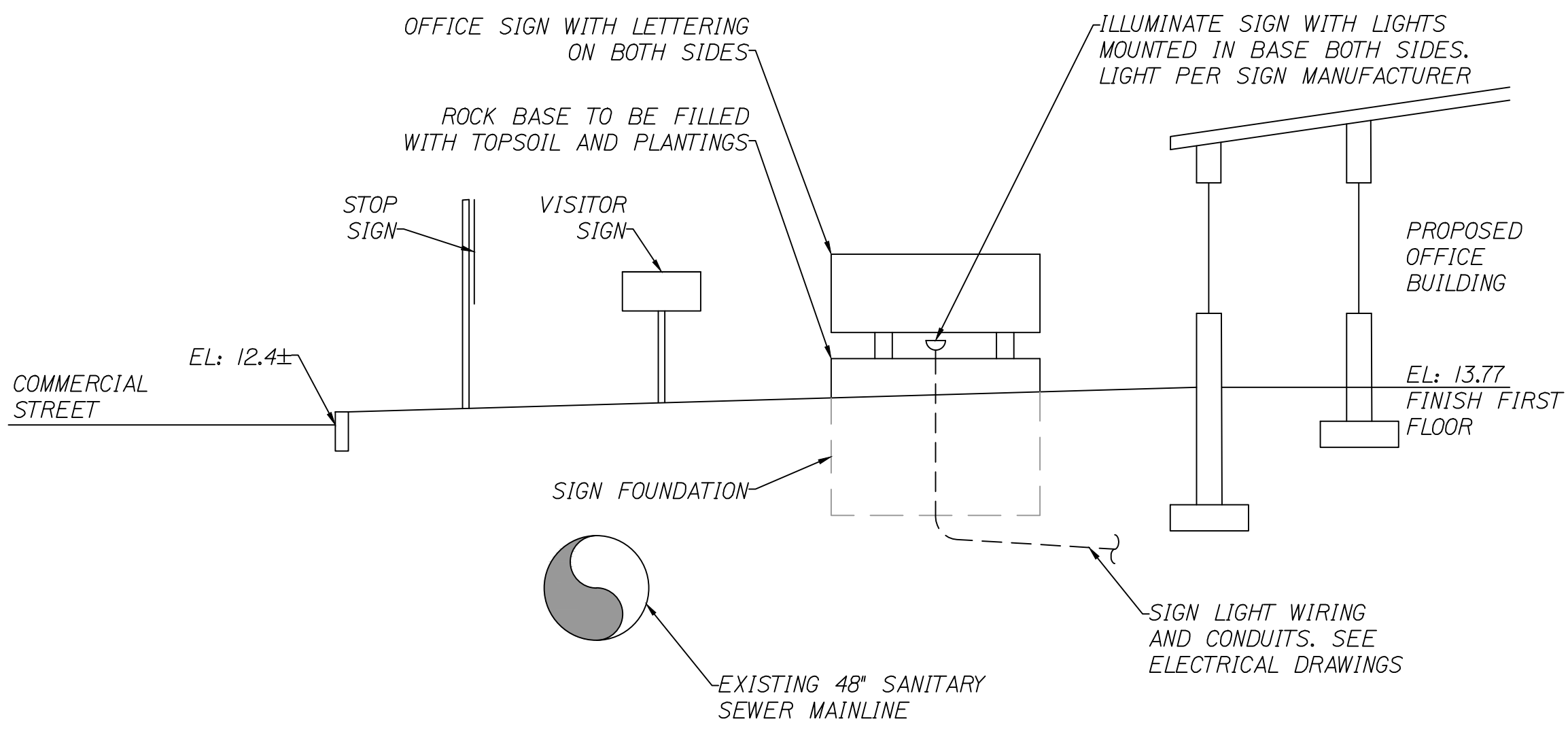
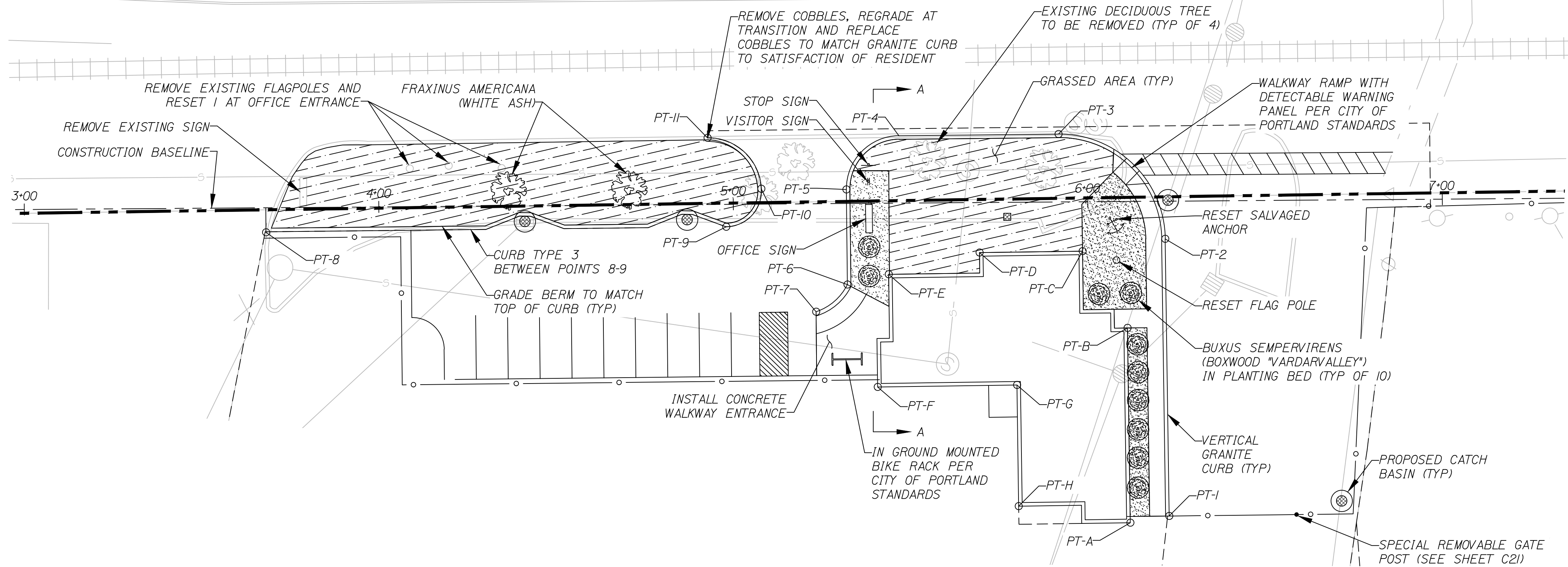
SHEET NUMBER
C22
25 OF 71

LEGEND

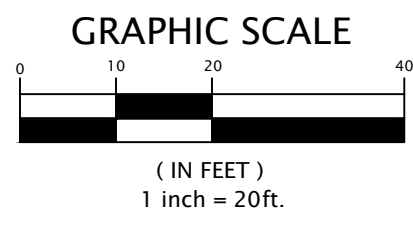
-  BOXWOOD SHRUB
-  PLANTING BED
-  GRASSED AREA



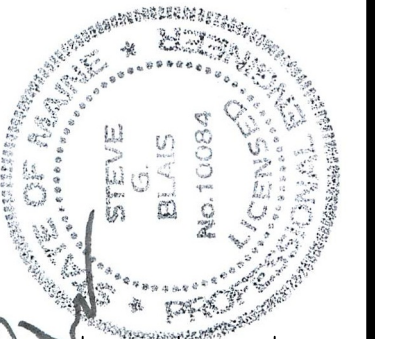
CONTROL POINTS FOR CURB			CONTROL POINTS FOR OFFICE		
LOCATION	STATION	OFFSET	LOCATION	STATION	OFFSET
PT-1	6+22.3	88.85'-RT	PT-A	6+11.3	90.66'-RT
PT-2	6+21.7	10.63'-RT	PT-B	6+10.9	35.69'-RT
PT-3	5+91.6	19.15'-LT	PT-C	5+98.4	13.93'-RT
PT-4	5+46.9	19.0'-LT	PT-D	5+69.3	14.14'-RT
PT-5	5+31.9	3.95'-LT	PT-E	5+43.7	20.07'-RT
PT-6	5+32.0	22.88'-RT	PT-F	5+40.3	51.86'-RT
PT-7	5+23.1	30.49'-RT	PT-G	5+79.6	51.58'-RT
PT-8	3+68.1	6.96'-RT	PT-H	5+79.9	85.76'-RT
PT-9	4+97.9	6.34'-RT			
PT-10	5+07.9	4.32'-LT			
PT-11	4+92.8	18.81'-LT			



SECTION A-A
SCALE: 1"=5'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00



DATE	BY	PROJ. MANAGER	REVISIONS	SIGNATURE	P.E. NUMBER	DATE
3/25/11	JAV-SGB	CRAIG R. MORIN	1	STEVE G. BLAIS	10084	3/24/11
3/25/11	SGB		2			
			3			
			4			

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
LANDSCAPING PLAN

SHEET NUMBER

C23



DATE: 3/25/11
BY: CRAIG R. MORIN
DESIGN-DETAILED: JAV-SGB
CHECKED-REVIEWED: SGB
DESIGN-DETAILED: SGB
DESIGN-DETAILED: SGB
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

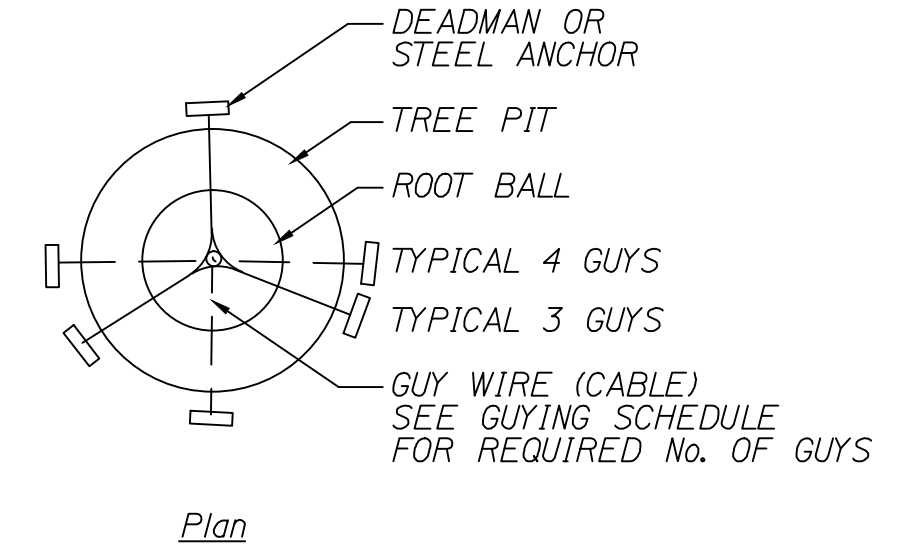
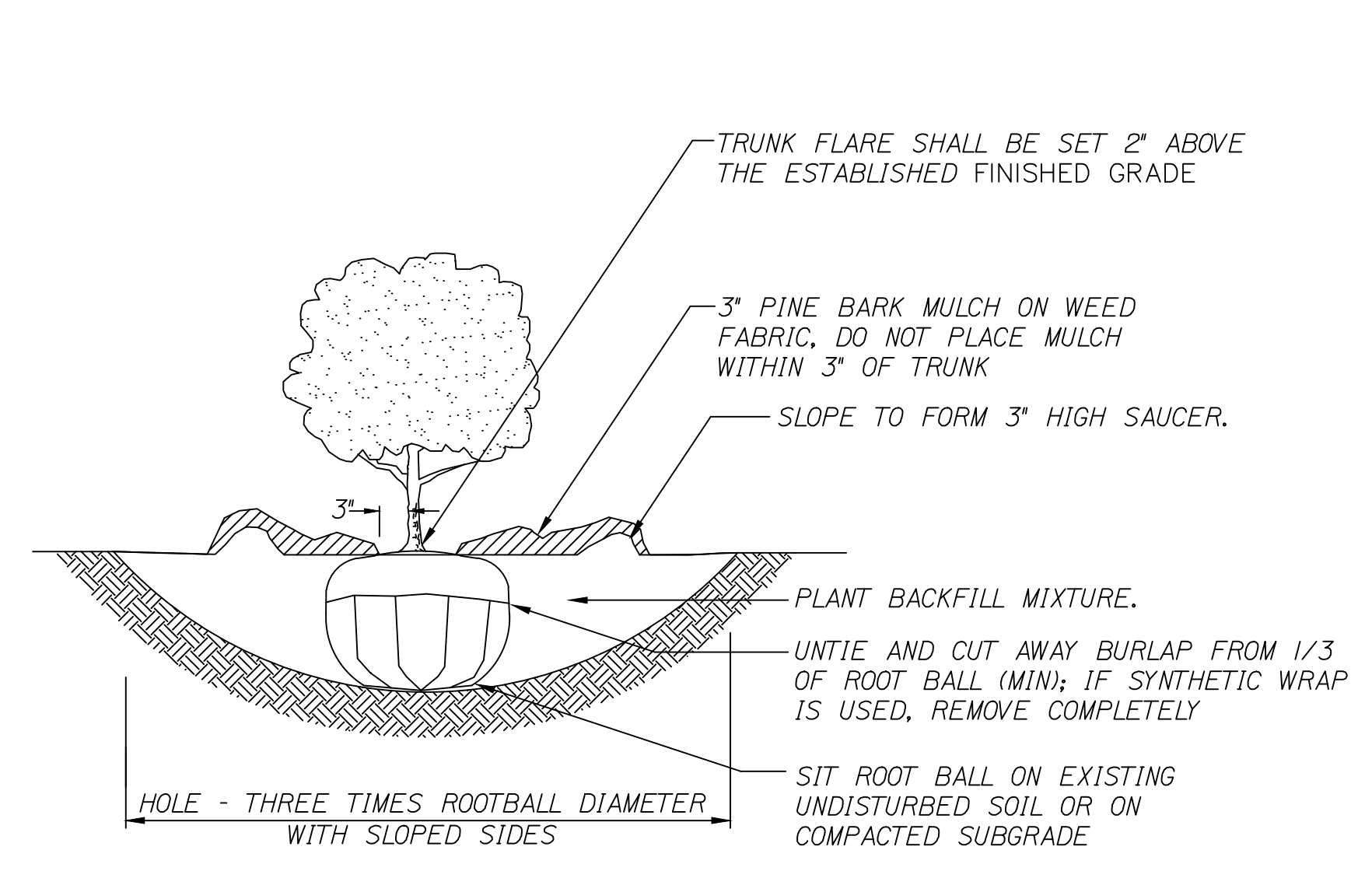
PROJ. MANAGER: CRAIG R. MORIN
DATE: 3/25/11
BY: JAV-SGB
DESIGN-DETAILED: SGB
CHECKED-REVIEWED: SGB
DESIGN-DETAILED: SGB
DESIGN-DETAILED: SGB
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
LANDSCAPING DETAILS

SHEET NUMBER

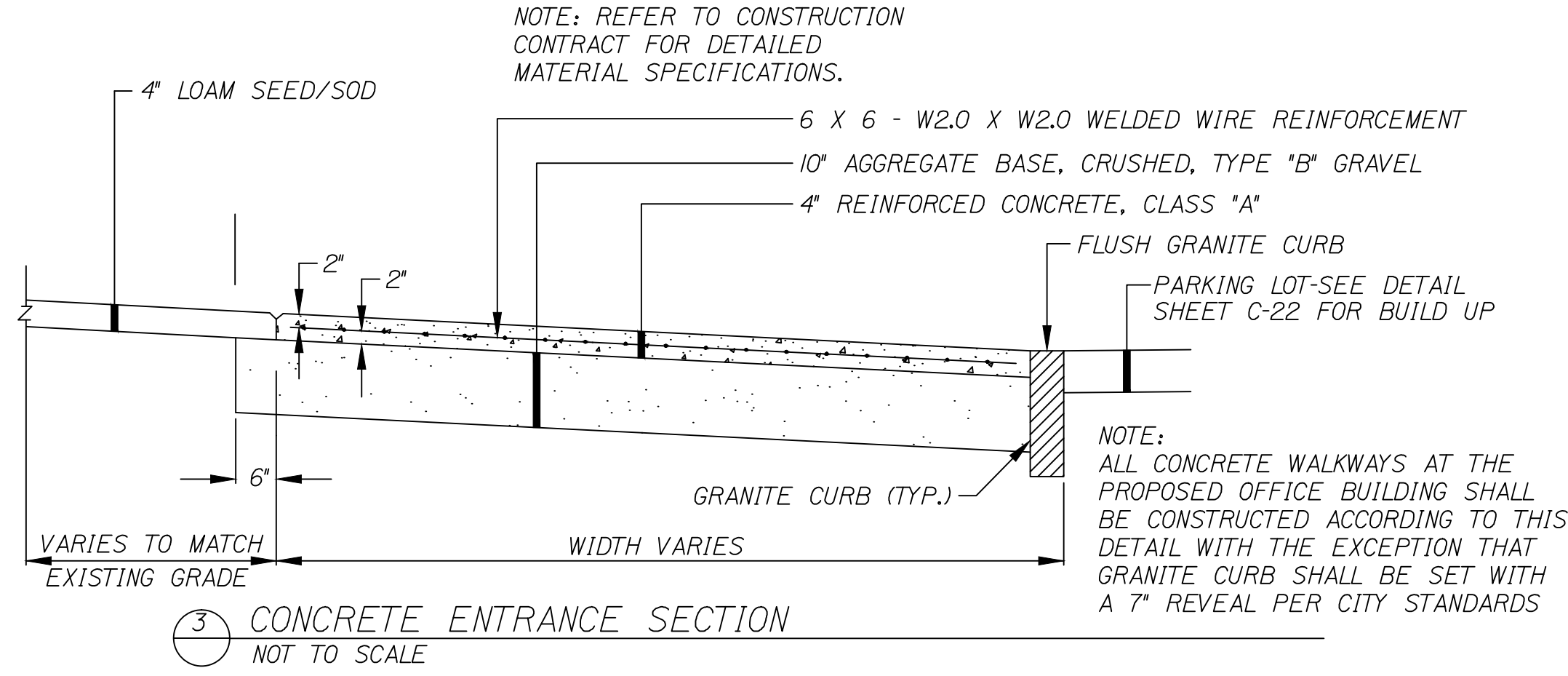
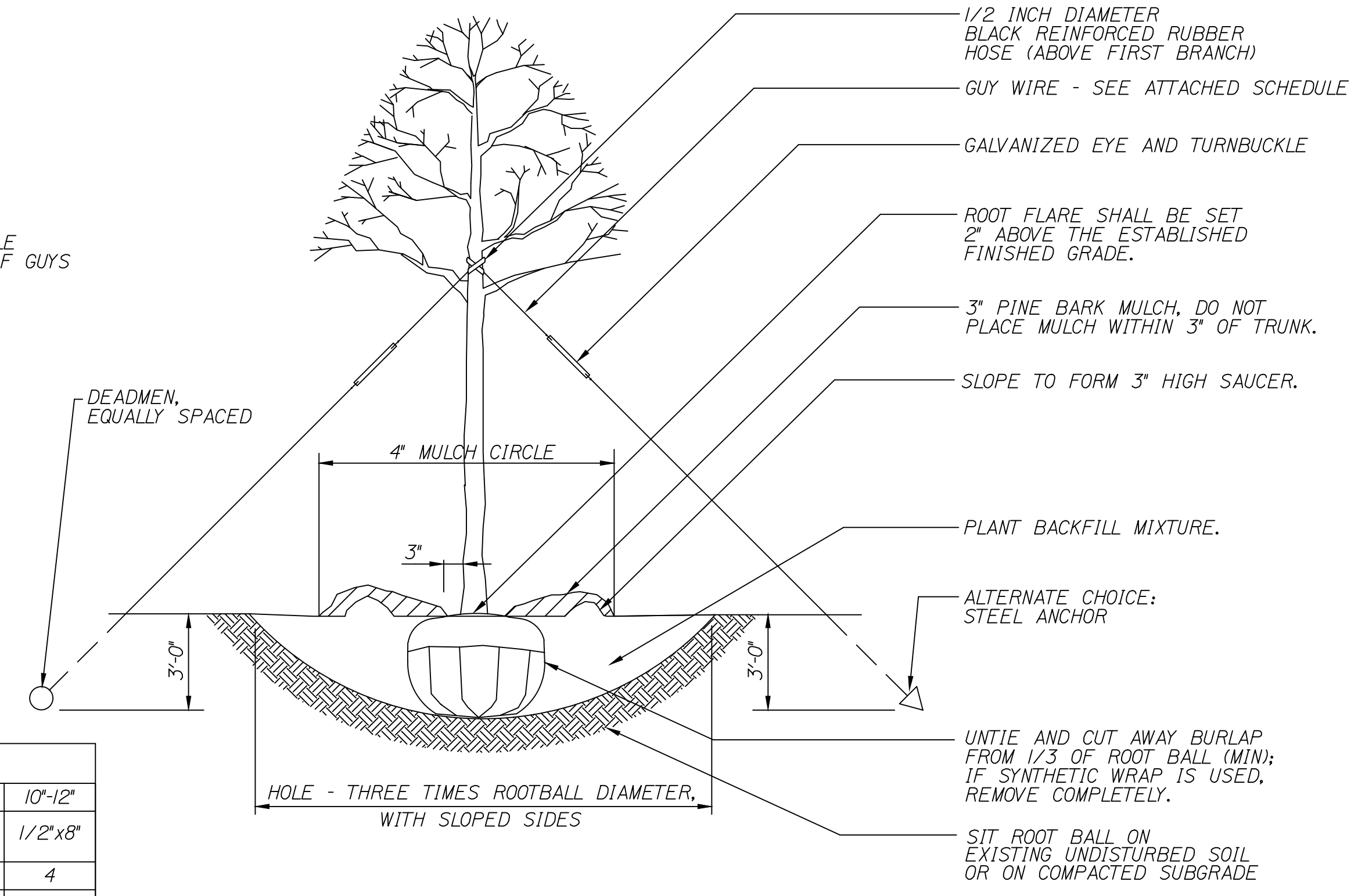
C24

1 SHRUB PLANTING
NOT TO SCALE

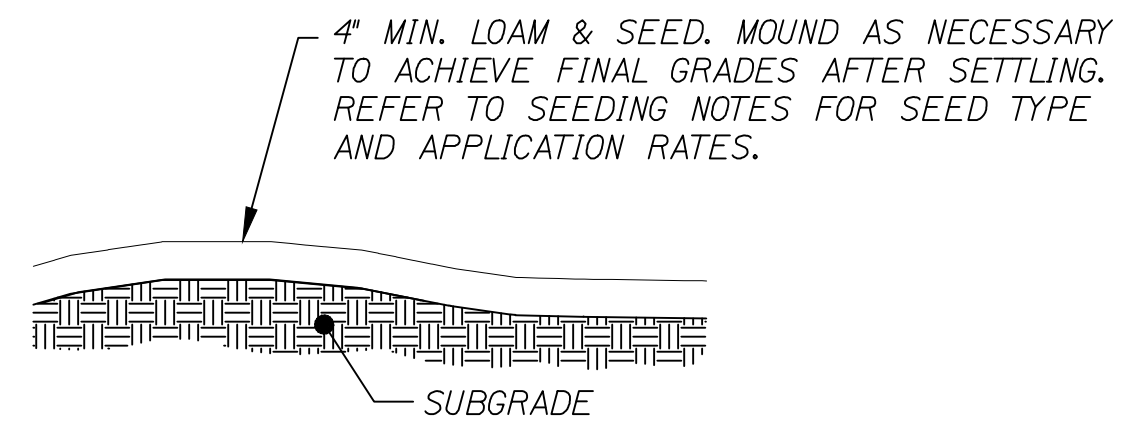


Notes:
1. USE GUYING SCHEDULE BELOW FOR DECIDUOUS AND EVERGREEN TREES OVER 4" CALIPER.

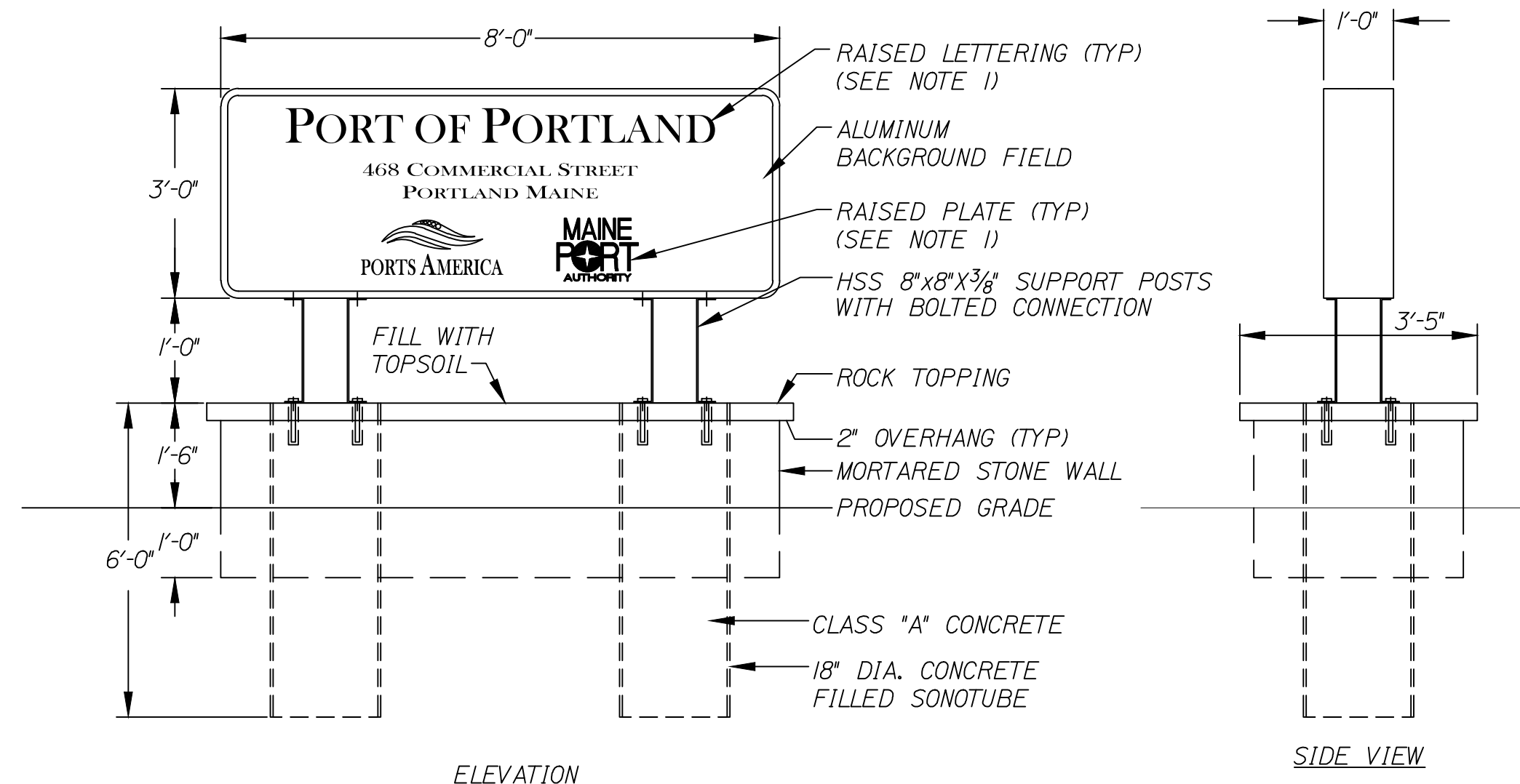
Guying Schedule				
TREE CALIPER	4"-6"	6"-8"	8"-10"	10"-12"
TURNBUCKLE (GALVANIZED)	5/16"x 4-1/2"	5/16"x 4-1/2"	3/8"x6"	1/2"x8"
* GUYS REQ'D.	3	3	4	4
WIRE OR CABLE	1/8"DIA.	3/16"DIA.	1/4"DIA.	5/16"DIA.
DEADMEN SIZE	4" DIA.	6" DIA.	8" DIA.	10" DIA.
DEADMAN LENGTH	24"	24"	36"	48"



2 DECIDUOUS PLANTING (4" CALIPER AND GREATER)
NOT TO SCALE



6 LOAM AND SEED DETAIL
NOT TO SCALE

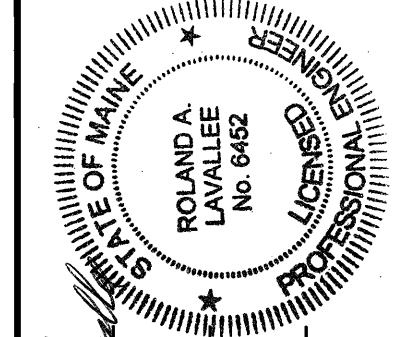


5 OFFICE SIGN WITH FOUNDATION
NOT TO SCALE

OFFICE SIGN NOTES:
1. ALL GRAPHICS WILL BE FLAT CUT ALUMINUM 3/8" THICK STUD MOUNT FLUSH. ART FILES TO BE PROVIDED BY OWNER. ALL MATERIALS SHALL BE NATURAL BRUSHED SATIN FINISH.
2. LIGHT DETAILS NOT SHOWN FOR CLARITY. SEE ELECTRICAL DRAWINGS FOR LIGHTING AND CONDUITS.
3. OFFICE SIGN INCLUDING HSS SUPPORT POSTS SHALL BE BID ALTERNATE NO. 6 UNDER PAY ITEM 621.99.
4. FOUNDATION ELEMENTS INCLUDING CONCRETE FILLED SONOTUBES, STONE WALL, BEDDING, AND TOPSOIL SHALL BE INCIDENTAL TO PAY ITEM 621.90 IN THE BASE BID.

SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
48"	24"	TRUCK ENTRANCE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			4	SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			8.00 (32.00)	
48"	24"	RESTRICTED ACCESS				2				8.00 (16.00)	
36"	18"	VISITOR ENTRANCE				2				8.00 (16.00)	
48"	48"	STOP				1				16.00 (16.00)	

4 TRAFFIC SIGN SUMMARY
NOT TO SCALE

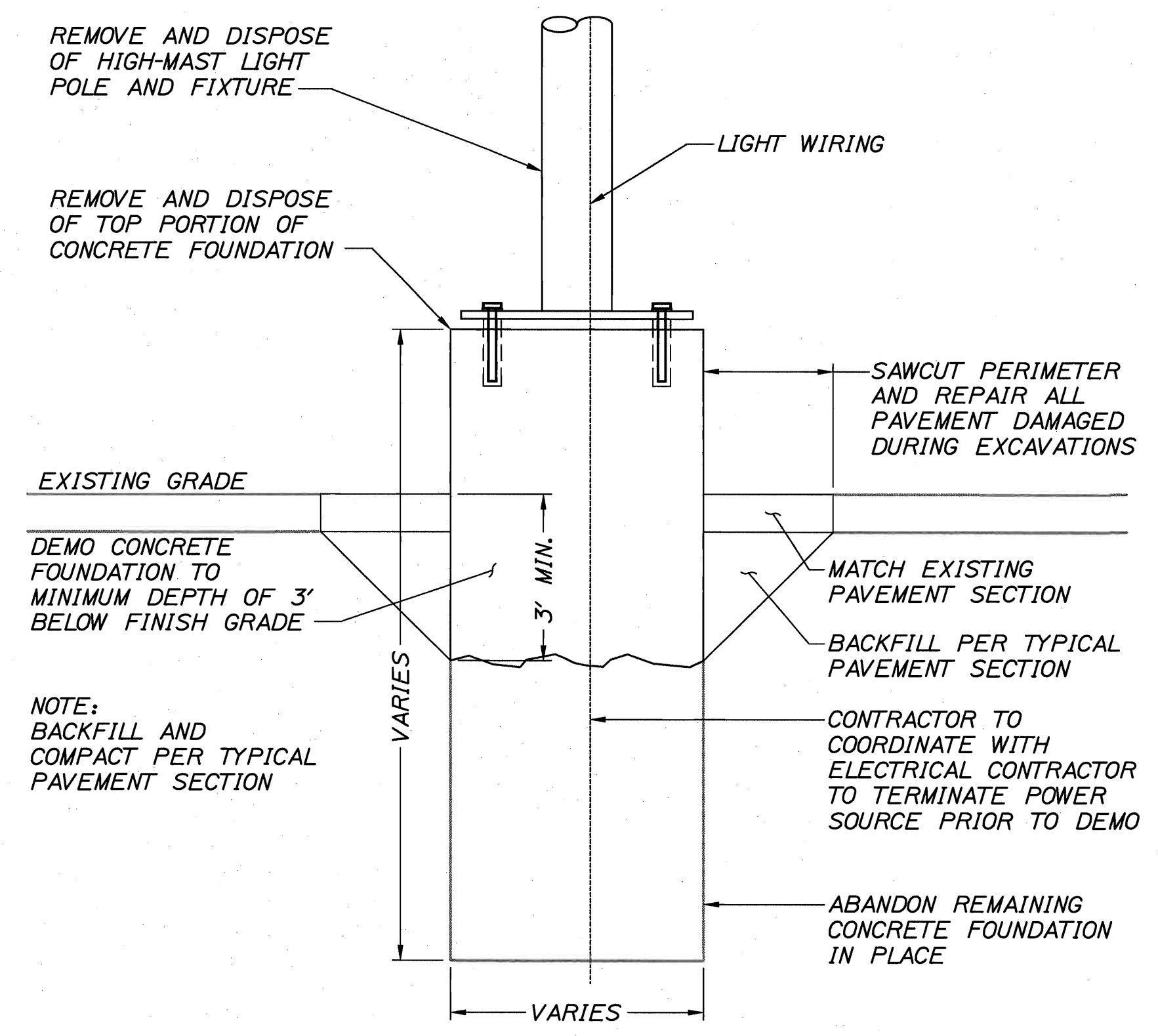


PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	CRW/JW	BY	HME
CHECKED-REVIEWED	CRW	DATE	3/25/11
DESIGN-DETAILED	CRW	BY	RAL
DESIGN-DETAILED	CRW	DATE	3/25/11
REVISIONS	1	P.E. NUMBER	6462
REVISIONS	2	DATE	3/25/11
REVISIONS	3		
REVISIONS	4		
FIELD CHANGES			

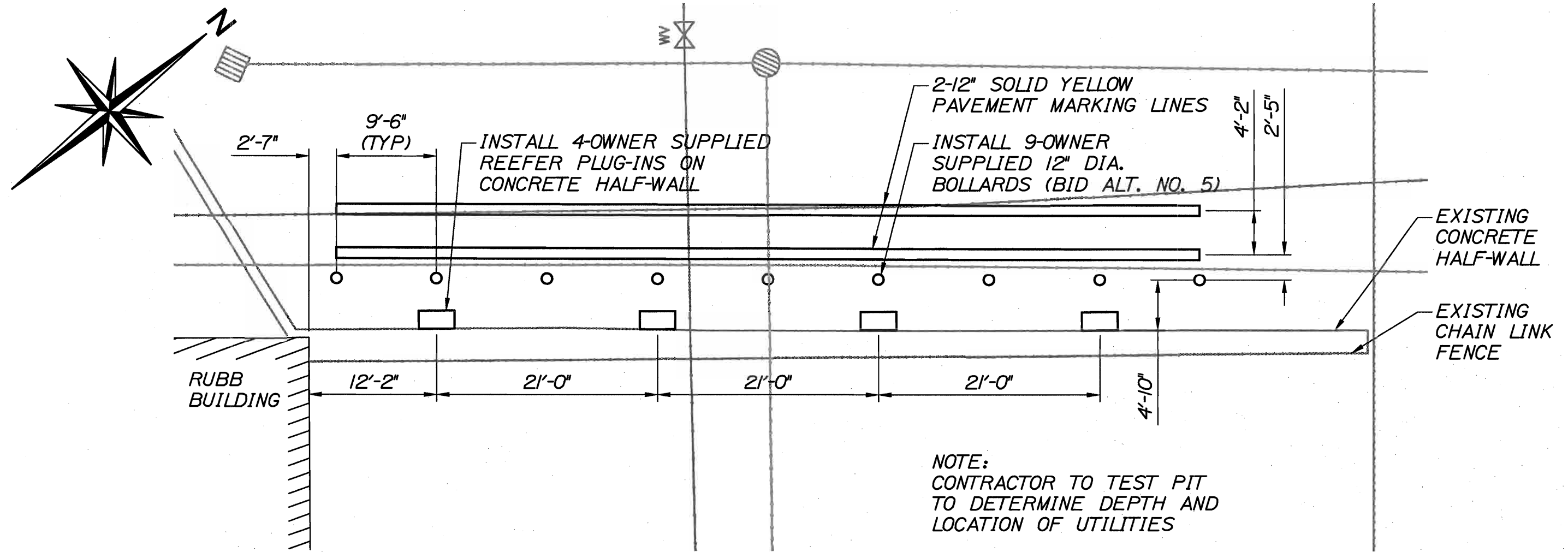
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
MISCELLANEOUS DETAILS I

SHEET NUMBER

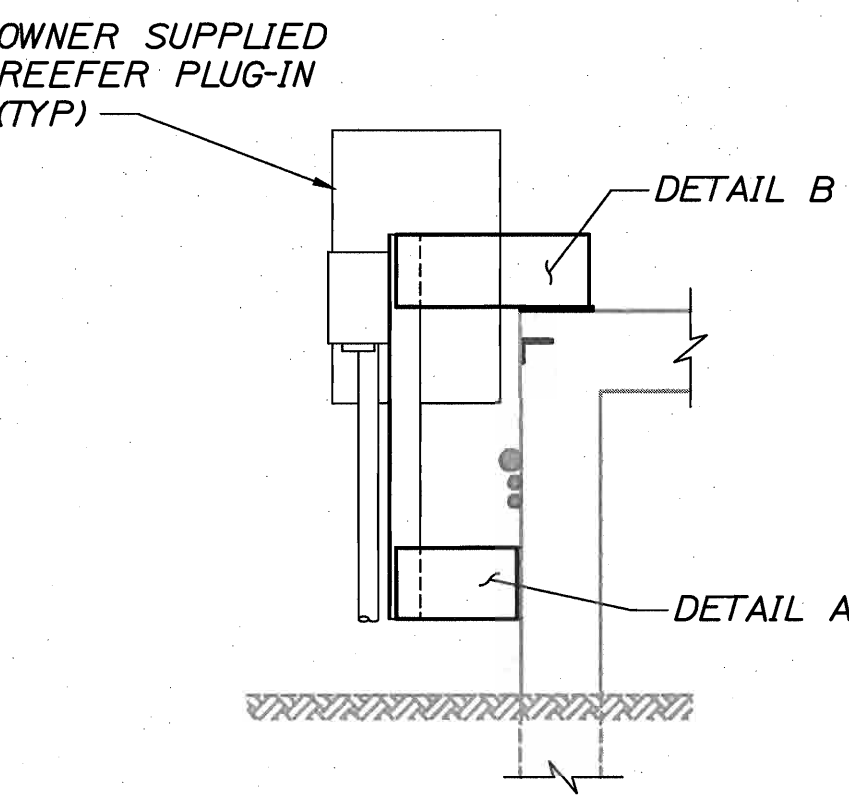
C25



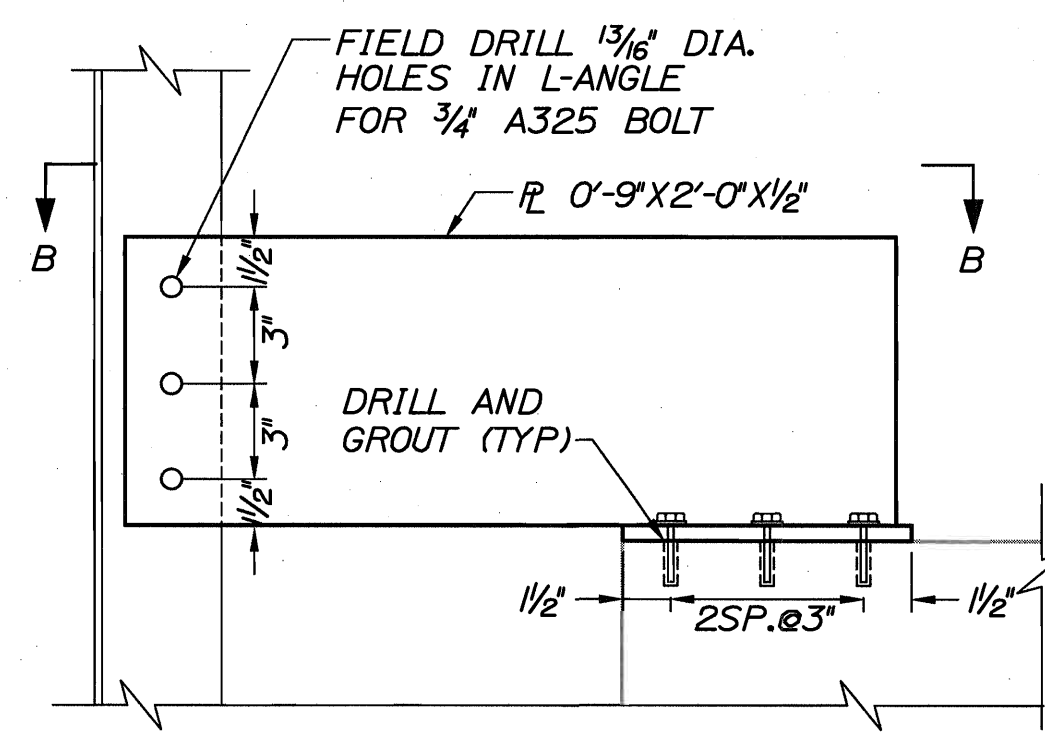
HIGH-MAST LIGHT REMOVAL DETAIL
NTS



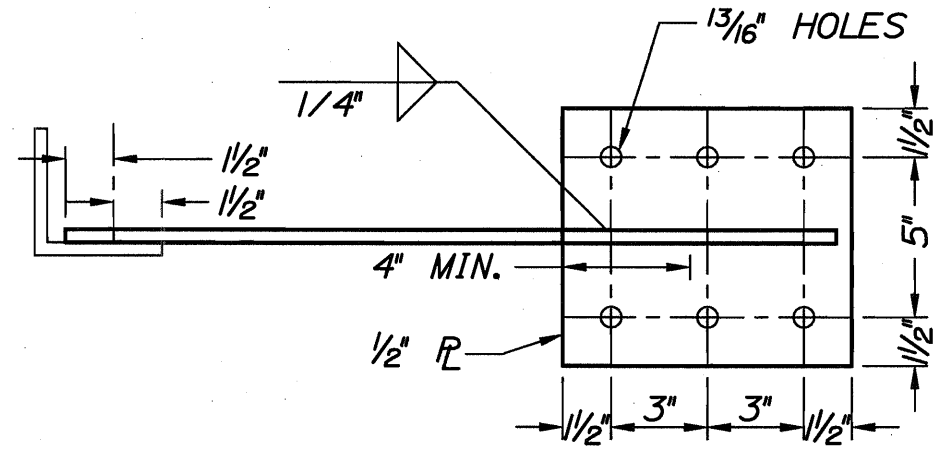
REEFER PLUG-IN LAYOUT
SCALE: 1"=10'-0"



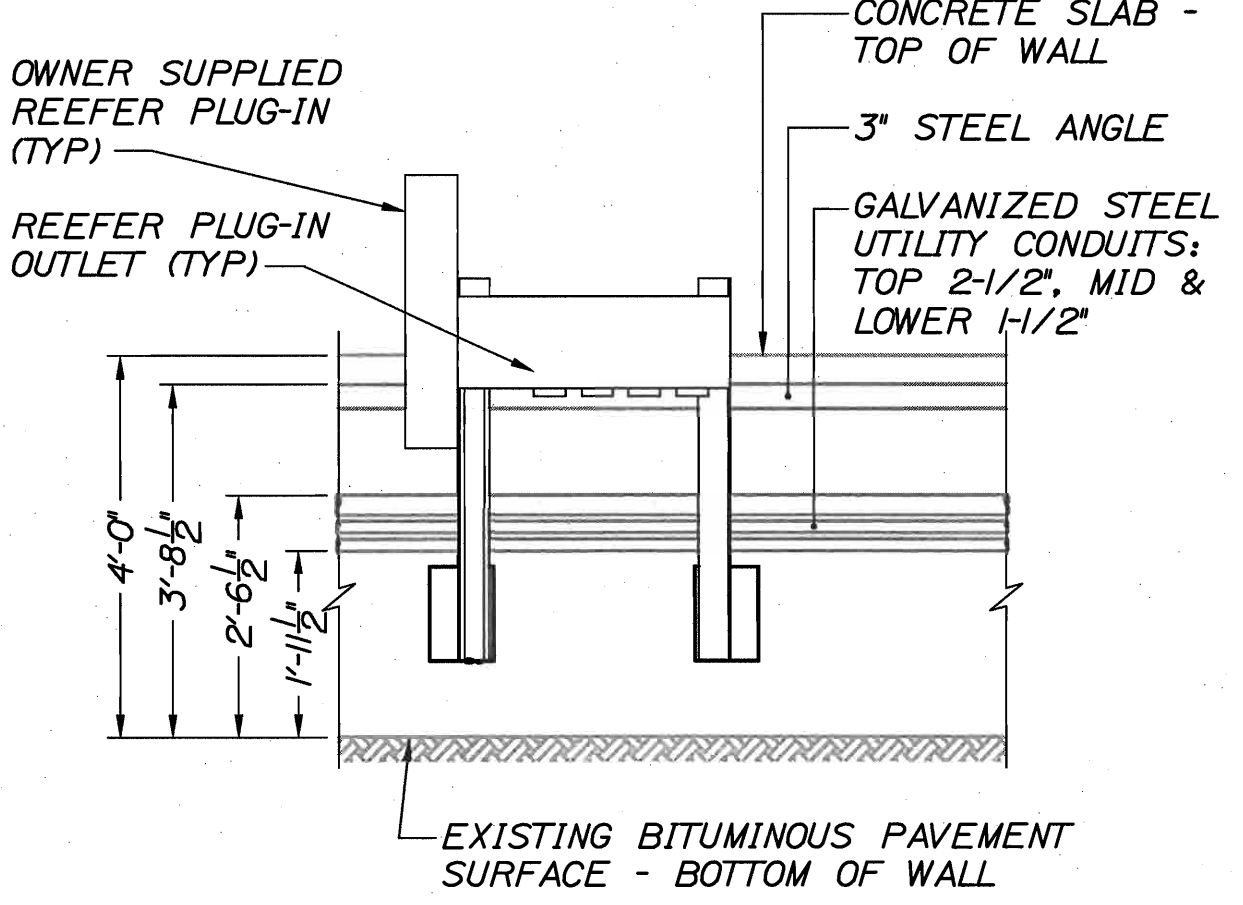
SIDE VIEW
SCALE: 1/2"=1'-0"



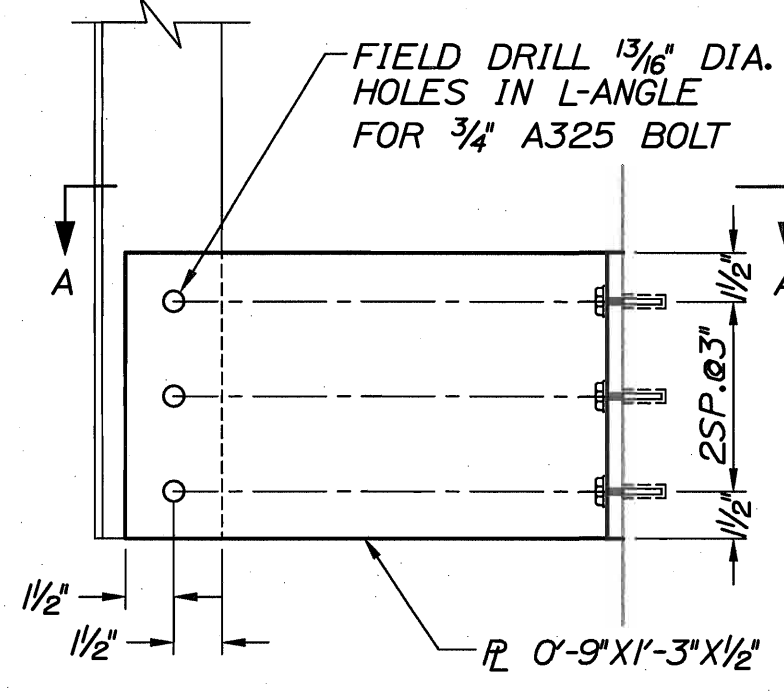
DETAIL B
SCALE: 2"=1'-0"



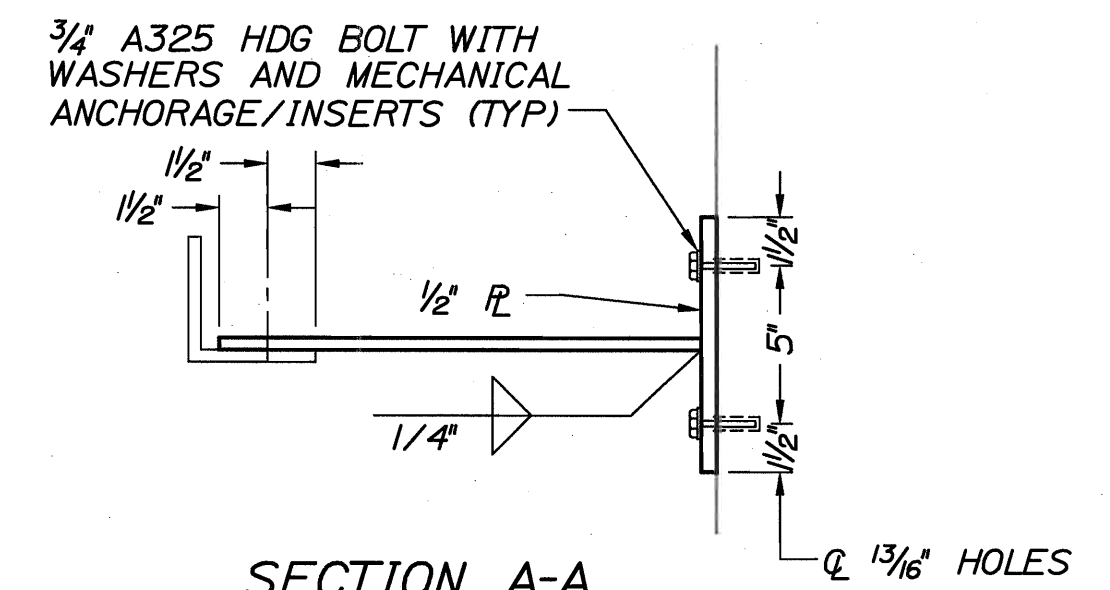
SECTION B-B
SCALE: 2"=1'-0"



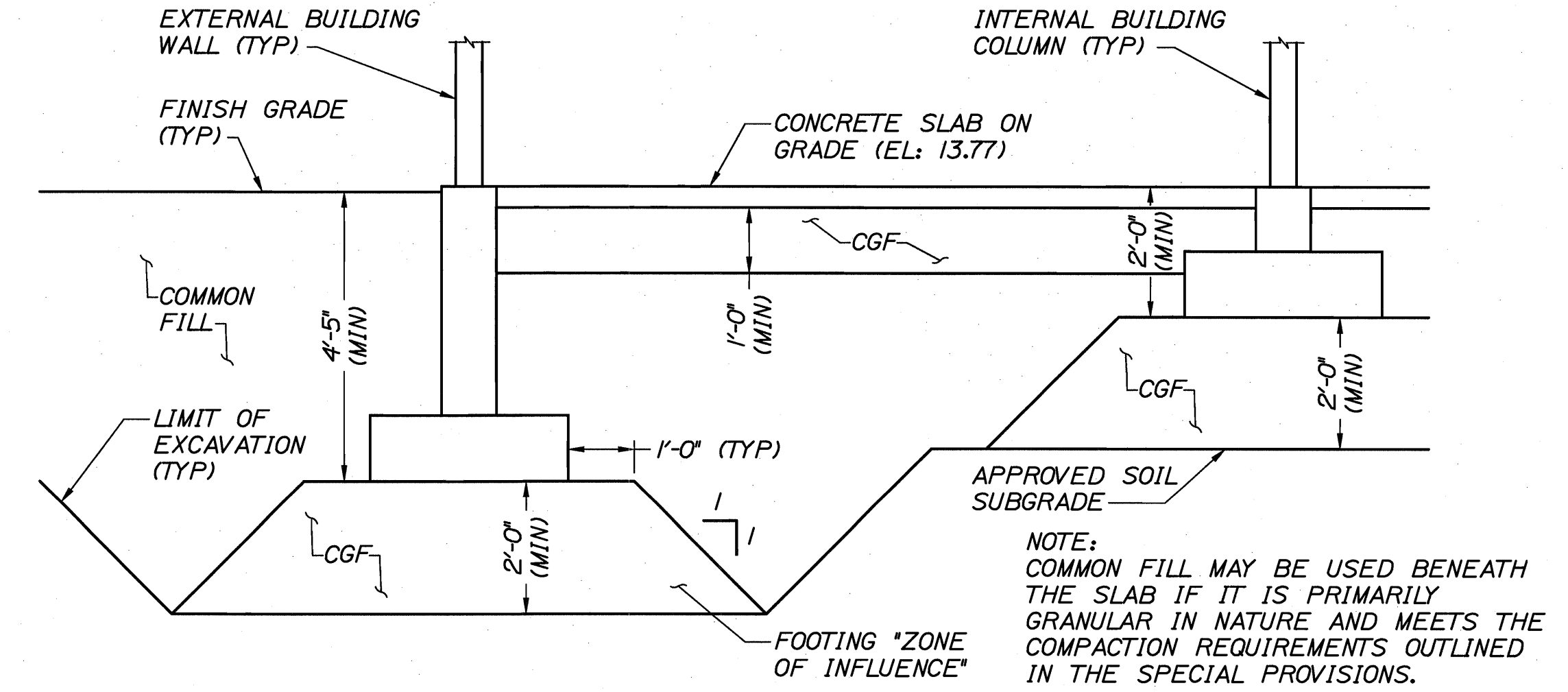
FRONT VIEW
SCALE: 1/2"=1'-0"



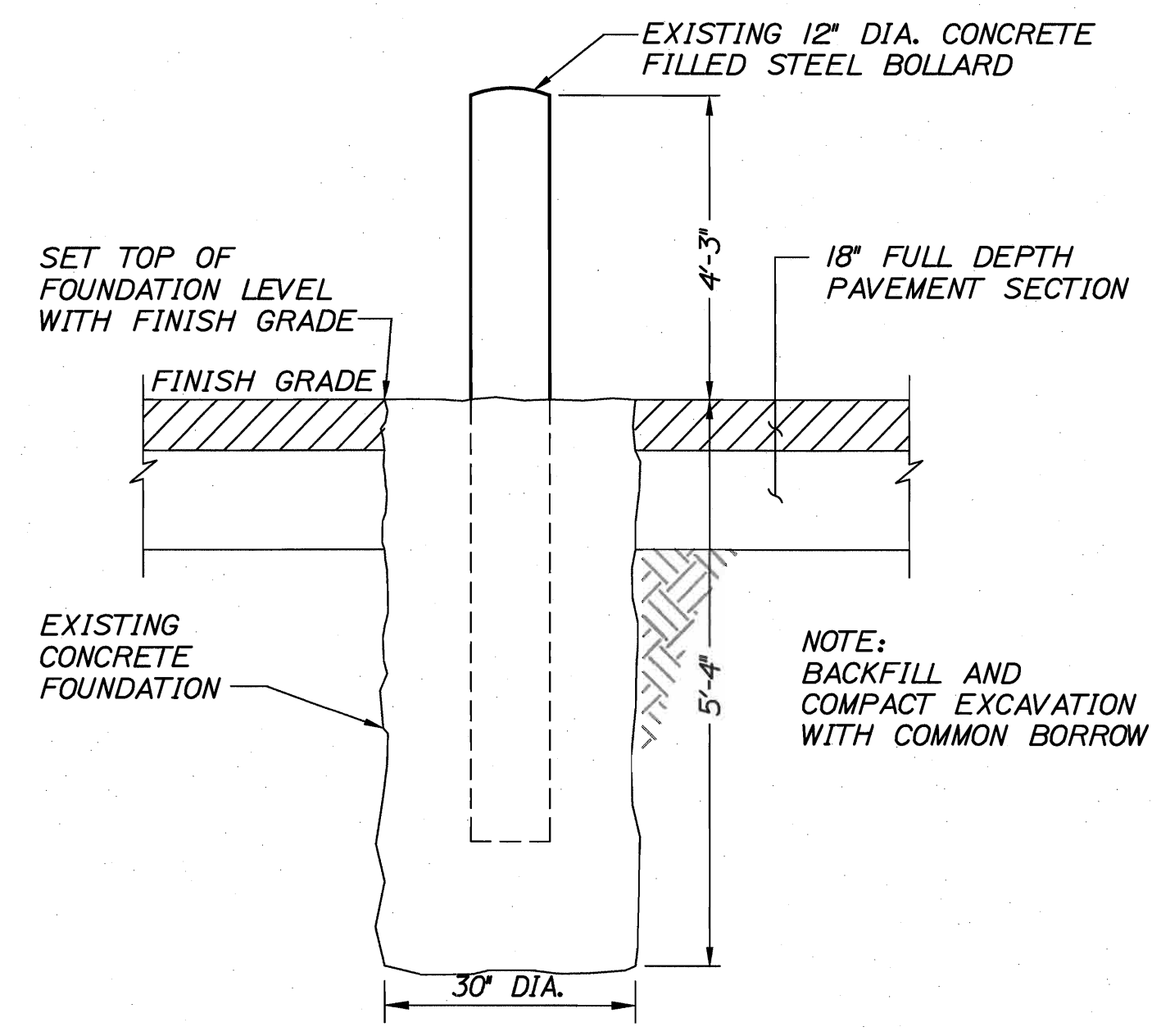
DETAIL A
SCALE: 2"=1'-0"



SECTION A-A
SCALE: 2"=1'-0"

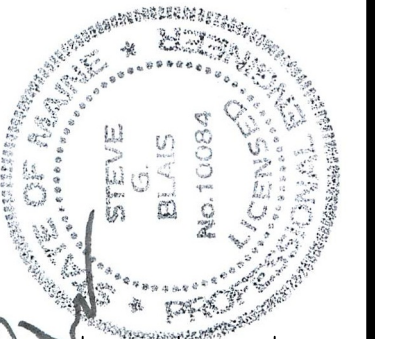


OFFICE BUILDING FOUNDATION SECTION
NTS



OWNER SUPPLIED BOLLARD INSTALLATION DETAIL (BID ALTERNATE NO. 5)
NTS

REEFER PLUG DETAIL AS SHOWN



DATE: 3/24/11
BY: [Signature]
SIGNATURE: [Signature]
P.E. NUMBER: 10084
DATE: 3/24/11

PROJ. MANAGER	DATE	BY	REVISIONS	FIELD CHANGES
CRAIG R. MORIN	3/25/11	JAV-SGB	1	
DESIGN-DETAILED	3/25/11	SGB	2	
CHECKED-REVIEWED			3	
DESIGN-DETAILED			4	
DESIGN-DETAILED				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				

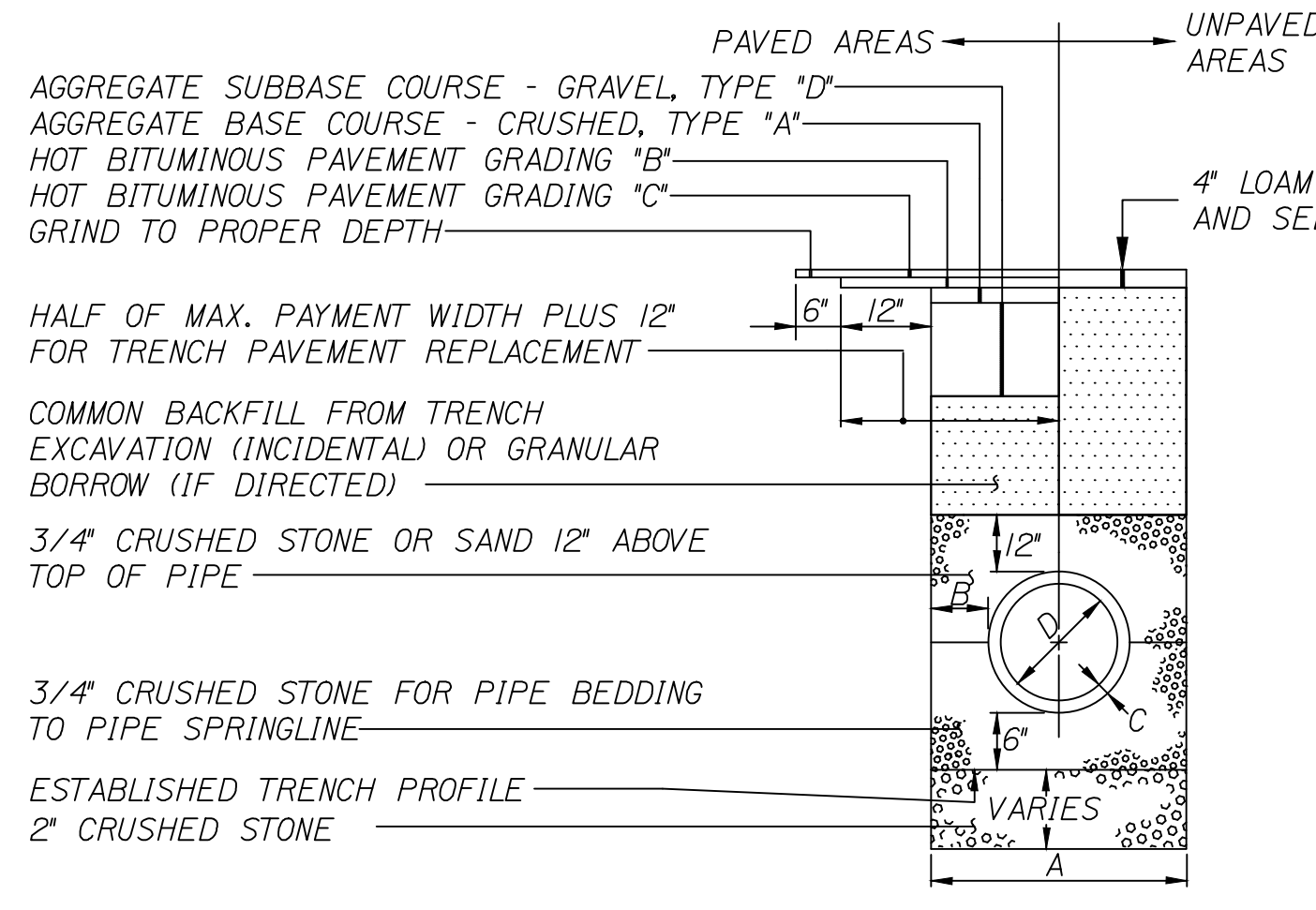
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
MISCELLANEOUS DETAILS II

SHEET NUMBER

C26

29 OF 71

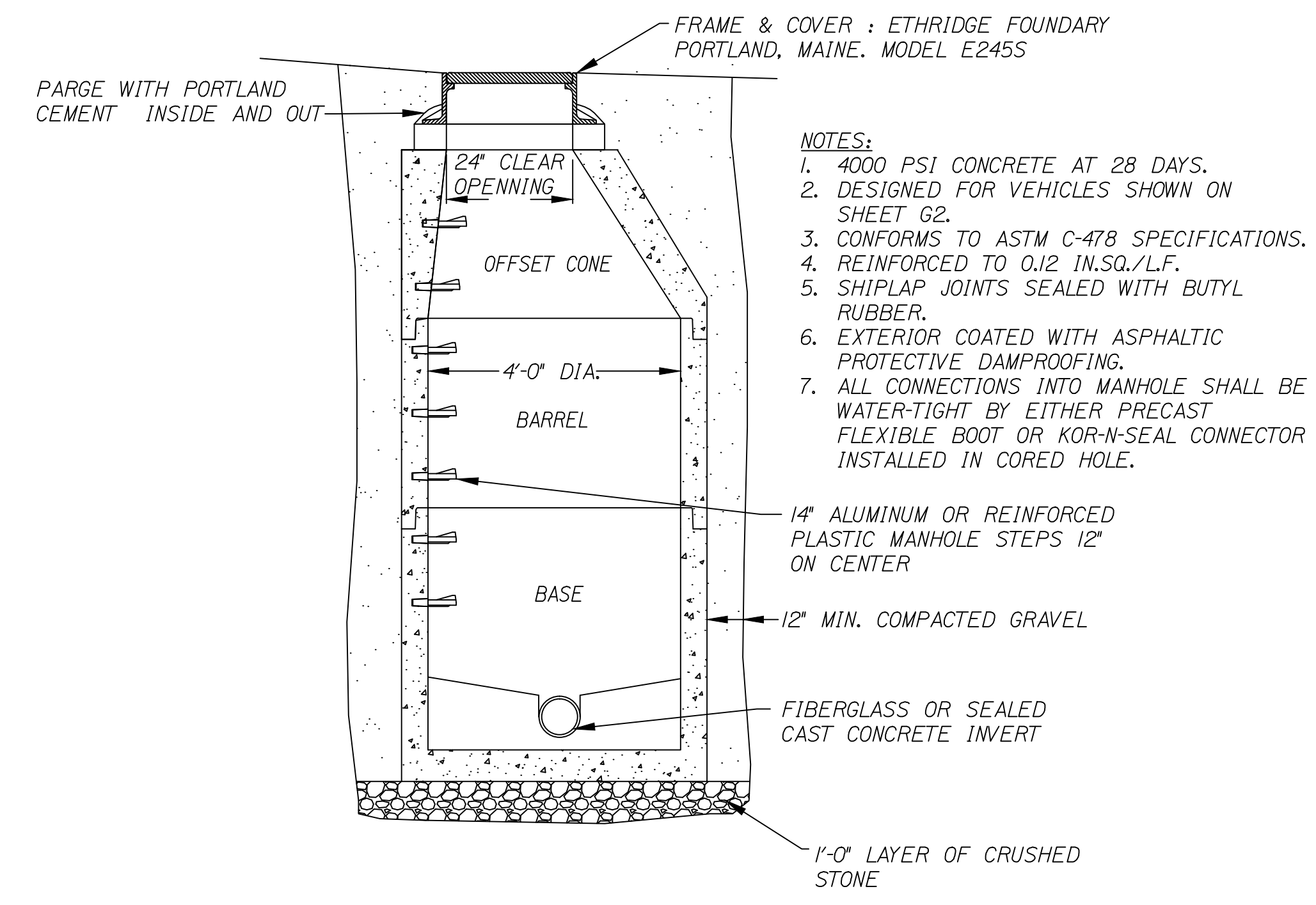
NOTES:
DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE DETERMINED BY STREET CLASSIFICATION.
ANY ALTERNATE TRENCHING OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES.



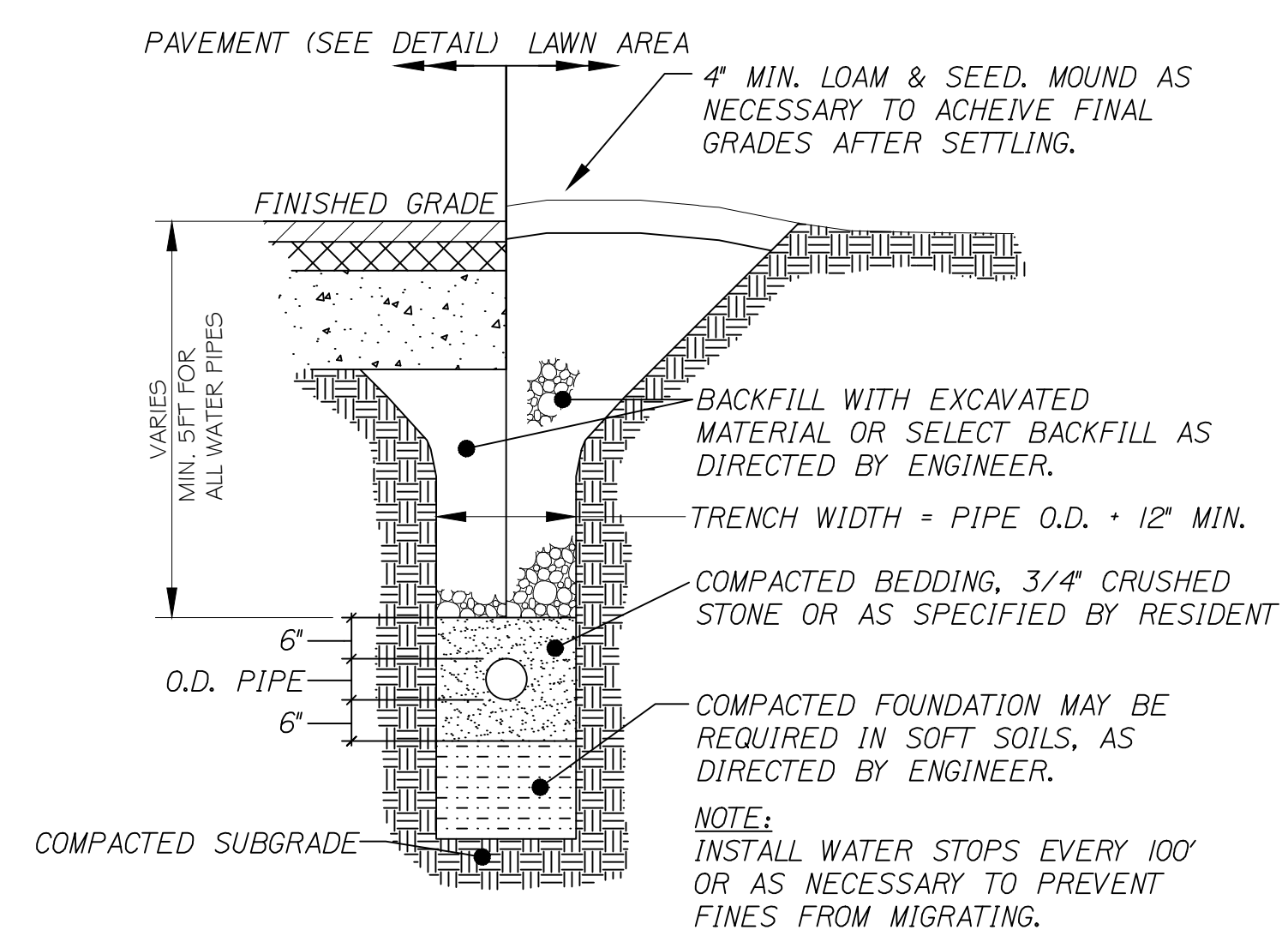
1 TYPICAL PVC PIPE TRENCH INSTALLATION
NOT TO SCALE

NOTES:
1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.
2. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION B SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES DIMENSION B SHALL BE AT LEAST 9\"/>

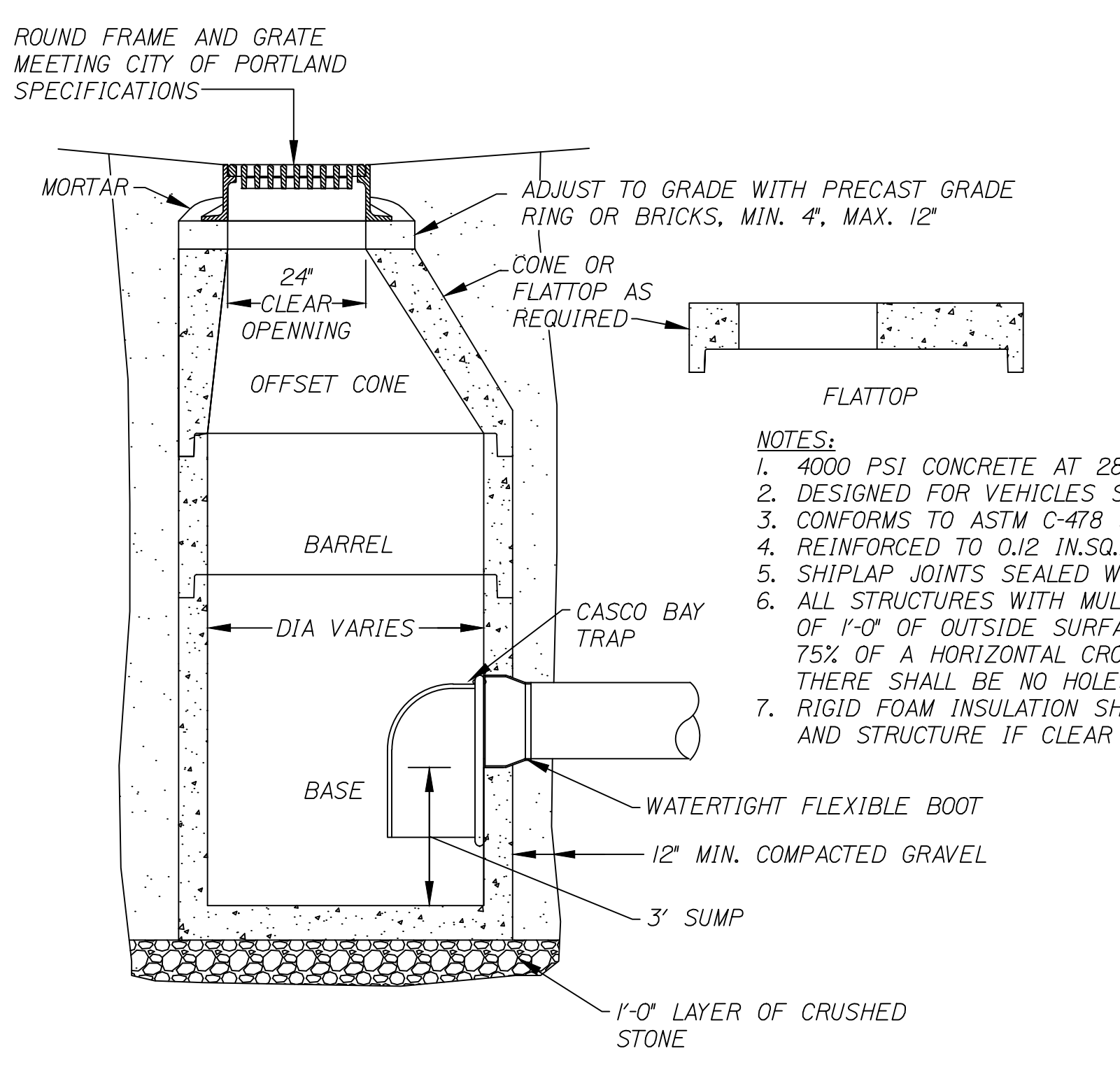
PIPE DIAMETER, D (INCHES)	MAX. TRENCH WIDTH, A (FEET)
4	4.0
6	4.0
8	4.0
10	4.0
12	5.0
15	5.0
18	5.0
21	5.0
24	6.0
27	6.0
30	6.0
36	6.0
42	7.0
48	7.0



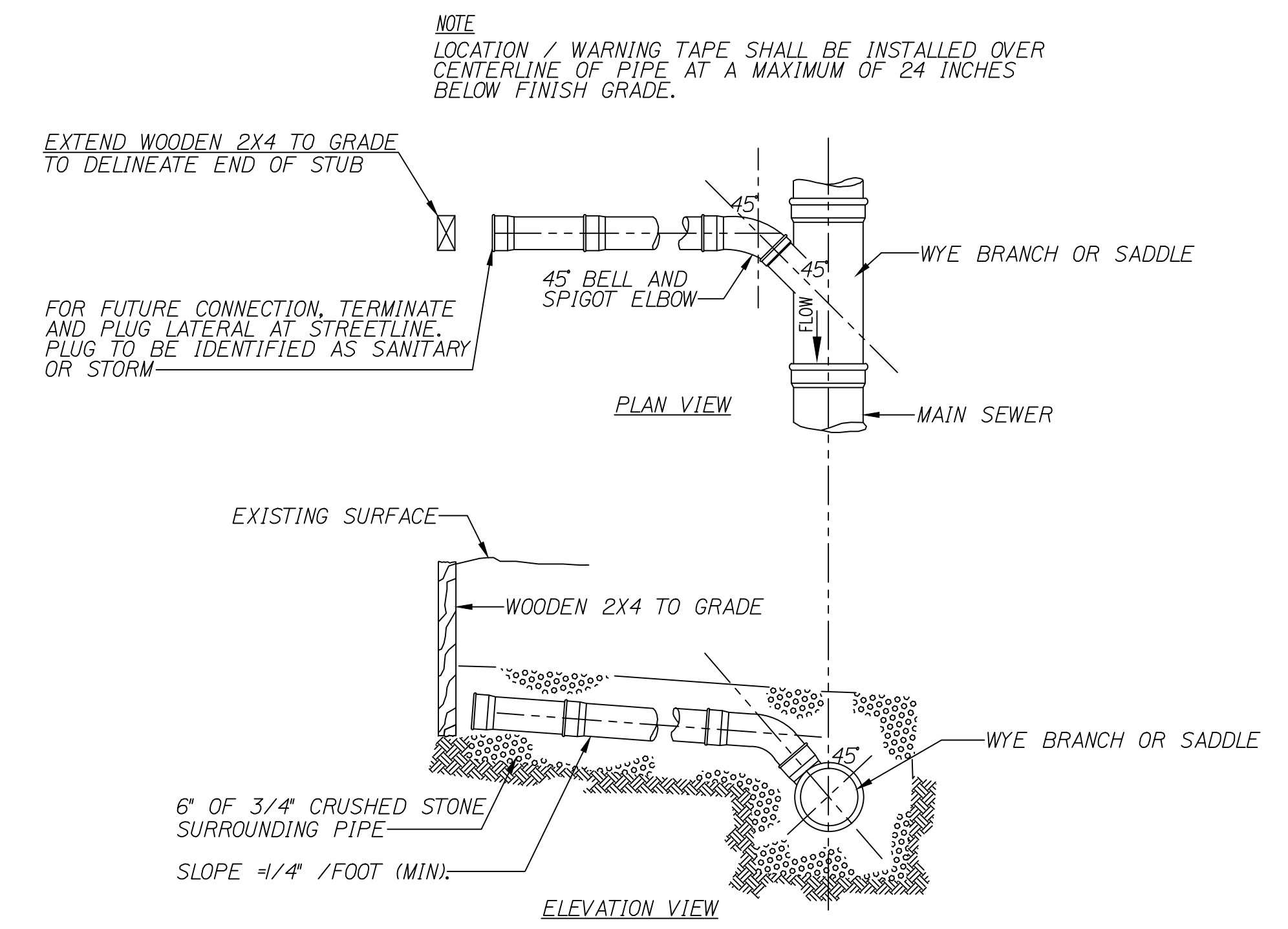
2 PRECAST MANHOLE (SMH)
NOT TO SCALE



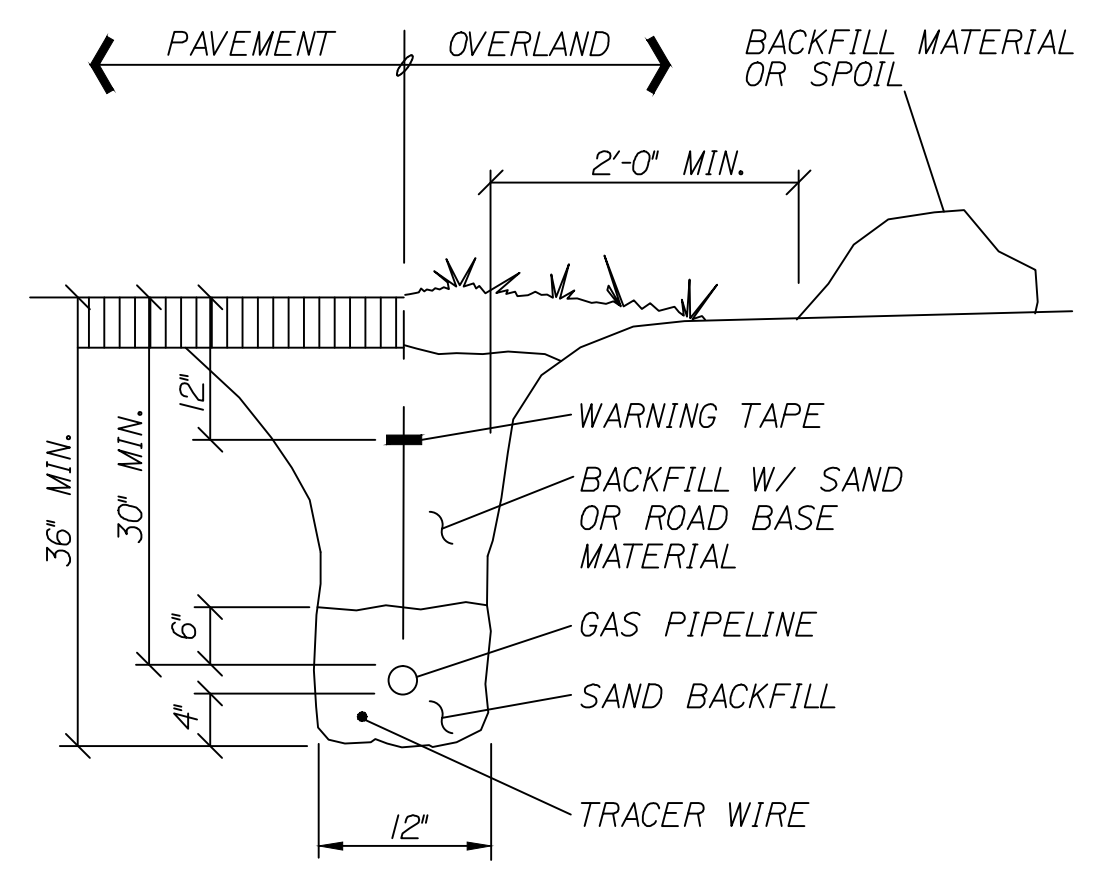
4 UTILITY TRENCH SECTION
NOT TO SCALE



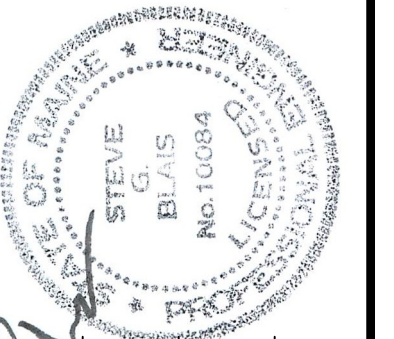
3 CATCH BASIN (CB)
NOT TO SCALE



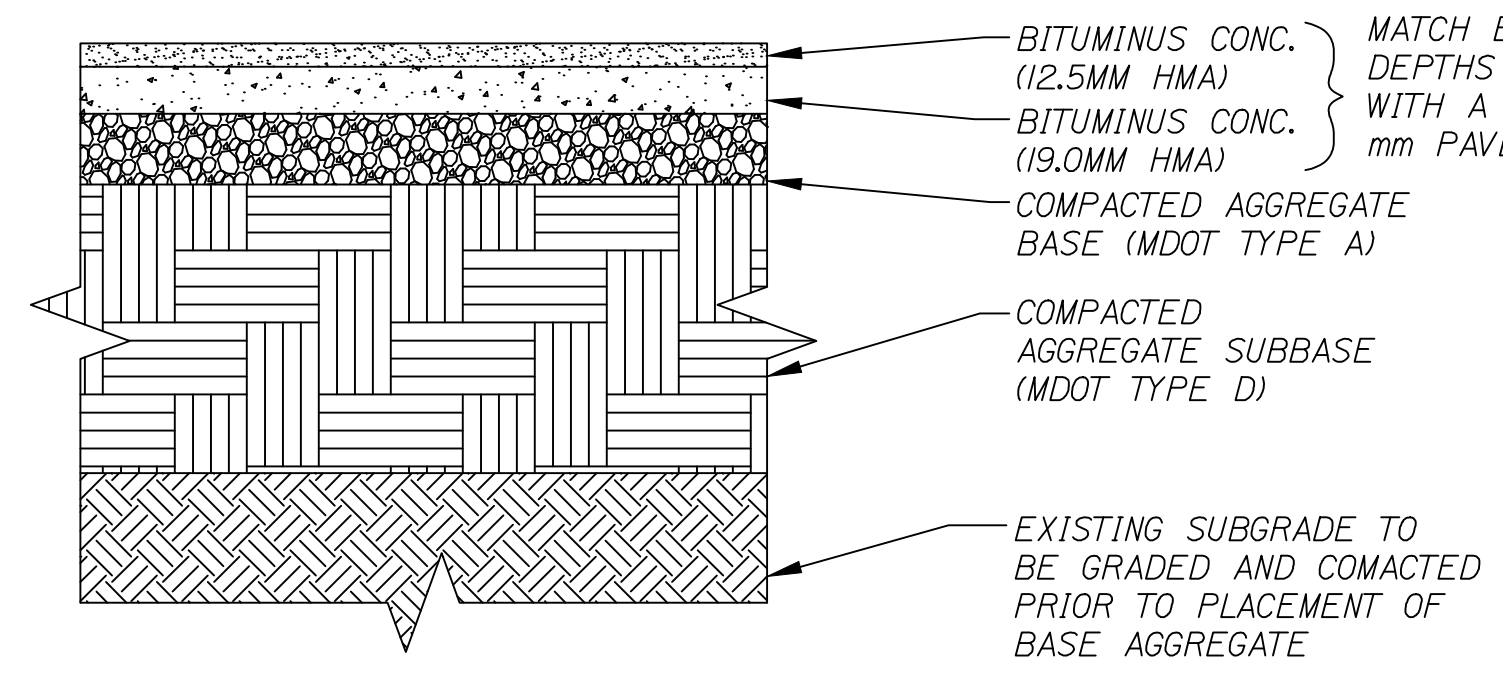
6 SEWER LATERAL INSTALLATION
NOT TO SCALE



5 GAS PIPING TRENCH SECTION
NOT TO SCALE



PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	JAV-SGB	BY	
CHECKED-REVIEWED	SGB	DATE	3/25/11
DESIGN-DETAILED		SIGNATURE	STEVE G. BLAIS
DESIGN-DETAILED		P.E. NUMBER	10084
REVISIONS 1	REVISED PER CITY COMMENTS	DATE	2/24/11
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

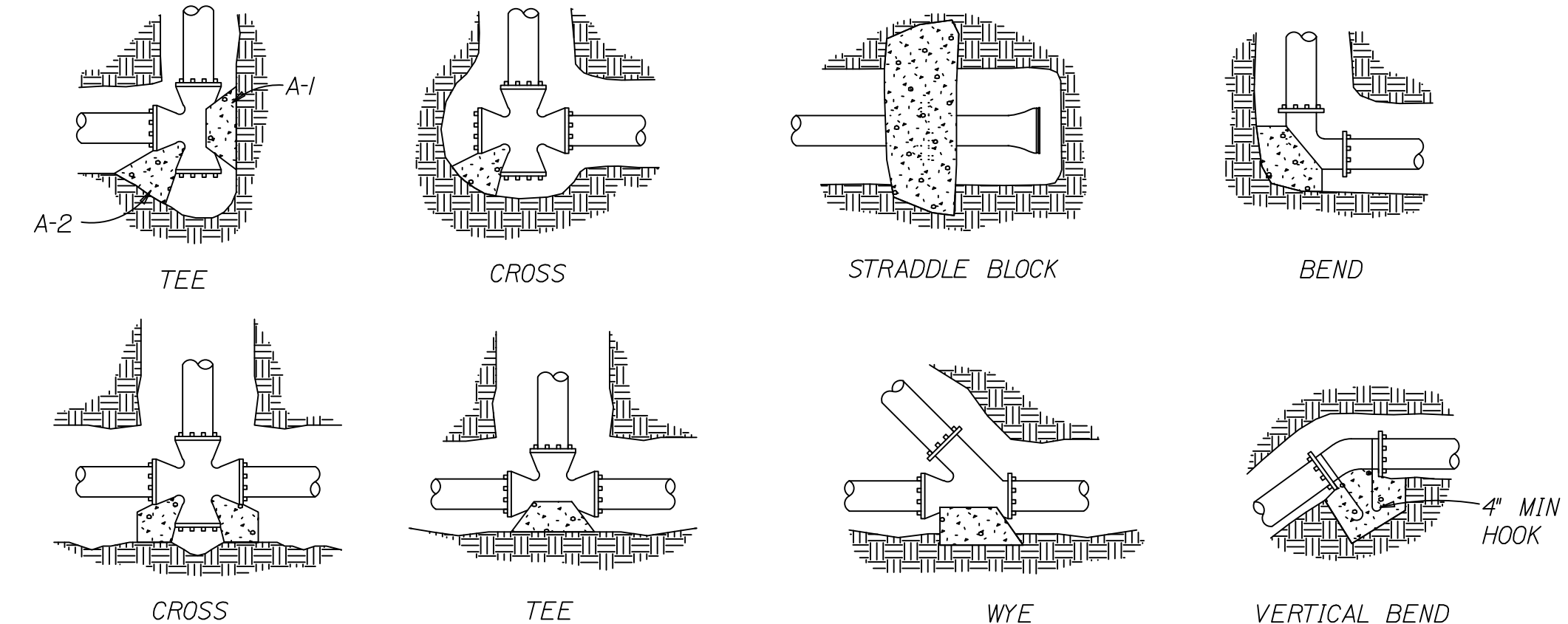


	18" BUILD-UP	30" BUILD-UP	35" BUILD-UP
BITUMINOUS COURSE DEPTH	3"	9"	9"
BASE COURSE DEPTH	3"	7"	10"
SUBBASE COURSE DEPTH	12"	14"	16"
TOTAL DEPTH	18"	30"	35"

1 NEW PAVEMENT DETAIL
NOT TO SCALE

FITTING SIZE	(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET						(VERTICAL) VOLUME OF THRUST BLOCK IN CUBIC YARDS					
	TEE, WYE, DEAD END AND HYDRANT	STRADDLE BLOCK	90D BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45D BEND	22-1/2D BEND	11-1/4D BEND	90D BEND	45D BEND	22-1/2D BEND	11-1/4D BEND
				A-1	A-2							
4	1.0	1.6	1.4	1.9	1.4	1.0	---	---	---	---	---	---
6	2.1	3.7	3.0	4.3	3.0	1.6	1.0	---	1.3	---	---	---
8	3.8	6.5	5.3	7.6	5.4	2.9	1.5	1.0	2.3	1.1	---	---
10	5.9	10.2	8.4	11.8	8.4	4.6	2.4	1.2	3.7	1.8	---	---
12	8.5	14.7	12.0	17.0	12.0	6.6	3.4	1.7	5.5	2.8	1.2	---
14	11.5	---	16.3	23.0	16.3	8.9	4.6	2.3	7.6	3.9	1.7	---
16	15.0	26.1	21.3	30.0	21.3	11.6	6.0	3.0	9.9	5.1	2.3	0.9
18	19.0	---	27.0	38.0	27.0	14.6	7.6	3.8	---	---	---	---
20	23.5	40.8	33.3	47.0	33.3	18.1	9.4	4.7	---	---	---	---
24	34.0	58.8	48.0	68.0	48.0	26.2	13.6	6.8	---	---	---	---

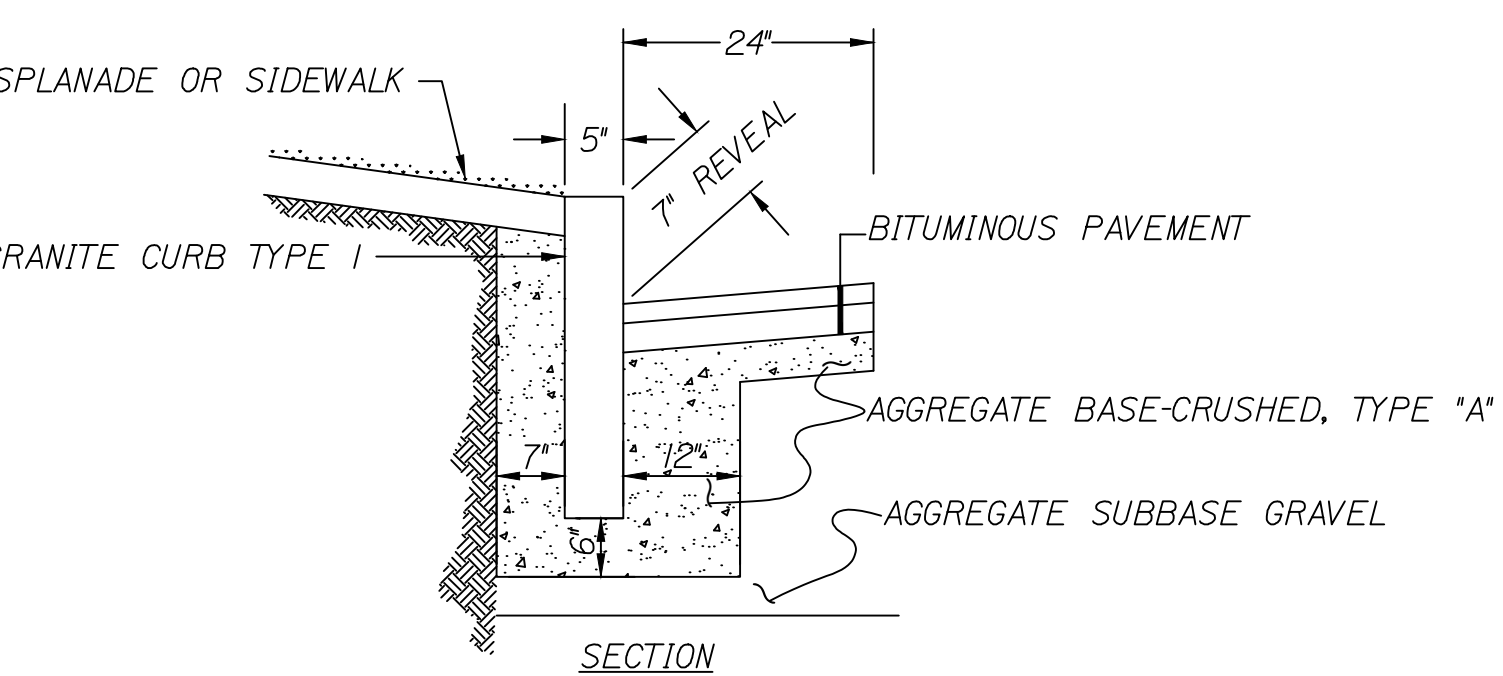
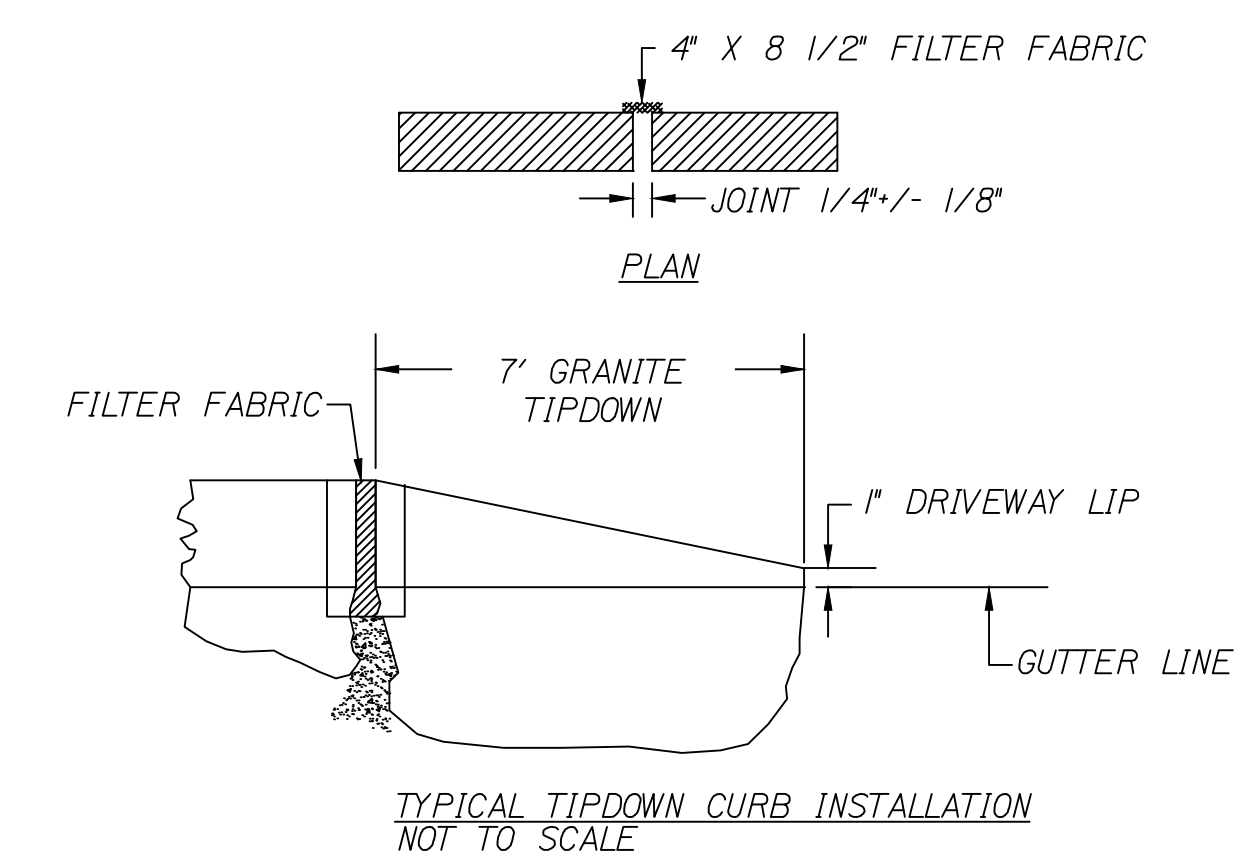
- NOTES:
- ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:
BEARING AREA = (TEST PRESSURE / 150) x (2000 / SOIL BEARING STRESS) x (TABLE VALUE)
 - ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE = 4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:
VOLUME = (TEST PRESSURE / 150) x (TABLE VALUE)



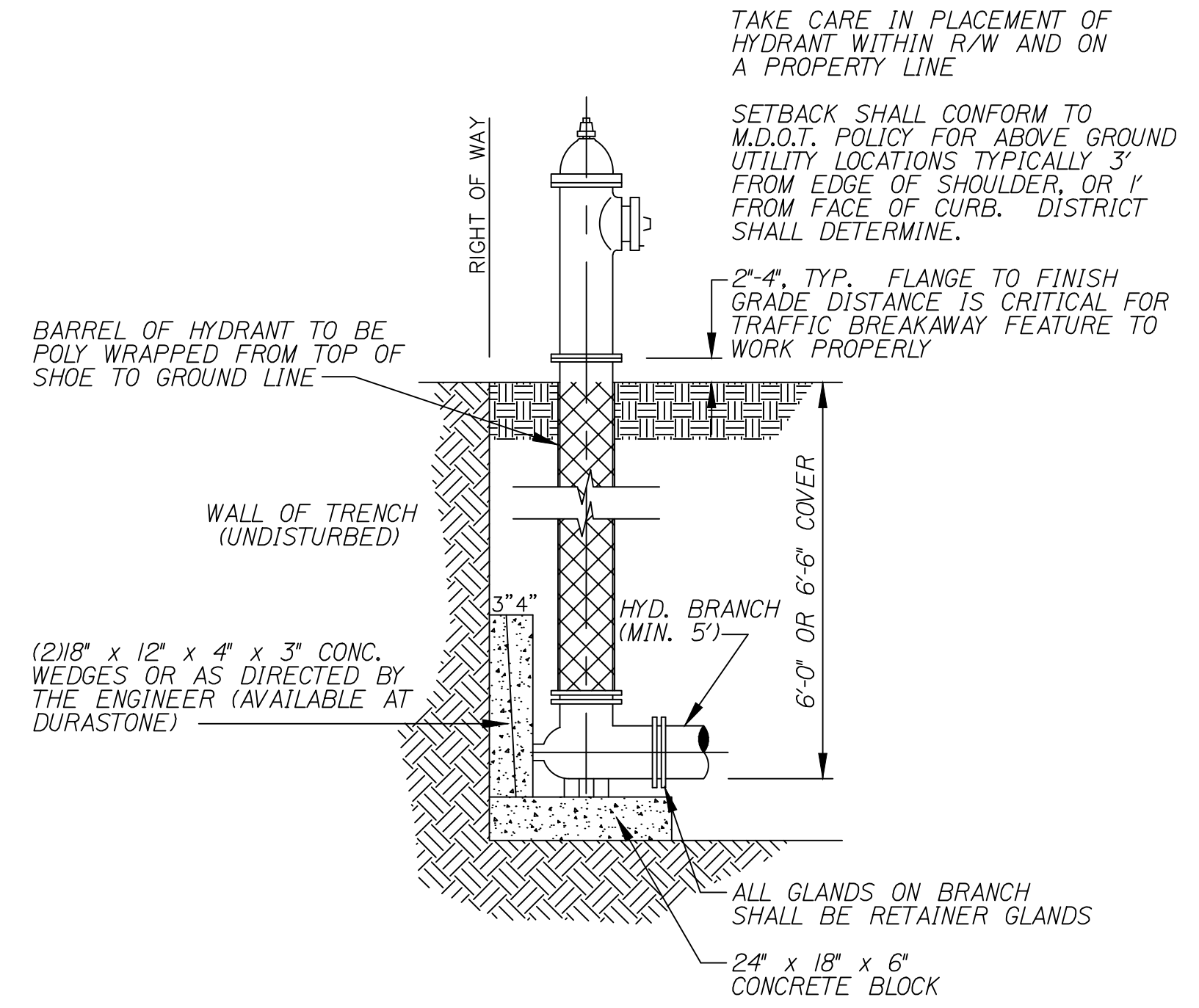
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

- NOTES:
- CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - ALL CONCRETE TO BE CLASS 2400 MINIMUM.
 - INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
 - CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
 - TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH.

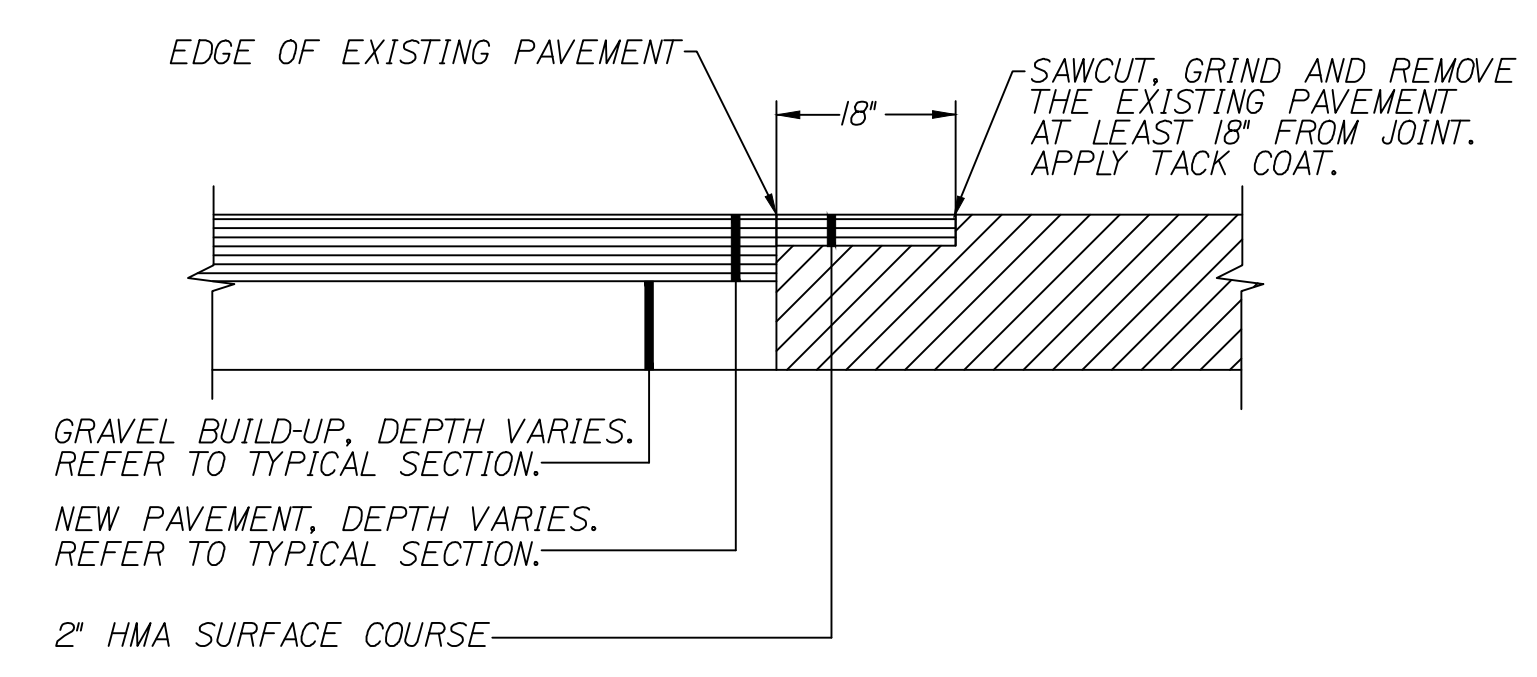
4 THRUST BLOCKING
NOT TO SCALE



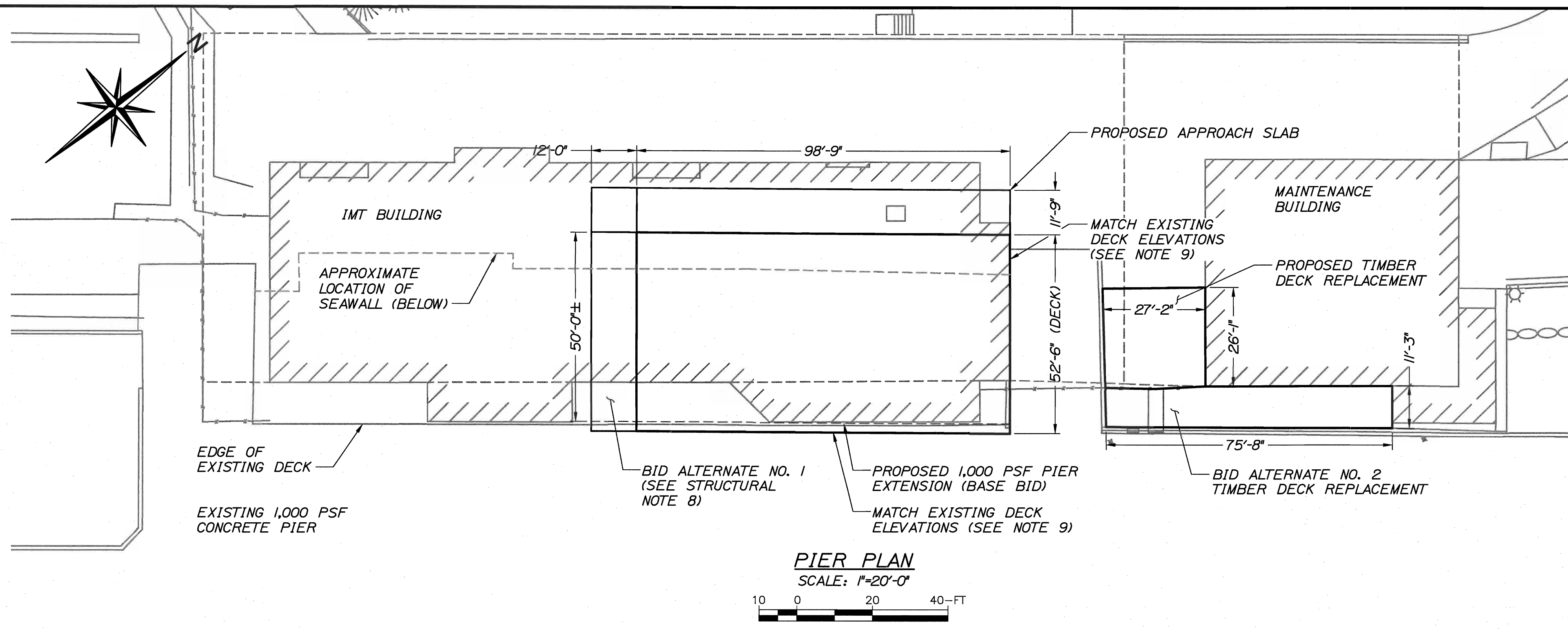
3 INSTALLATION OF NEW GRANITE CURB
NOT TO SCALE



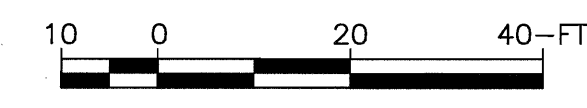
5 FIRE HYDRANT
NOT TO SCALE



6 PAVEMENT BUTT-JOINT
NOT TO SCALE



PIER PLAN
SCALE: 1"=20'-0"



STRUCTURAL NOTES:

1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE STEEL CONSTRUCTION MANUAL OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, UNLESS OTHERWISE DETAILED.
2. ALL STRUCTURAL STEEL SHAPES SHALL BE ASTM A572, GRADE 50 UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STRUCTURAL WELDING CODE, D1.1 AND D3.6, OF THE AMERICAN WELDING SOCIETY (AWS).
4. ALL WELDING TO BE CONTINUOUS SEAL WELDS LEAVING NO CRACKS, VOIDS OR CREVASSES.
5. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE FABRICATION OR DELIVERY OF ANY STEEL (EXCEPT FOR PILES AND CONNECTING PLATES).
6. BOLTED CONNECTIONS BEARING ON STEEL SHALL USE SS WASHERS REGARDLESS OF BOLT MATERIAL.
7. ALL BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A193, TYPE 316 STAINLESS STEEL UNLESS OTHERWISE NOTED, AND SHALL BE FITTED WITH NUTS AND WASHERS CONFORMING WITH ASTM A194. STAINLESS STEEL SHAPES, BARS AND PLATES SHALL BE TYPE 316.
8. BID ALTERNATE NO. 1 IS FOR CONSTRUCTION OF 600-SF OF PIER WITH 141-SF OF APPROACH SLAB, MULTIPLE 12-FT SECTIONS MAY BE AWARDED.
9. CONTRACTOR SHALL FIELD VERIFY DECK ELEVATIONS ALONG EXISTING PIER AND RAMP AT INTERFACE WITH PROPOSED PIER AND SUBMIT THESE TO THE RESIDENT FOR REVIEW PRIOR TO DECK CONSTRUCTION.

TIMBER NOTES:

1. TIMBER SHALL BE SOUTHERN PINE WITH A STRESS RATING OF 1,200-PSI. TIMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE SPECIFICATIONS.
2. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION OF THE AMERICAN FOREST AND PAPER ASSOCIATION.
3. ALL CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM A325, TYPE 1 BOLTS IN 3/16" DIAMETER HOLES AND SHALL HAVE WASHERS ON BOTH ENDS, UNLESS OTHERWISE NOTED.
4. FIELD TREAT ALL CUT AND DRILLED TIMBER SURFACES WITH TWO COATS OF PRESERVATIVE CONTAINING COPPER NAPHTHANATE SOLUTION (MIN. 2% METALLIC SOLUTION) PER SPECIFICATIONS.
5. TIMBER DETERIORATION IN AND ADJACENT TO THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK.

MARINE CONCRETE NOTES:

1. CONCRETE BASIC DESIGN STRESSES SHALL BE:
-FILL FOR PIPE PILES: CLASS "S"
-PRECAST: CLASS "P"
-F_c=6,500 PSI AT 28-DAYS
-F_c=4,500 PSI AT TRANSFER
-CAST-IN-PLACE (UON): CLASS "LP"
2. MARINE CONCRETE SHALL CONTAIN 5.0 GAL/CY OF CALCIUM CORROSION INHIBITOR ADMIXTURE.
3. PRECAST CONCRETE SHALL HAVE A MAXIMUM PERMEABILITY OF 3,000 COULOMBS.
4. PRE-STRESSING STRAND: 270,000 PSI LOW-RELAX STRAND.
5. CLEARANCES FOR REINFORCEMENT SHALL BE:
CAST-IN-PLACE PILE CAPS AND FOOTINGS: 3"
PRECAST DECK PLANKS AND CAST IN PLACE OVERLAY: 3"
6. ALL REINFORCING SHALL BE FULLY SUPPORTED ON NON-METALLIC APPROVED CHAIRS. REINFORCING SHALL NOT BE SUPPORTED ON TIMBER BLOCKS, BRICKS, CONCRETE BLOCKS, ETC.
7. CONSTRUCTION JOINTS SHALL BE MADE ONLY AS SHOWN UNLESS APPROVED OTHERWISE.
8. WET CURING OF CONCRETE IS TO BEGIN WITHIN 30 MINUTES AFTER CONCRETE FINISHING, OR AS SOON AS POSSIBLE WITHOUT DAMAGING FINISHED SURFACE.
9. ALL FORMWORK FOR CONCRETE SHALL BE LEFT IN PLACE AND CONCRETE SURFACES SHALL BE COVERED AND KEPT MOIST FOR A PERIOD OF NOT LESS THAN TWO (2) FULL DAYS AFTER CONCRETE PLACEMENTS.
10. CONTRACTOR SHALL SUBMIT DETAILED REINFORCING DRAWINGS INCLUDING BAR AND BENDING SCHEDULES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DELIVERY OF ANY REINFORCING STEEL.
11. PROVIDE FULL WIDTH STRUCTURAL BEARING PADS AT ALL PRECAST CONCRETE DECK PLANK TO EDGE BEAM BEARING LOCATIONS; AND EDGE BEAM TO PILE CAP BEARING LOCATIONS. PADS TO BE 0.125 INCH THICK PLAIN ELASTOMERIC BEARING PADS WITH DUROMETER HARDNESS OF 60 PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
12. ALL FERROUS METAL HANDLING/LIFTING DEVICES AND EXISTING EMBEDDED METALS/ANCHORS NO LONGER IN USE SHALL BE RECESSED OR REMOVED TO A DEPTH OF ONE INCH BELOW THE SURFACE OF THE CONCRETE AND PATCHED WITH AN APPROVED POLYMER-MODIFIED CEMENTITIOUS MORTAR. DEVICES LOCATED IN AREAS TO BE TOTALLY ENCASED IN CAST-IN-PLACE CONCRETE SHALL BE GALVANIZED. DEVICES LOCATED IN AREAS NOT TO BE ENCASED IN CAST-IN-PLACE CONCRETE SHALL BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.

REINFORCING STEEL NOTES:

1. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 AND SHALL BE EPOXY COATED.
2. SPLICE REINFORCEMENT AS INDICATED:

CLASS "B" SPLICES FOR EPOXY COATED REINFORCEMENT:

BAR SIZE	"OTHER" BARS 5000 PSI	"TOP" BARS 5000 PSI
#4	2'-0"	2'-3"
#5	2'-6"	2'-10"
#6	3'-0"	3'-4"
#7	3'-5"	3'-11"
#8	4'-2"	4'-11"
#9	5'-6"	6'-2"
3. SPLICES SHALL BE LOCATED SUCH THAT NO MORE THAN 50 PERCENT OF THE REINFORCEMENT IS SPLICED AT ANY ONE LOCATION, UNLESS SHOWN OTHERWISE.
4. ALL HOOKS SHALL BE STANDARD ACI 90 OR 180 DEGREE END HOOKS, UNLESS SHOWN OTHERWISE.
5. SPLICE TOP BARS AT CENTER OF SPAN AND BOTTOM BARS AT THE SUPPORT, UNLESS DETAILED OTHERWISE.

STEEL PIPE PILE NOTES:

1. STEEL PIPE PILES SHALL BE IN ACCORDANCE WITH ASTM A252, GR3 MODIFIED WITH MINIMUM YIELD STRENGTH OF 50 KSI. CONCRETE FILL SHALL BE MAINEDOT CLASS "S".
2. PILES SHALL BE COATED WITH FUSION BONDED EPOXY IN ACCORDANCE WITH THE SPECIFICATIONS.
3. PILE SPLICES SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.
4. ANY PORTION OF PILE CRACKED, DEFORMED, OR OTHERWISE DAMAGED BY PILE DRIVING SHALL BE REPLACED.

STEEL COATINGS:

1. FUSION BONDED EPOXY COATING
A. 16" DIA. SUPPORT PILES
 2. HOT DIPPED GALVANIZING*
A. MAINTENANCE BUILDING BRACING
- *PLATES AND ASSEMBLIES ATTACHED TO THE ITEMS LISTED SHALL BE COATED SIMILAR TO THE BASE ELEMENT.

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN
017820.00

STATE OF MAINE
ROLAND A. LAVALLE
No. 6452
PROFESSIONAL ENGINEER

DATE: 3/25/11
SIGNATURE: [Signature]
P.E. NUMBER: 6452

DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-2-DETAILED	DESIGN-3-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/25/11	THME	CRAIG R. MORIN									
	JDM										
	RAL										

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
PIER PLAN AND
GENERAL NOTES

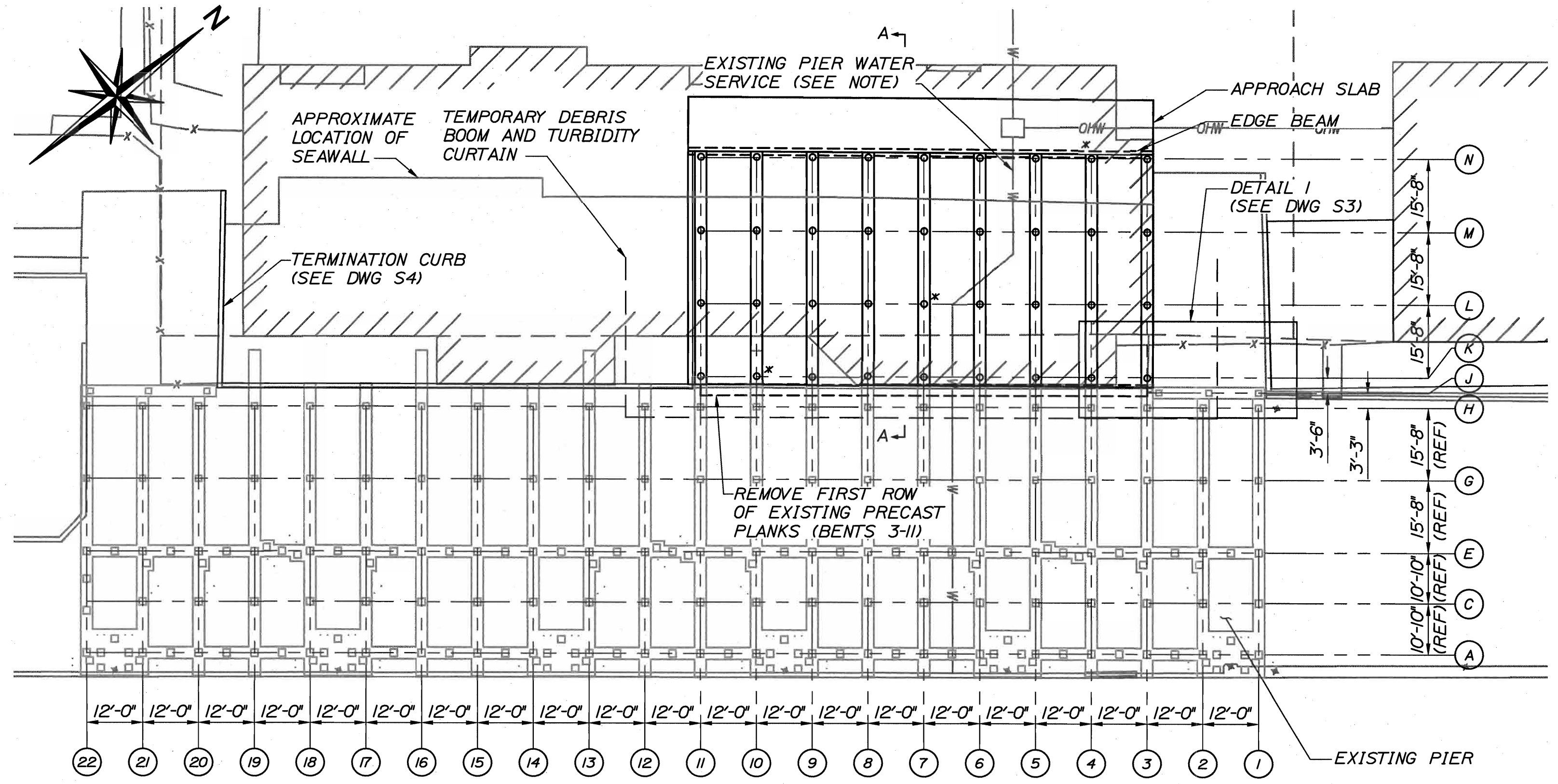
SHEET NUMBER

S1

PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	JDW	BY	HME
CHECKED-REVIEWED	CRM	DATE	3/25/11
DESIGN-DETAILED		BY	RAL
DESIGN-DETAILED		DATE	
REVISIONS 1		BY	
REVISIONS 2		DATE	
REVISIONS 3		BY	
REVISIONS 4		DATE	
FIELD CHANGES			

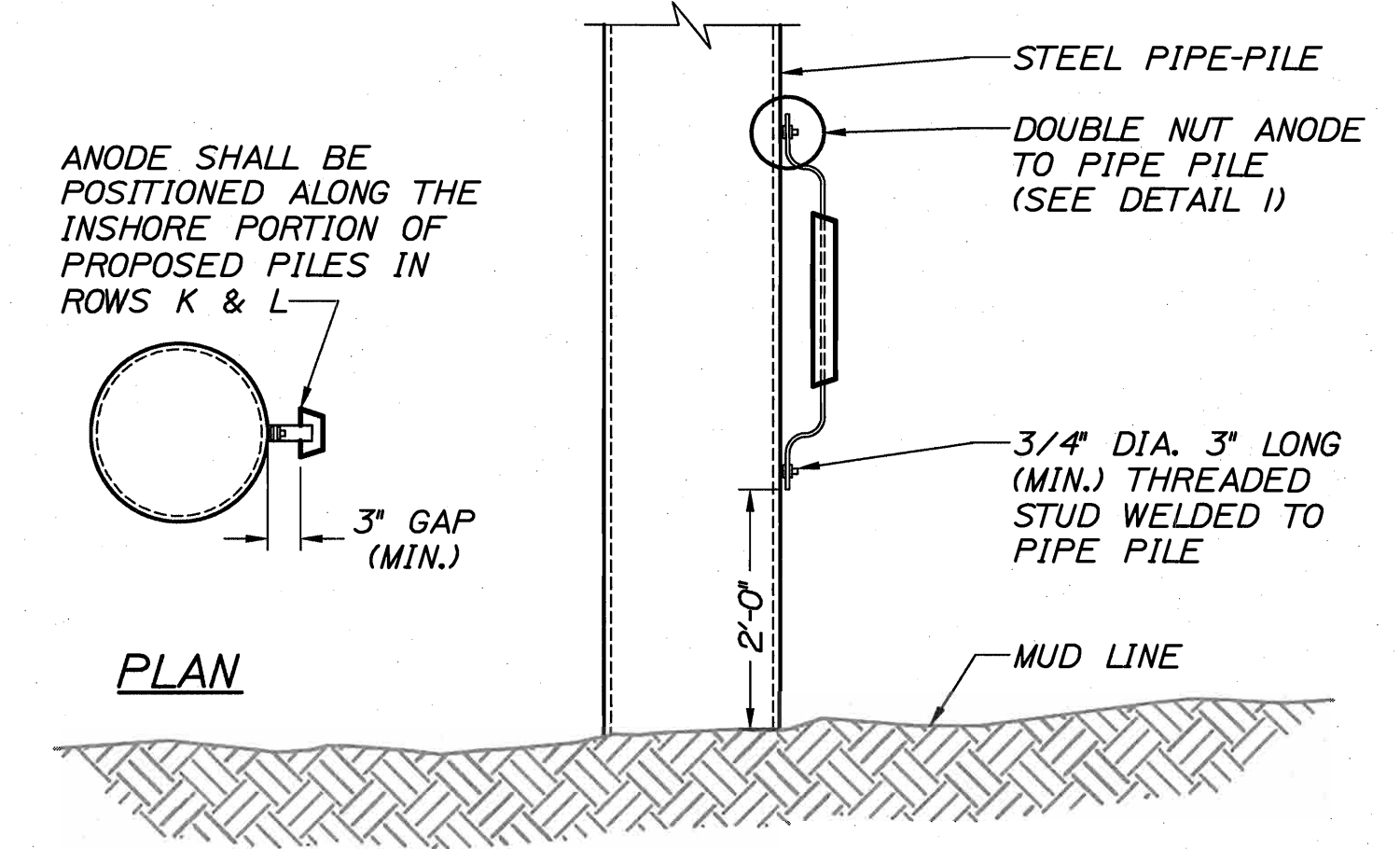
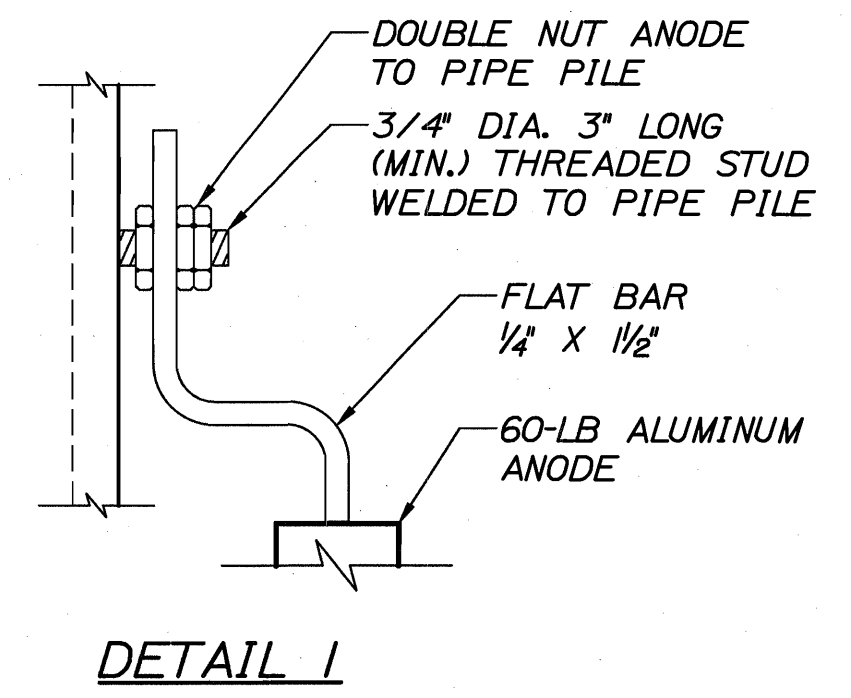
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
**PIER FRAMING
PLAN AND ELEVATION**

SHEET NUMBER
22
32 OF 71



NOTE:
CONTRACTOR TO PROVIDE EMBEDDED CONCRETE INSERTS AND HANGER RODS WITH UTILITY BRACKETS ALONG UNDERSIDE OF PROPOSED PIER TO SUPPORT PIER WATER SERVICE.

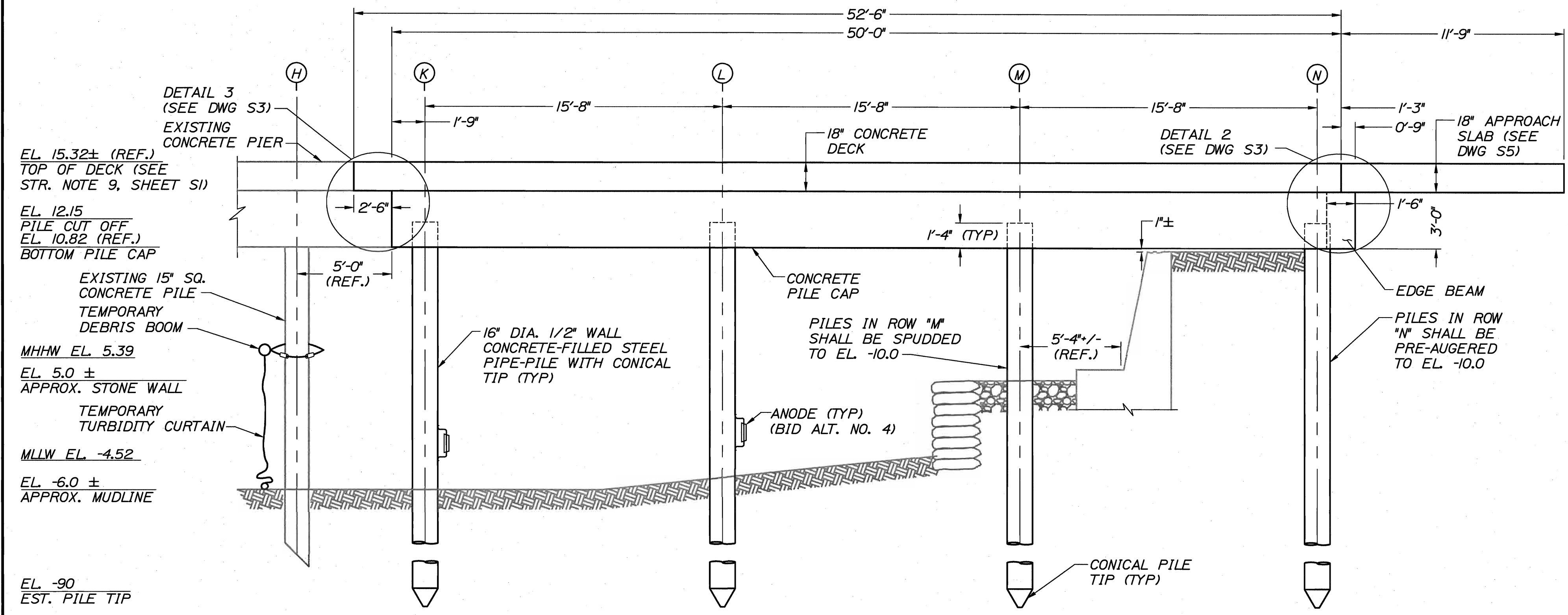
PIER FRAMING PLAN
SCALE: 1"=20'-0"
10 0 20 40-FT



PILE NOTES:

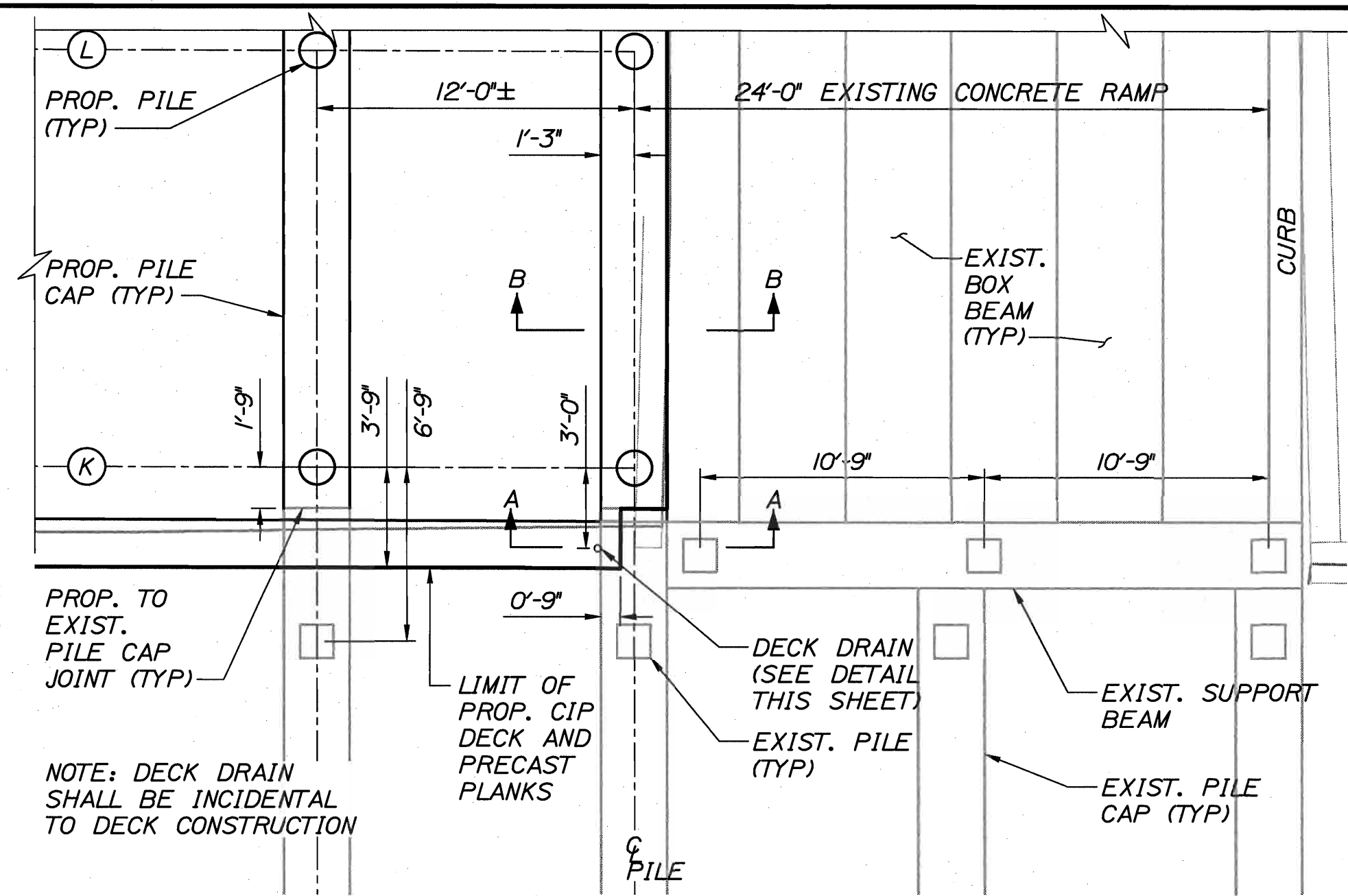
- ULTIMATE CAPACITY OF PILES:
-PILES SHALL BE DRIVEN TO A MINIMUM ULTIMATE CAPACITY OF 560-KIPS
-THE DESIGN PILE LOAD IS 280-KIPS
- PILES SHALL BE 16" DIA. 1/2" WALL STEEL PIPE-PILES WITH CONCRETE FILL. PILES SHALL BE FITTED WITH A CLOSED-ENDED, CONICAL PILE TIP THAT MEETS THE REQUIREMENTS OF SECTION 31 62 IT AND MAINE DOT DETAIL 50(K). PILES SHALL BE FABRICATED OF SEAMLESS OR STRAIGHT-SEAMED MATERIAL. SPIRAL WELDED PIPE PILE IS NOT PERMITTED.
- ESTIMATE OF PILES REQUIRED: 36 @ 103 FT
- PILES SHALL NOT BE OUT OF POSITION SHOWN BY MORE THAN 6 INCHES LONGITUDINALLY ALONG THE PILE CAP, AND 2 INCHES TRANSVERSELY ACROSS THE WIDTH OF PILE CAP.
- THE CONTRACTOR SHALL PERFORM AND SUBMIT WAVE EQUATION ANALYSES FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. THE CONTRACTOR SHALL DETERMINE A STOPPING CRITERIA BASED ON THE WAVE EQUATION ANALYSIS, WHICH SHALL INCLUDE THE BLOWS PER INCH AND THE NUMBER OF ONE INCH INTERVALS AT WHICH PILE INSTALLATION MAY BE TERMINATED.
- THE CONTRACTOR SHALL PERFORM A TOTAL OF THREE (3) DYNAMIC PILE LOAD TESTS WITH SUBSEQUENT 24-HOUR RESTRIKE TO EVALUATE THE PERFORMANCE OF THE HAMMER-PILE SYSTEM; CALCULATE STRESSES IN THE PILE DURING DRIVING; AND CONFIRM THE MINIMUM ULTIMATE CAPACITY OF THE PILE. THE REQUIRED ULTIMATE CAPACITY OF THE PILES IS EQUAL TO THE DESIGN PILE LOAD MULTIPLIED BY 2.0 PER IBC DESIGN.
- DYNAMIC TESTING SHALL BE PERFORMED DURING THE INITIAL DRIVE AND DURING THE 24-HOUR RESTRIKE.
- PILES SHALL BE DRIVEN FROM THE EXISTING PIER, OR A MINIMUM DISTANCE OF 25-FT FROM THE SEAWALL.
- ANODES ARE INCLUDED AS BID ALTERNATE NO. 4.

* INDICATES LOCATIONS WHERE DYNAMIC PILE LOAD TESTS SHALL BE PERFORMED.

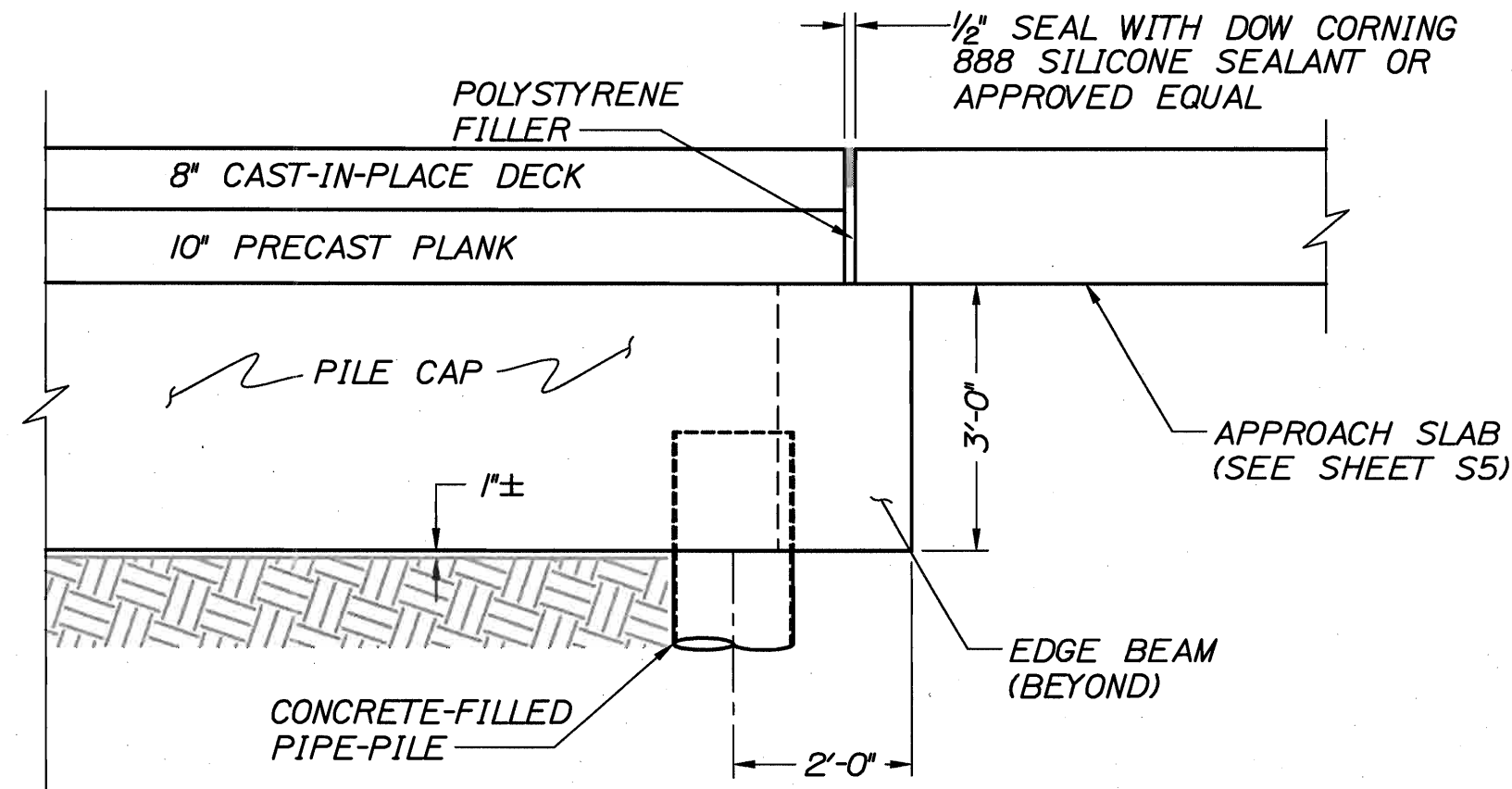


NOTE:
ELEVATIONS SHOWN ARE NGVD29. FOR CONVERSIONS TO MLW AND MLLW SEE SHEET G2.

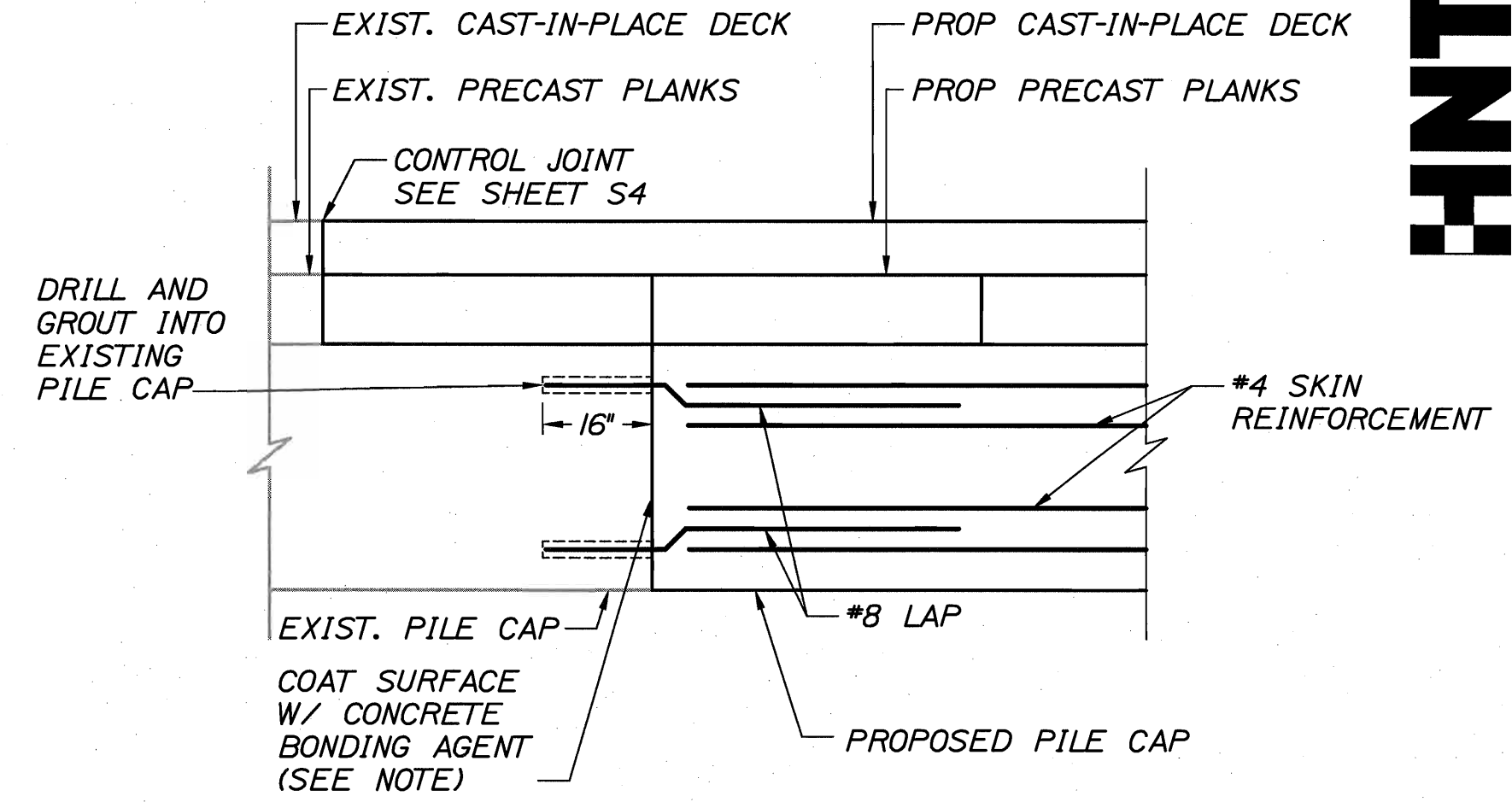
SECTION A-A
SCALE: 1/4"=1'-0"



DETAIL 1
SCALE: 1"=5'



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



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

NOTE: DECK DRAIN SHALL BE INCIDENTAL TO DECK CONSTRUCTION

PROP. TO EXIST. PILE CAP JOINT (TYP)

LIMIT OF PROP. CIP DECK AND PRECAST PLANKS

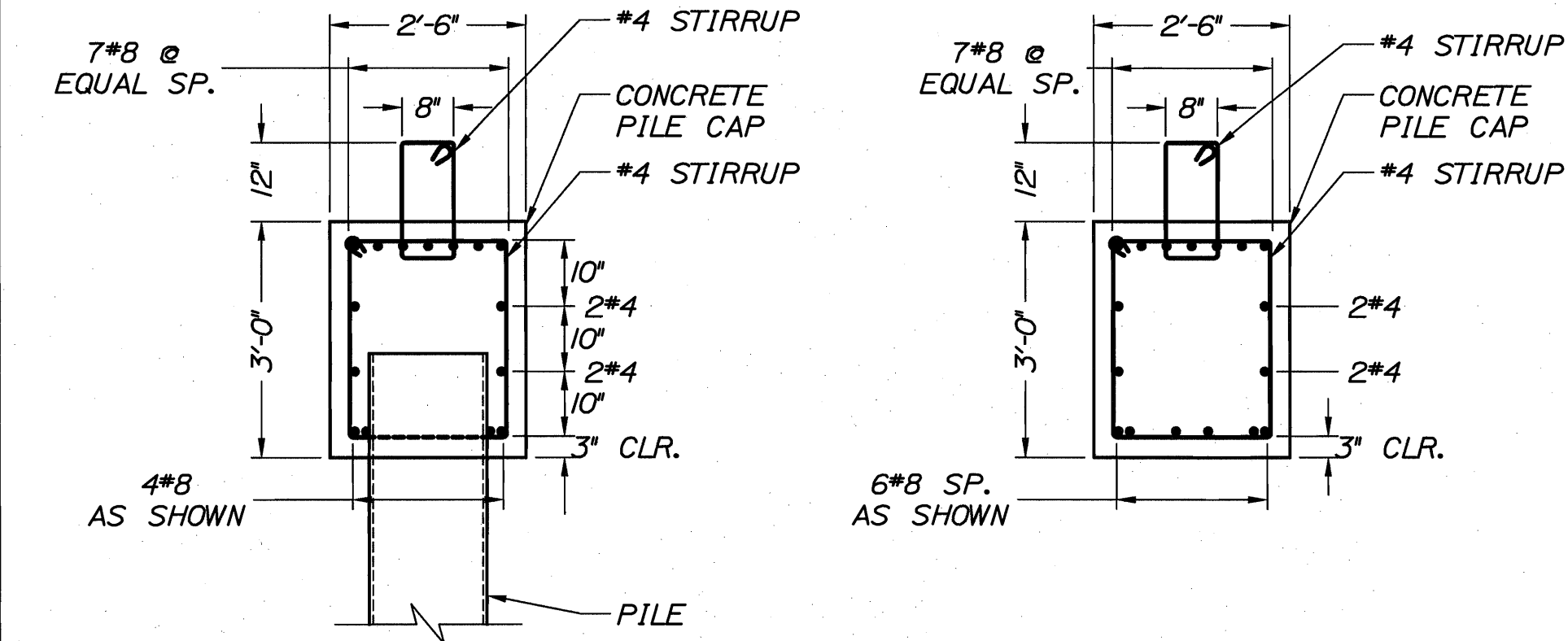
DECK DRAIN (SEE DETAIL THIS SHEET)

EXIST. PILE CAP (TYP)

EXIST. SUPPORT BEAM

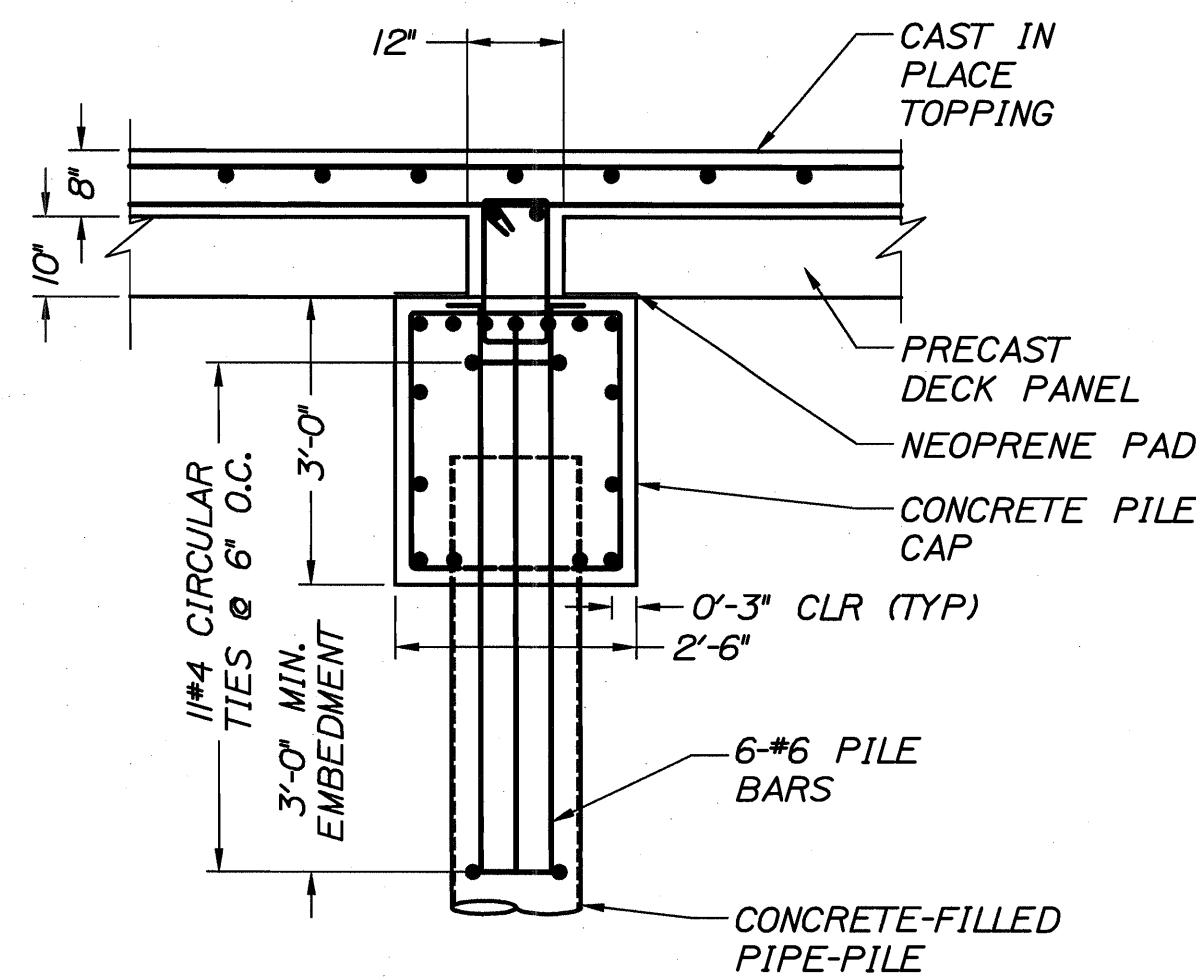
EXIST. PILE CAP (TYP)

NOTE: EXISTING CONCRETE SURFACES TO RECEIVE CONCRETE SHALL BE ROUGHENED TO A MINIMUM AMPLITUDE OF 1/4" AND COATED WITH A PRODUCT LISTED ON THE MAINTAINED PRE-QUALIFIED LIST OF CONCRETE BONDING AGENTS.

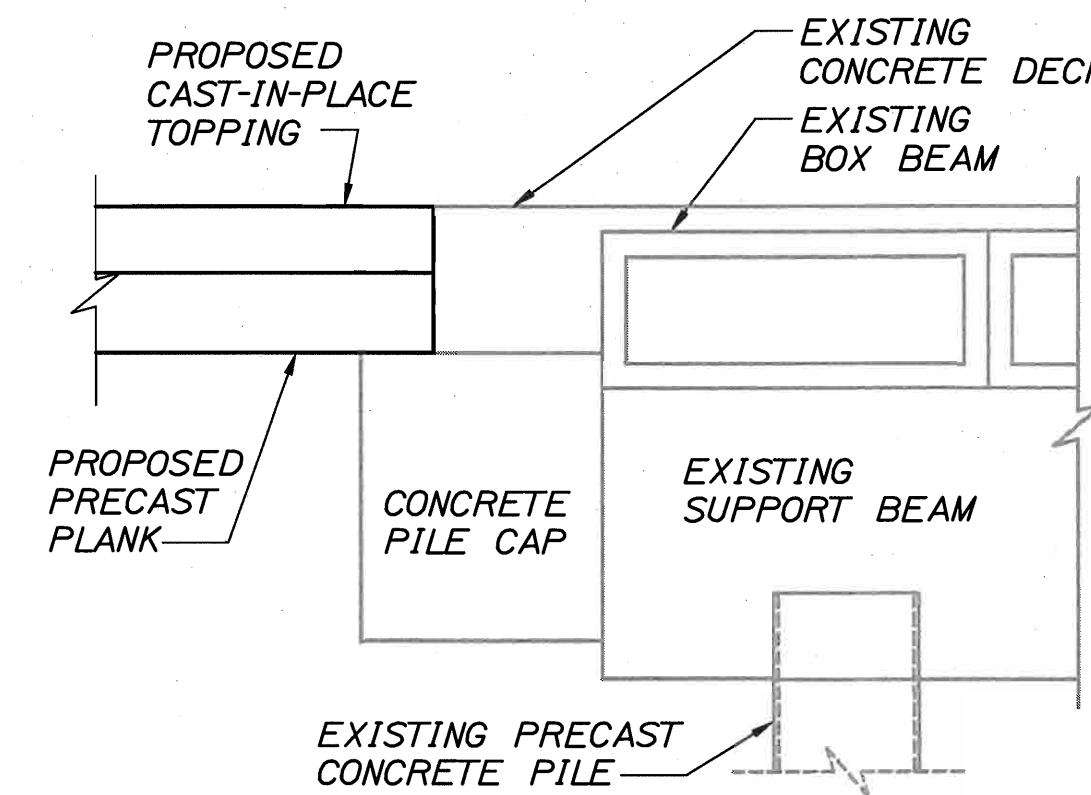


SECTION C-C
SCALE: 1/2"=1'-0"

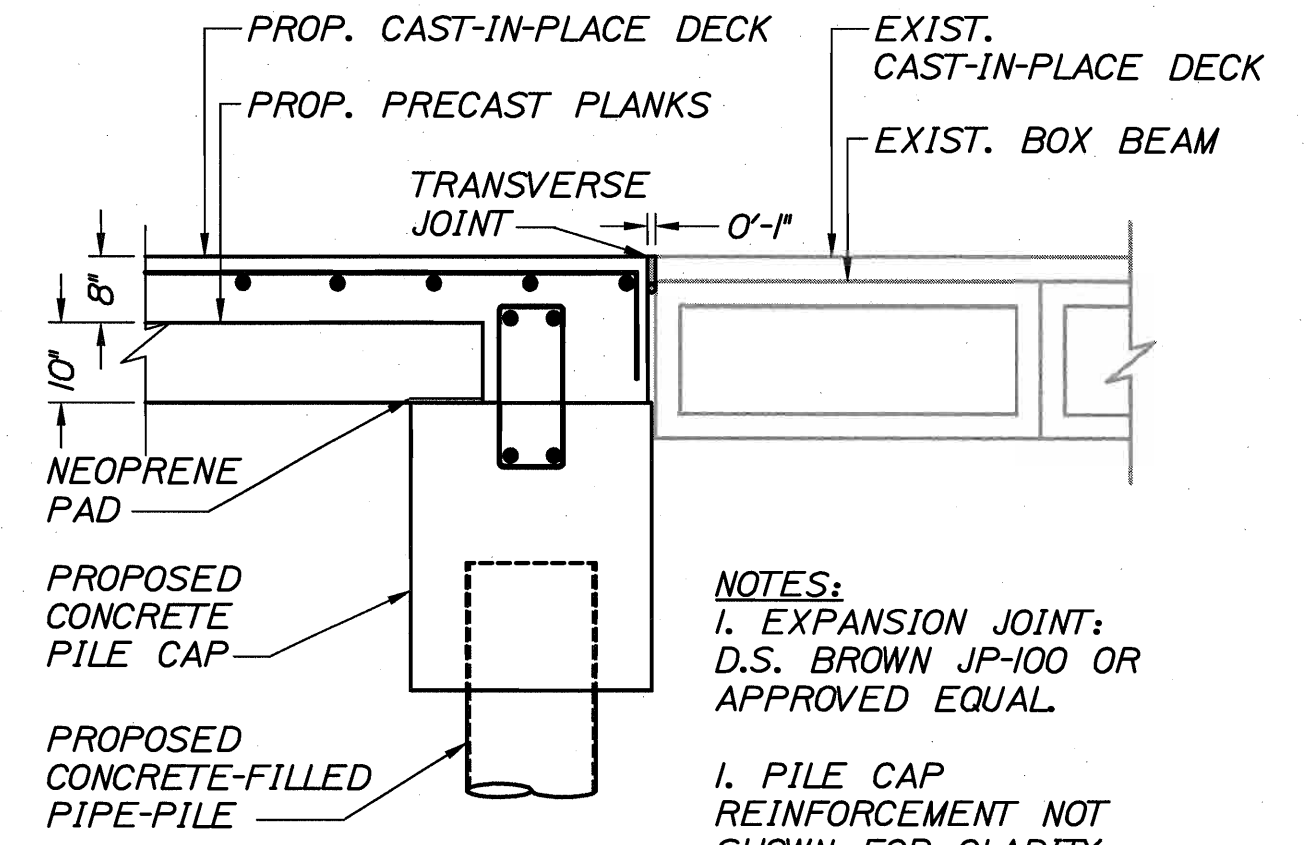
SECTION D-D
SCALE: 1/2"=1'-0"



TYPICAL SECTION AT PILE
SCALE: 1/2"=1'-0"

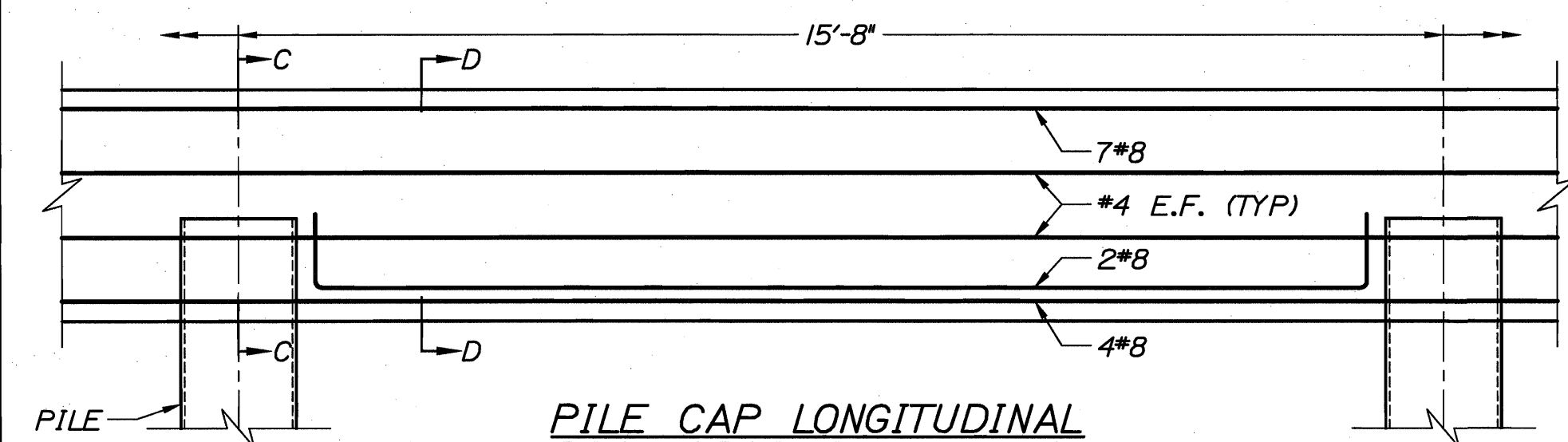


SECTION A-A
SCALE: 1/2"=1'-0"

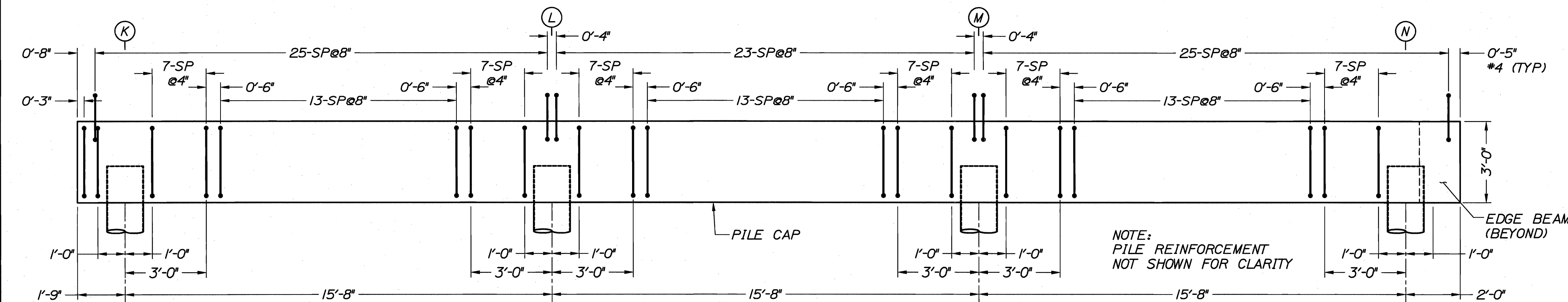


SECTION B-B
SCALE: 1/2"=1'-0"

NOTES:
1. EXPANSION JOINT: D.S. BROWN JP-100 OR APPROVED EQUAL.
1. PILE CAP REINFORCEMENT NOT SHOWN FOR CLARITY

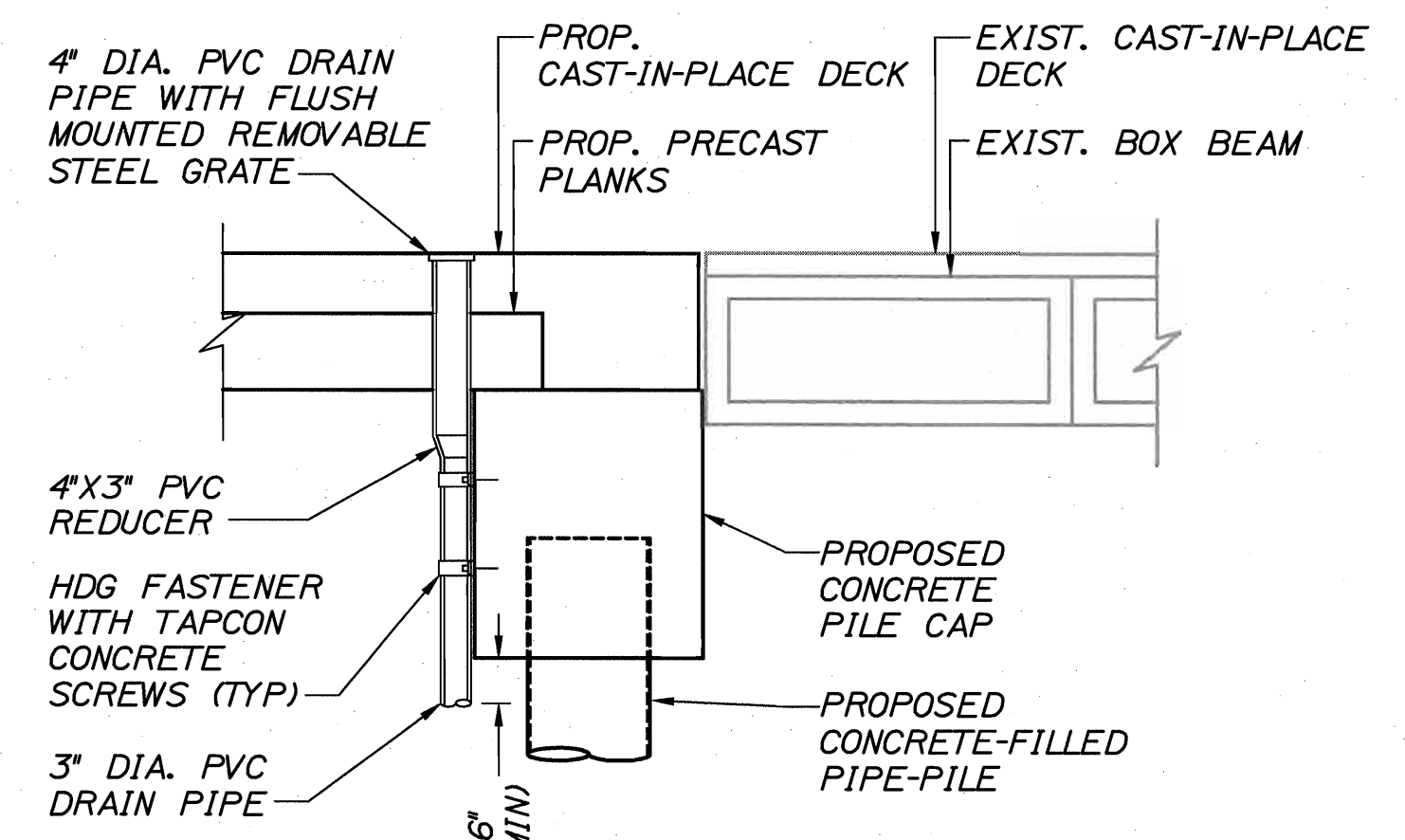


PILE CAP LONGITUDINAL REINFORCEMENT DETAIL
SCALE: 1/2"=1'-0"



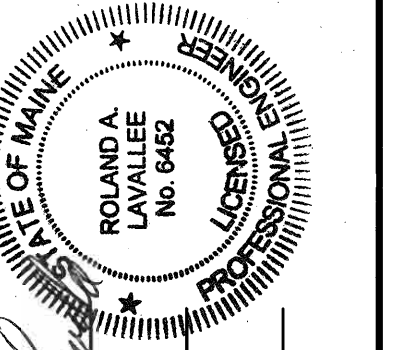
BENT REINFORCEMENT DETAIL
SCALE: 3/8"=1'-0"

NOTE: PILE REINFORCEMENT NOT SHOWN FOR CLARITY

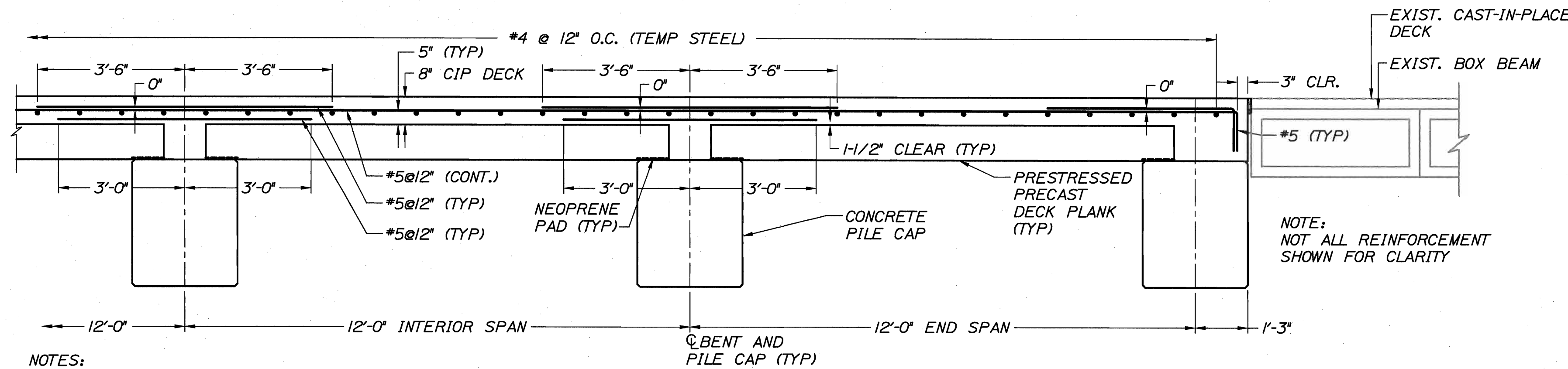


DECK DRAIN DETAIL
SCALE: 1/2"=1'-0"

NOTES:
1. DECK AND PILE CAP REINFORCEMENT NOT SHOWN FOR CLARITY

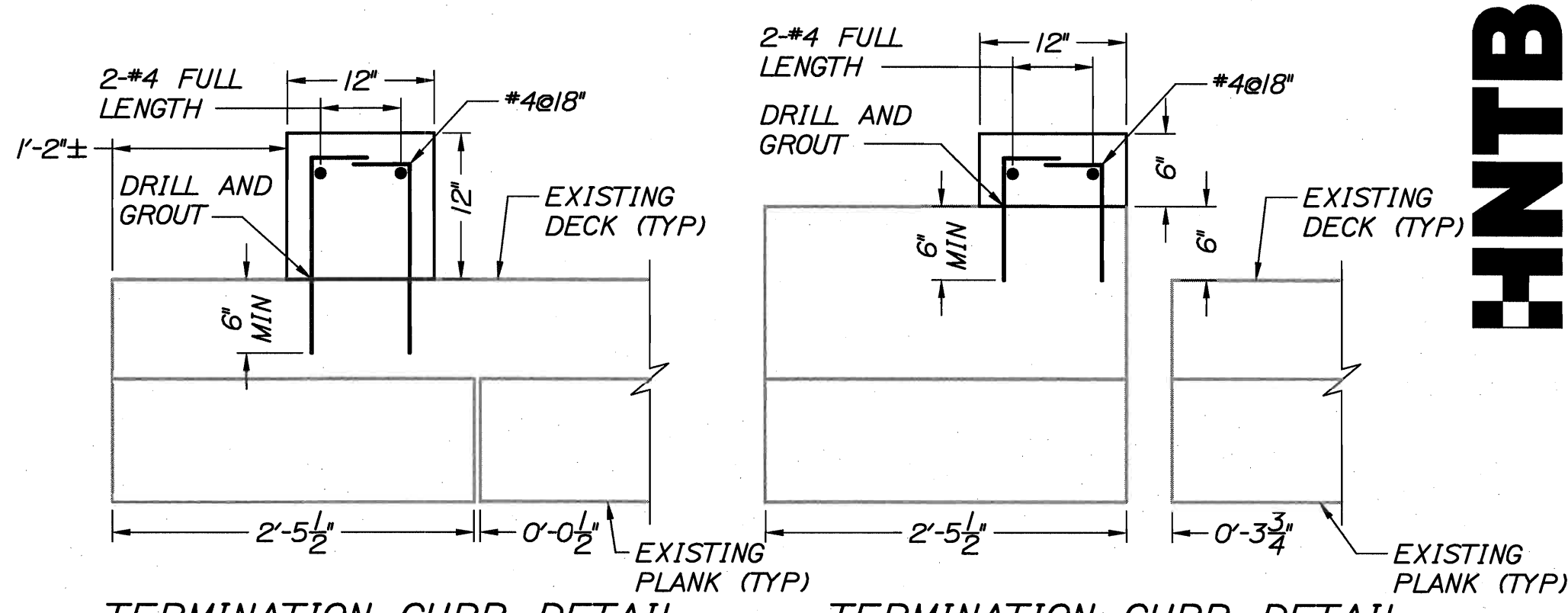


DATE	BY	DATE	REVISION
3/25/11	HME	3/25/11	DESIGN-DETAILED
	RAJ		CHECKED-REVIEWED
	RAJ		DESIGN-DETAILED
			DESIGN-DETAILED
			REVISIONS 1
			REVISIONS 2
			REVISIONS 3
			REVISIONS 4
			FIELD CHANGES



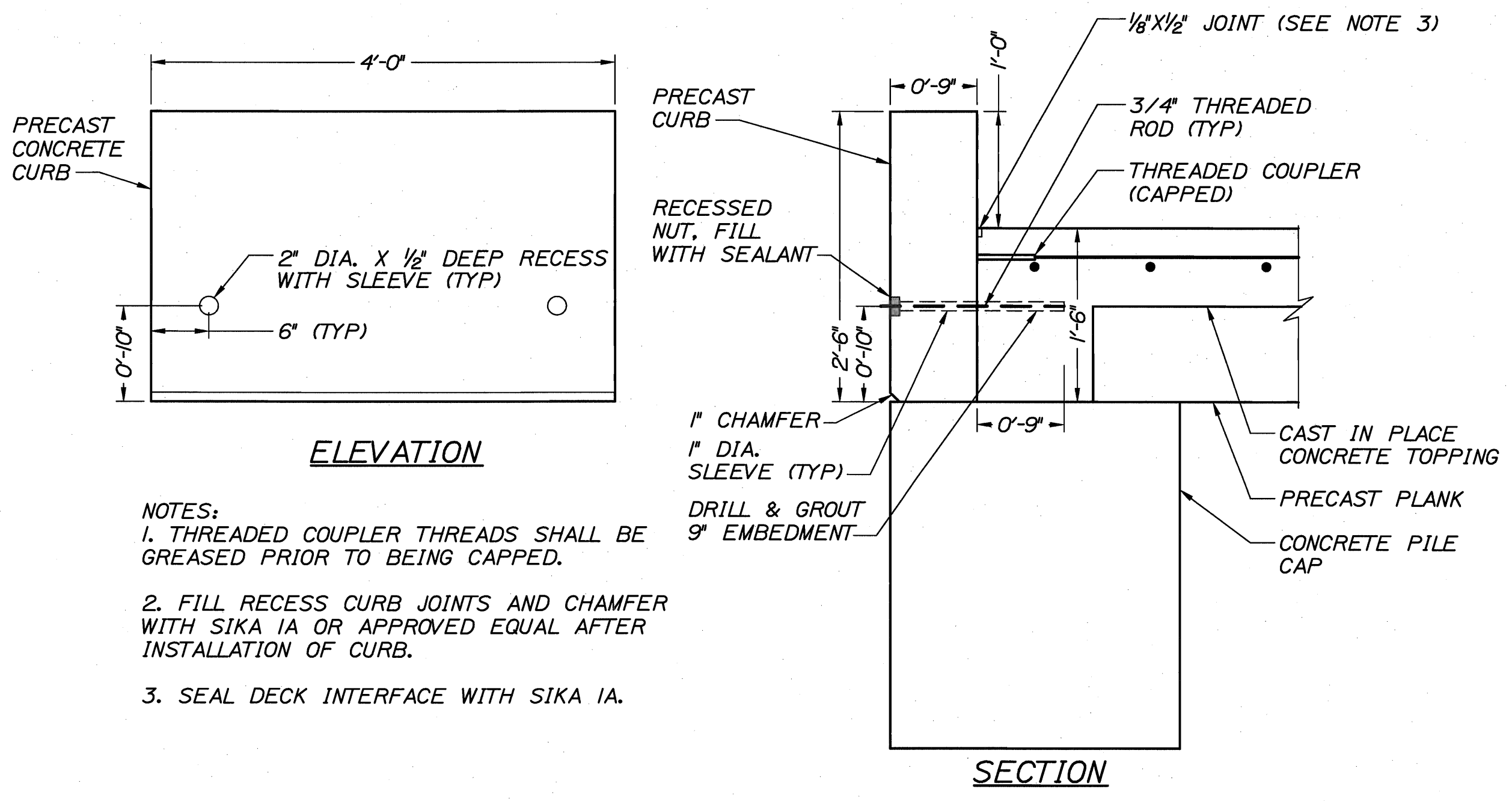
- NOTES:
1. CONCRETE FOR CAST-IN-PLACE DECK SHALL BE CLASS LP.
 2. REINFORCING SHALL BE GRADE 60 EPOXY COATED AND CONFORM TO ASTM A615 AND A775.
 3. CHAMFER ALL EDGES 1" @ 45-DEGREES EXCEPT WHERE NOTED.
 4. MINIMUM CONCRETE COVERAGE OVER REINFORCING SHALL BE 3".
 5. SPlicing OF REINFORCEMENT: #5 BARS-2'-10", #4 BARS-2'-3".
 6. THREADED INSERT SHALL HAVE A SAFE WORKING LOAD IN TENSION OF 1,000-LBS.

TYPICAL DECK SECTION
SCALE: 1/2"=1'-0"



TERMINATION CURB DETAIL BETWEEN BENTS 13-16
SCALE: 1"=1'-0"

TERMINATION CURB DETAIL BETWEEN BENTS 11-13 & 16-19 (±)
SCALE: 1"=1'-0"

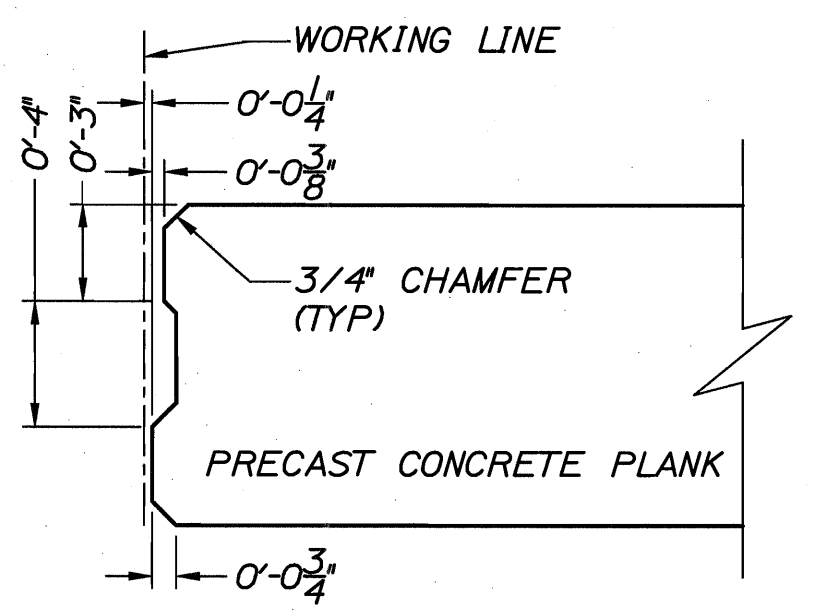


ELEVATION

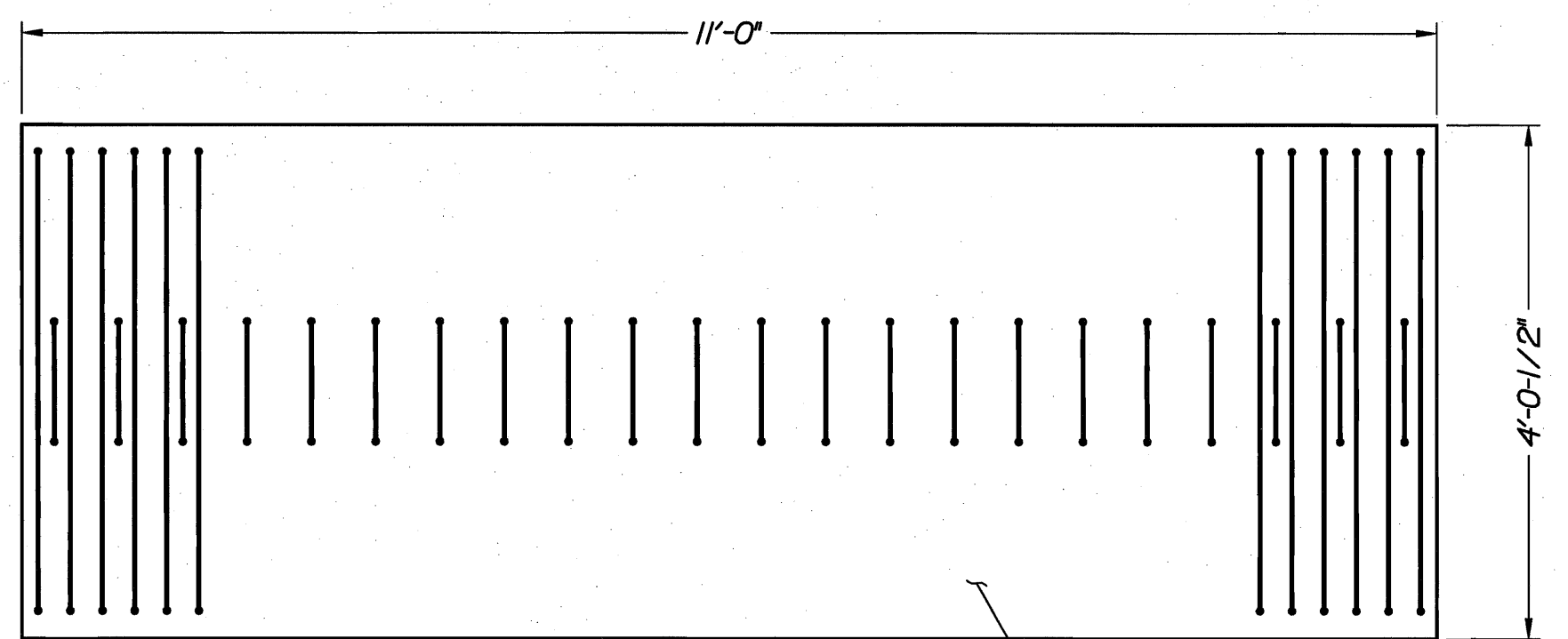
SECTION

- NOTES:
1. THREADED COUPLER THREADS SHALL BE GREASED PRIOR TO BEING CAPPED.
 2. FILL RECESS CURB JOINTS AND CHAMFER WITH SIKA IA OR APPROVED EQUAL AFTER INSTALLATION OF CURB.
 3. SEAL DECK INTERFACE WITH SIKA IA.

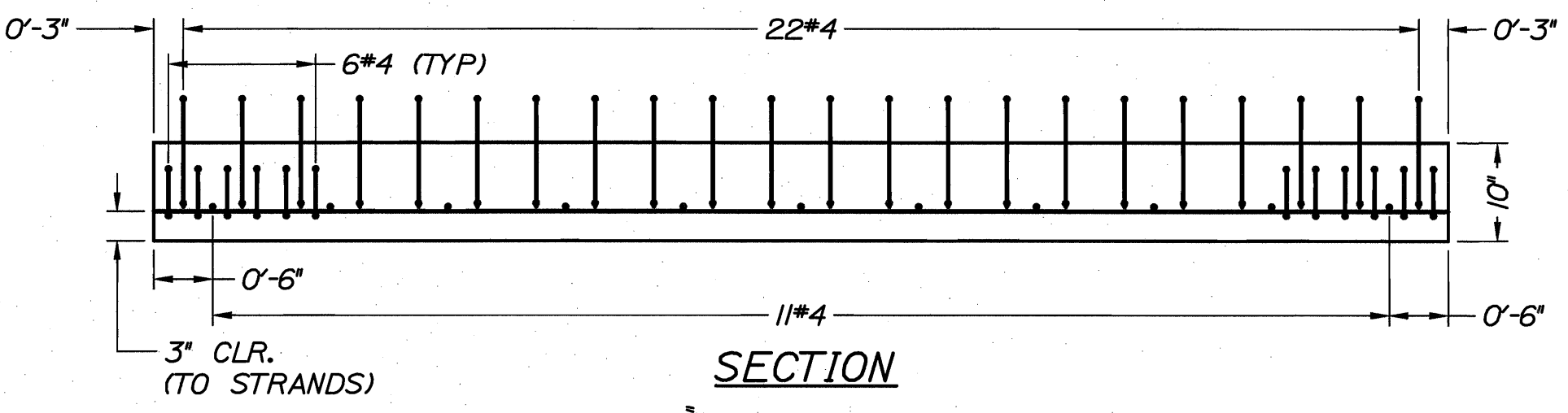
TERMINATION CURB DETAIL PARALLEL TO PILE CAP
SCALE: 1"=1'-0"



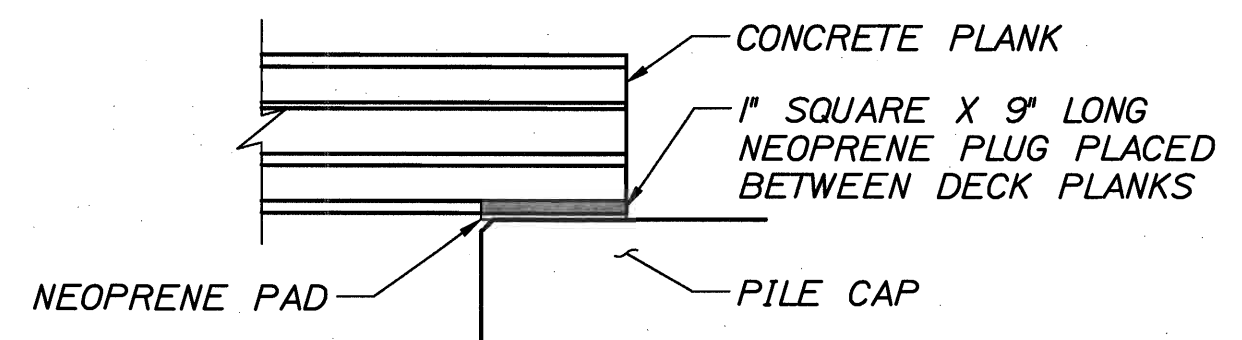
SHEAR KEY DETAIL
SCALE: 2"=1'-0"



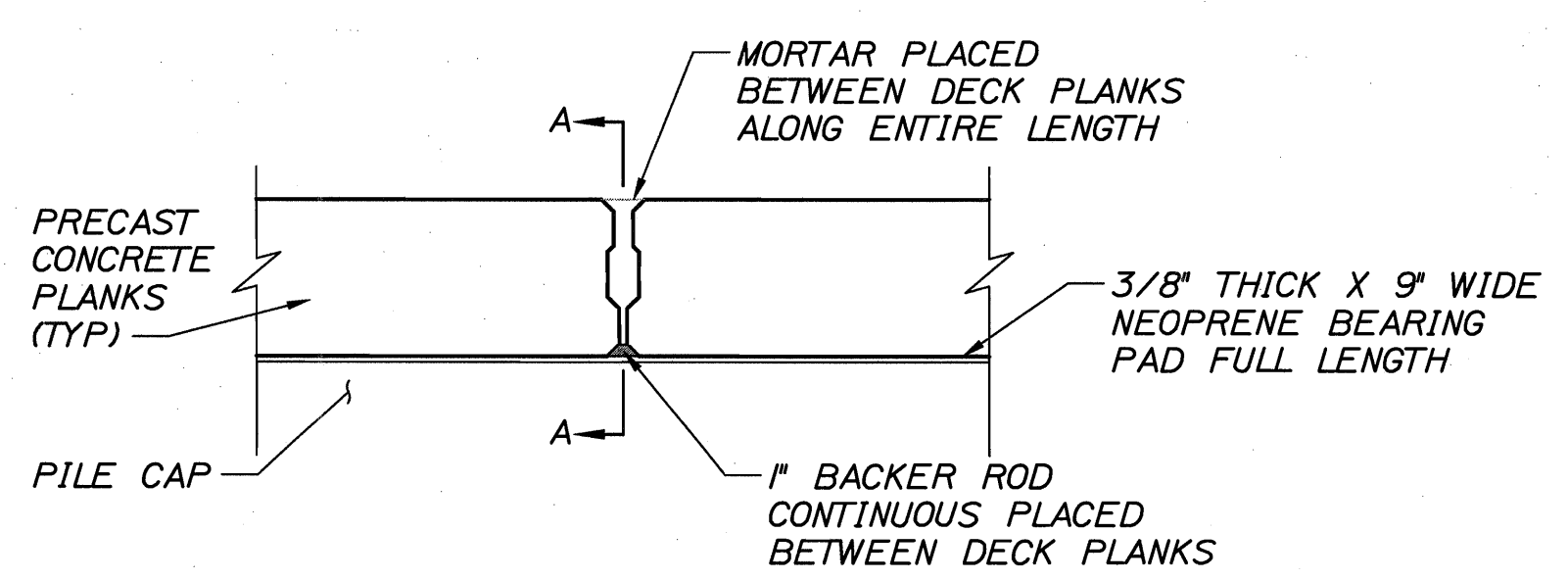
PLAN



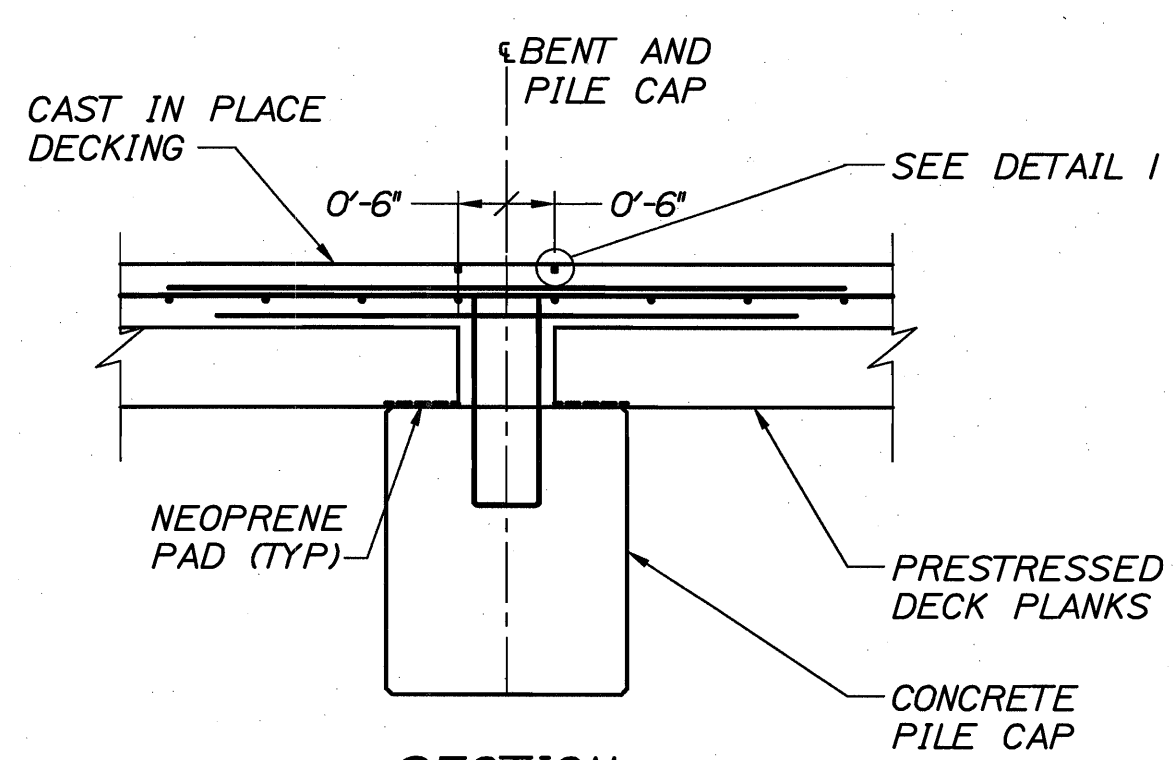
SECTION



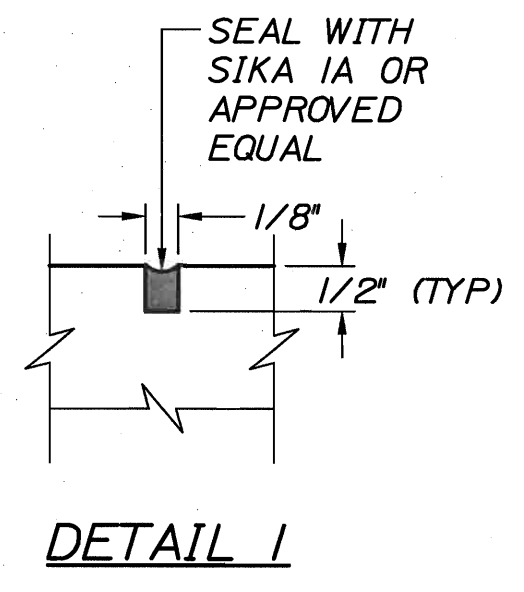
SECTION A-A



DECK PLANK ASSEMBLY DETAIL
SCALE: 1"=1'-0"



SECTION



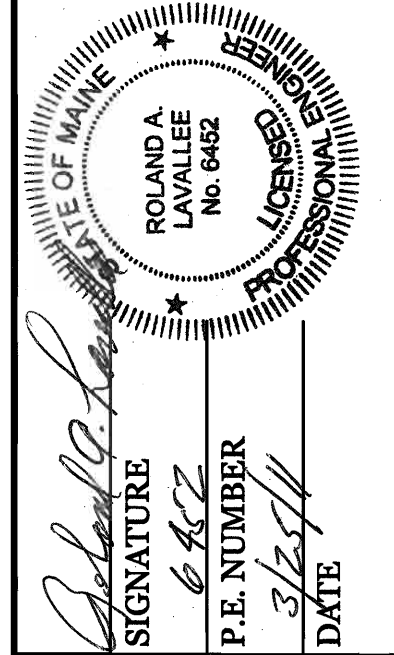
DETAIL I

TYPICAL PRESTRESSED SLAB DETAILS
SCALE: 3/4"=1'-0"

CONTROL JOINT DETAIL
SCALE: 1/2"=1'-0"

HNTB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00
PIN 017820.00

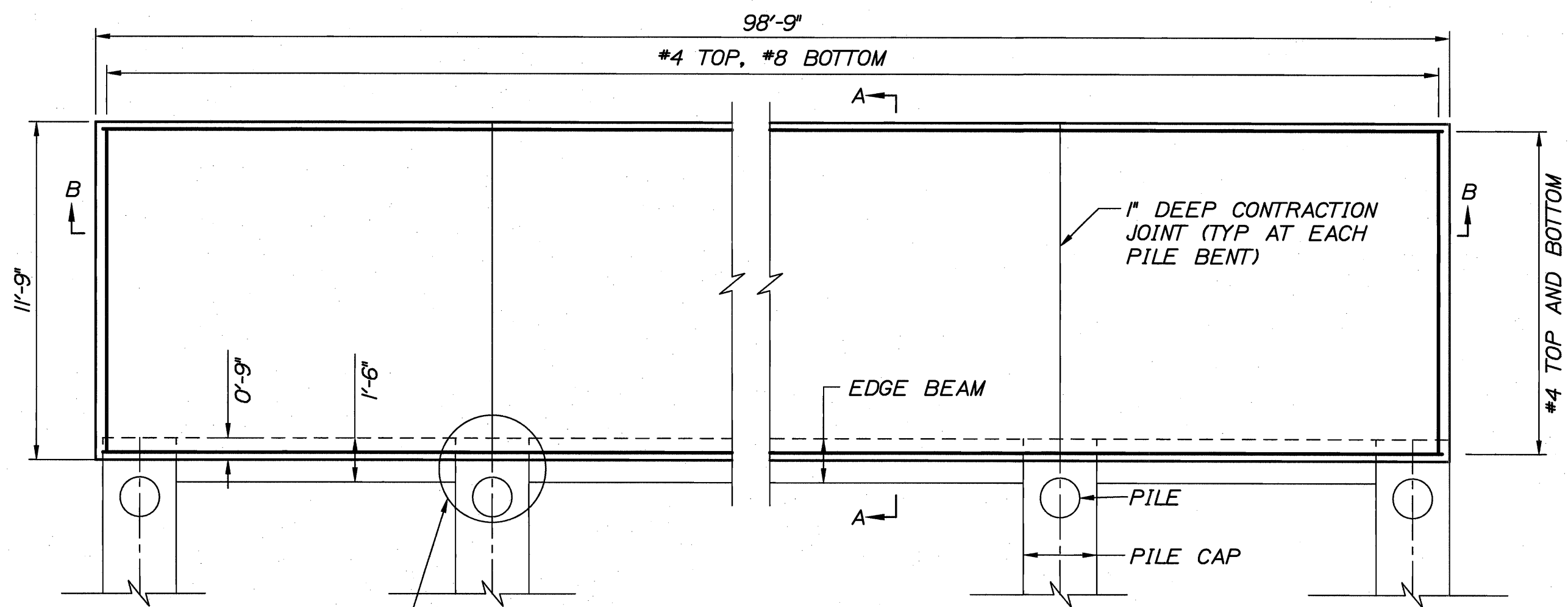


DATE	3/25/11
BY	CRAIG R. MORIN
DESIGN-DETAILED	AET
CHECKED-REVIEWED	CRM
DESIGN-2-DETAILED	
DESIGN-3-DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY

SHEET NUMBER

S4

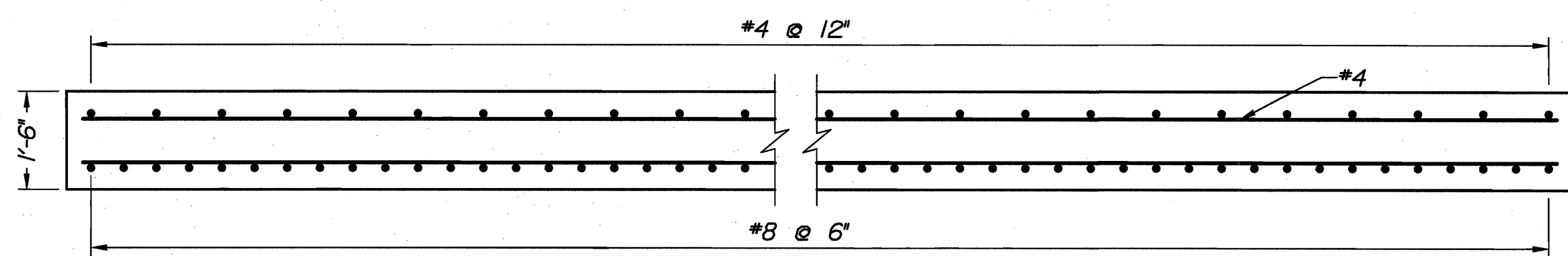


SEE DETAIL A

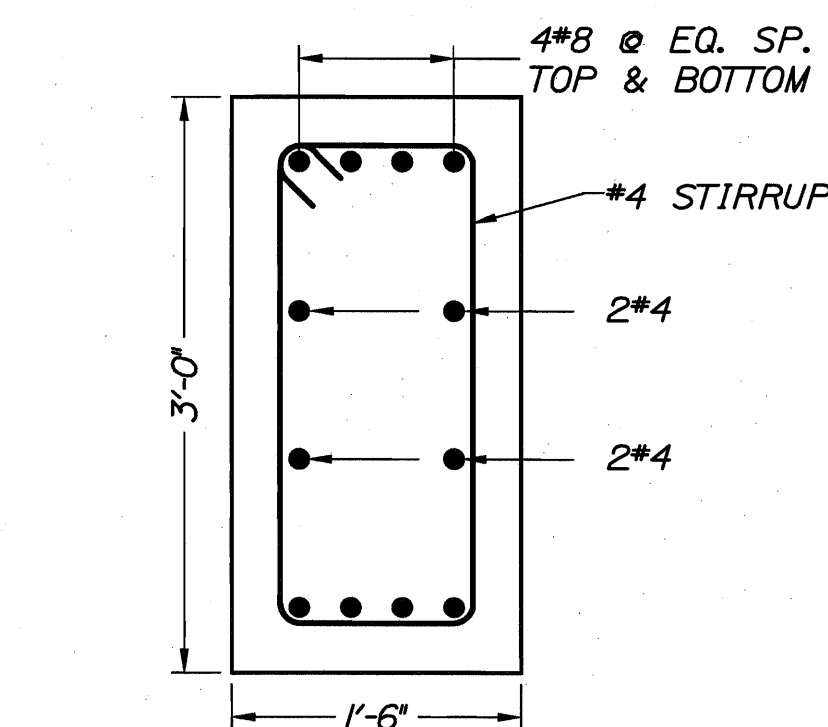
APPROACH SLAB PLAN
SCALE: 1/2"=1'-0"

NOTES:
1. CAST-IN-PLACE DECK SLAB AND PRECAST DECK PANELS NOT SHOWN FOR CLARITY

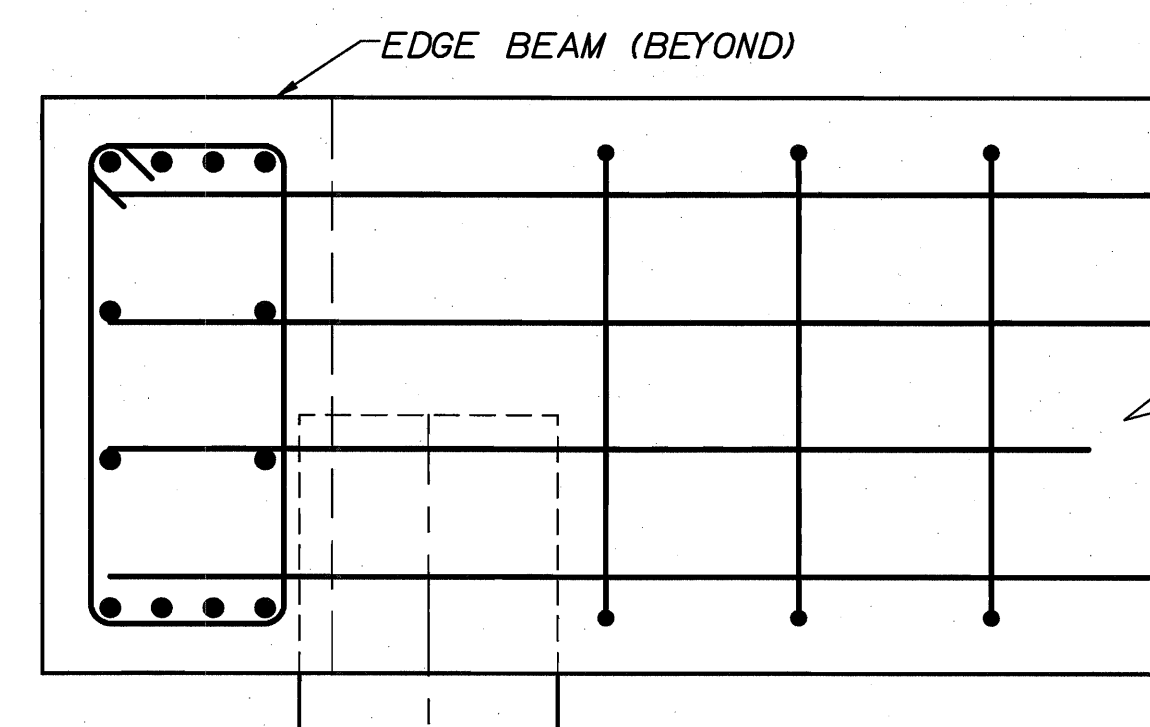
2. CONTRACTION JOINTS SHALL BE SOFT CUT IMMEDIATELY AFTER CONCRETE SURFACE IS FIRM ENOUGH TO KEEP A TROWELED GROOVE WITHOUT DAMAGE.



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

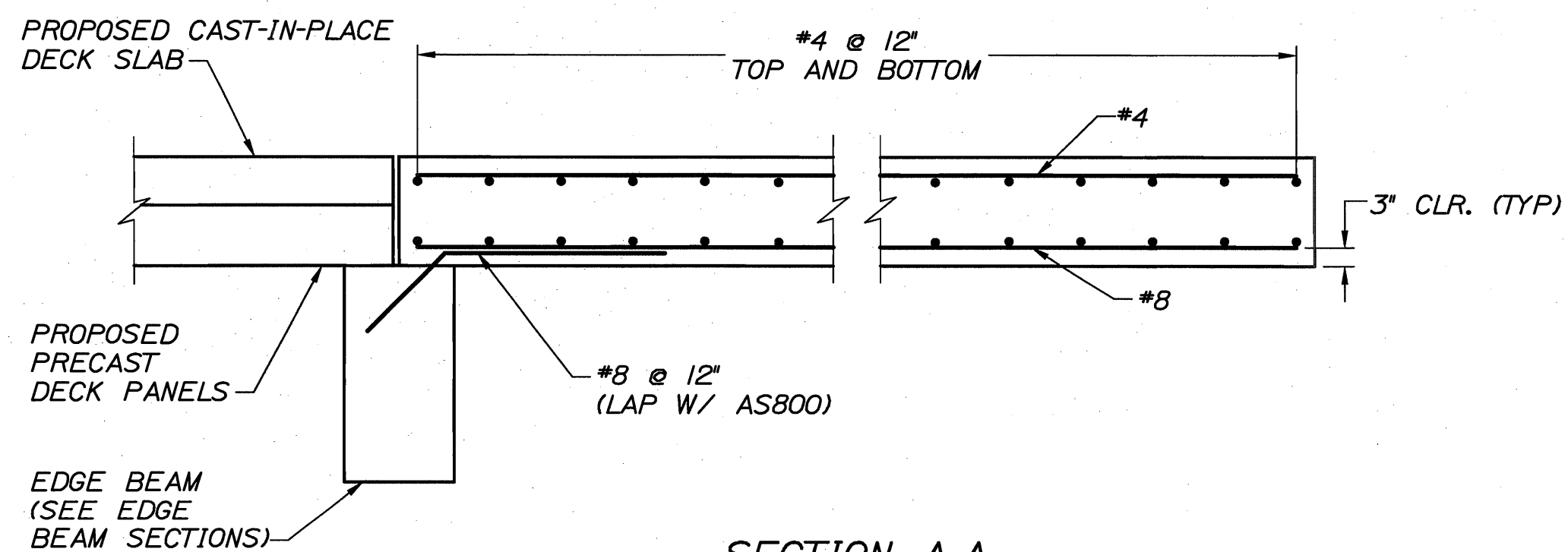


EDGE BEAM SECTION C-C
SCALE: 1"=1'-0"

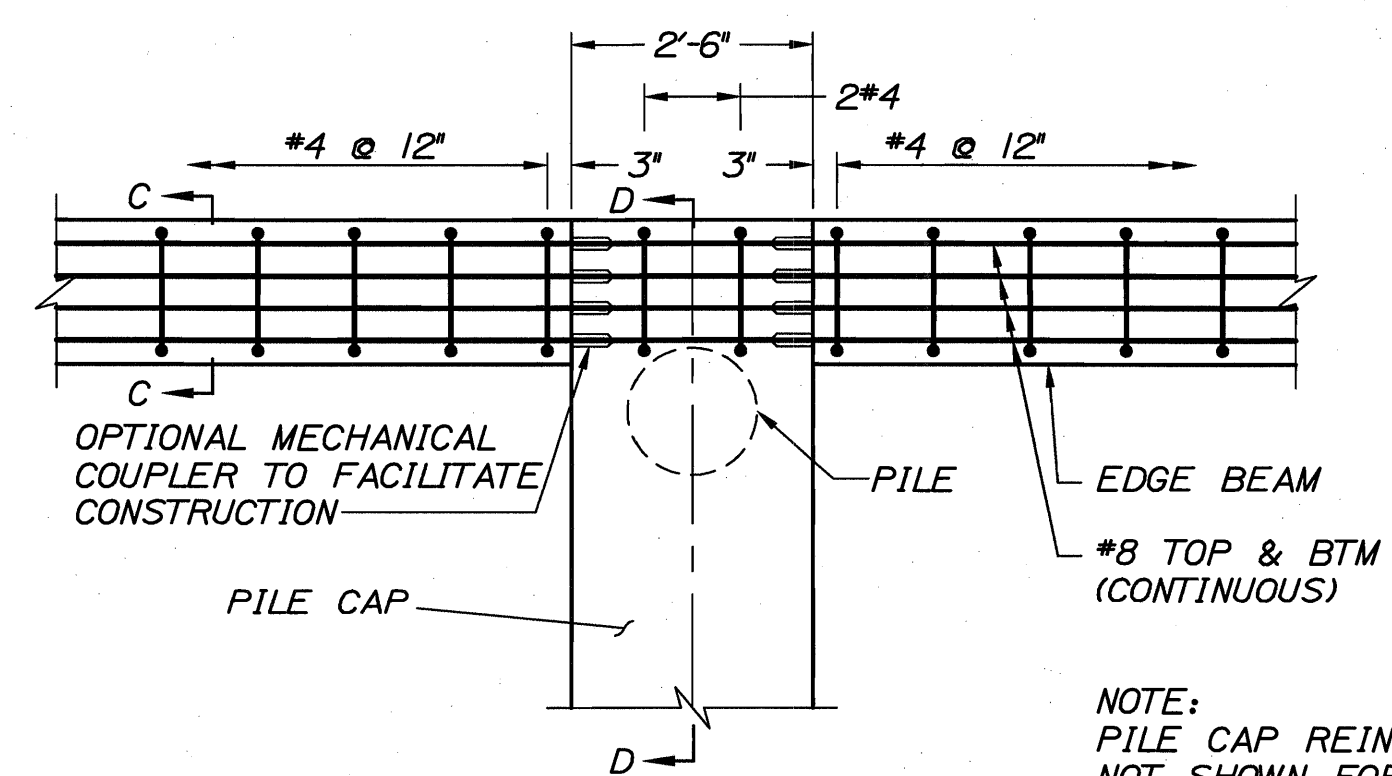


EDGE BEAM SECTION D-D
SCALE: 1"=1'-0"

NOTE:
IF PILES IN ROW 'N' ARE OUT OF POSITION ON THE INBOARD SIDE, THE CONTRACTOR SHALL NOTIFY THE RESIDENT FOR RESOLUTION.

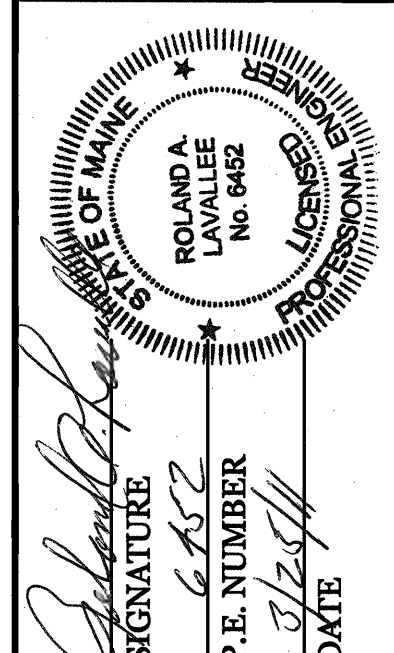


SECTION A-A
SCALE: 1/2"=1'-0"

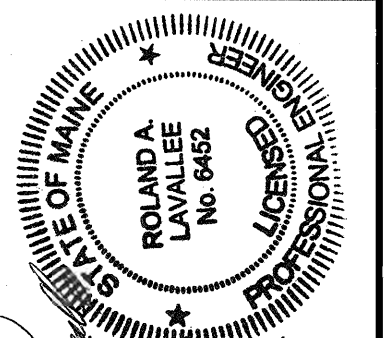


DETAIL A
SCALE: 1/2"=1'-0"

NOTE:
PILE CAP REINFORCEMENT NOT SHOWN FOR CLARITY



DATE	3/25/11
BY	HME
PROJ. MANAGER	CRAIG R. MORIN
DESIGN-DETAILED	JDW
CHECKED-REVIEWED	CRM
DESIGN-2-DETAILED	-
DESIGN-3-DETAILED	-
REVISIONS	1
REVISIONS	2
REVISIONS	3
REVISIONS	4
FIELD CHANGES	-

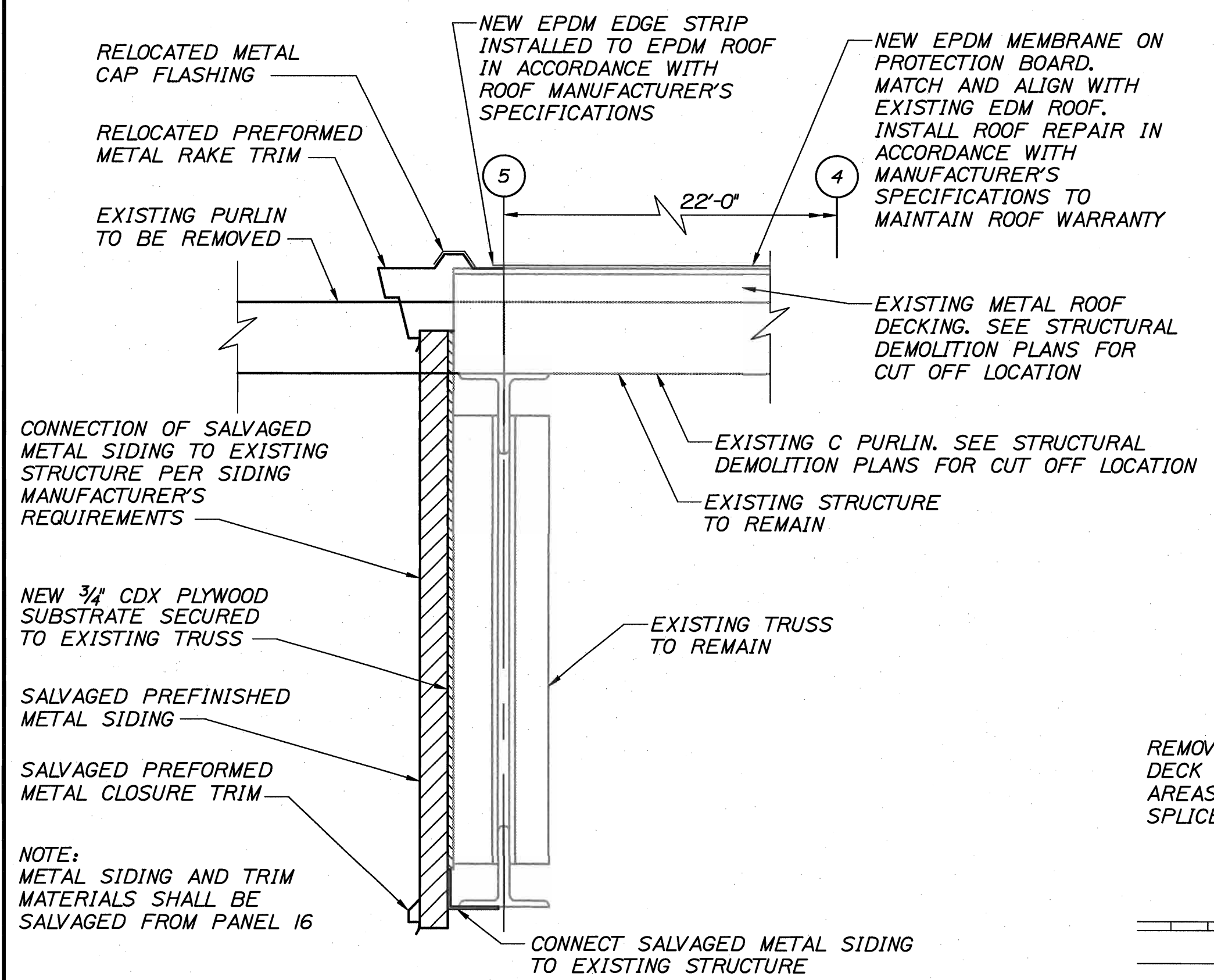


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P.E. NUMBER: 6462
DATE: 3/25/11

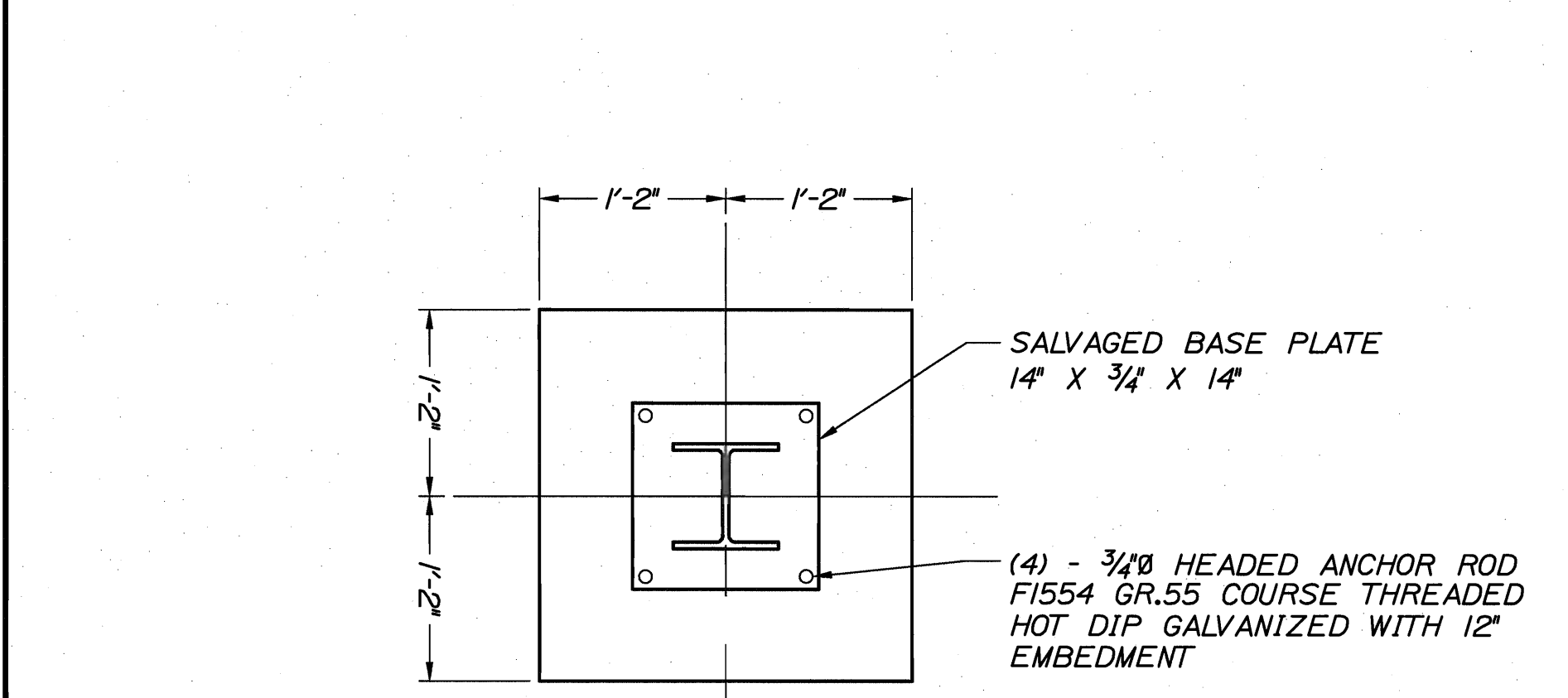
DATE	BY	REVISION
3/25/11	HME	DESIGN-DETAILED
3/25/11	RAL	CHECKED-REVIEWED
		DESIGN-DETAILED2
		DESIGN-DETAILED3
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
**MAINTENANCE BUILDING
MODIFICATION DETAILS**

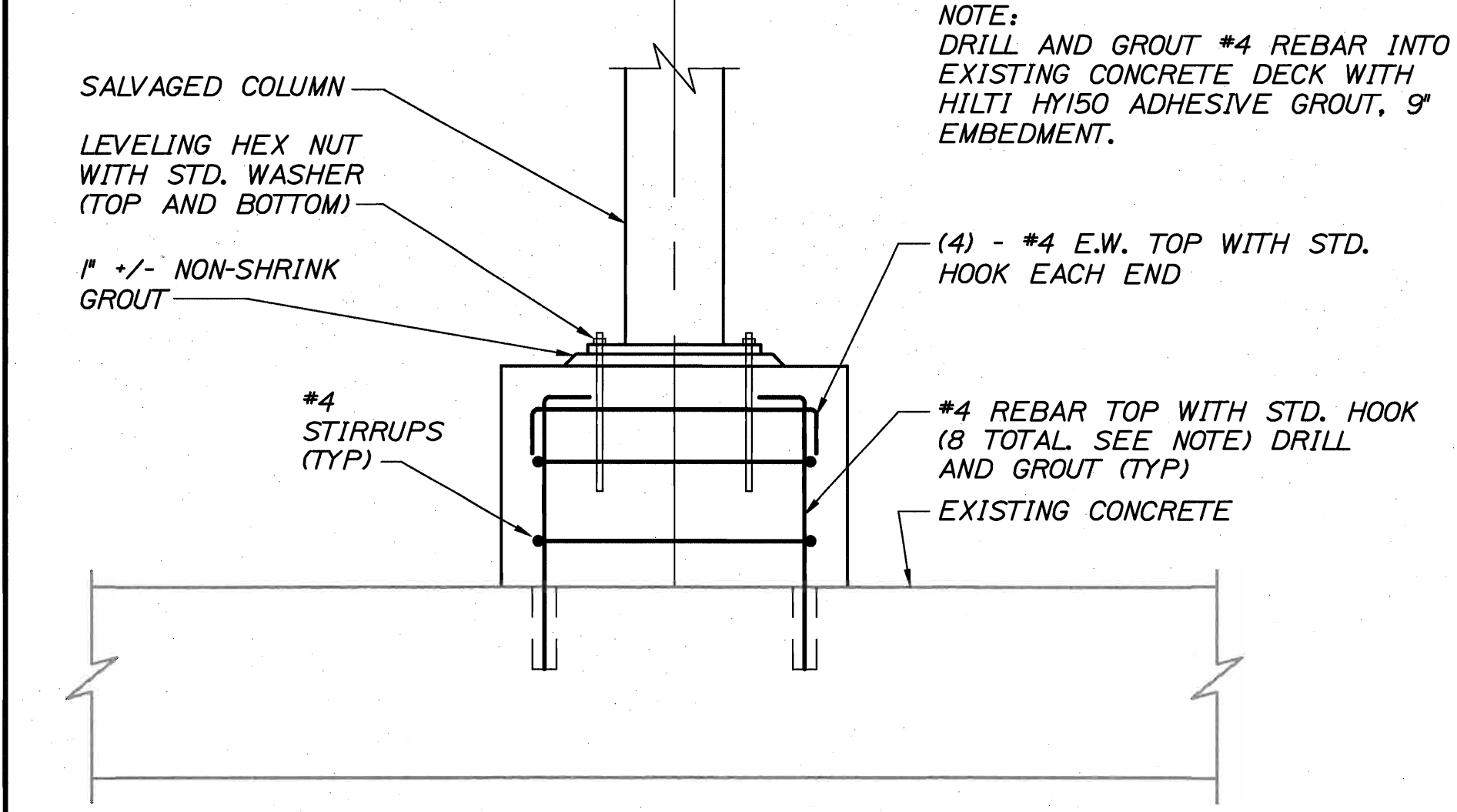
SHEET NUMBER
56
36 OF 71



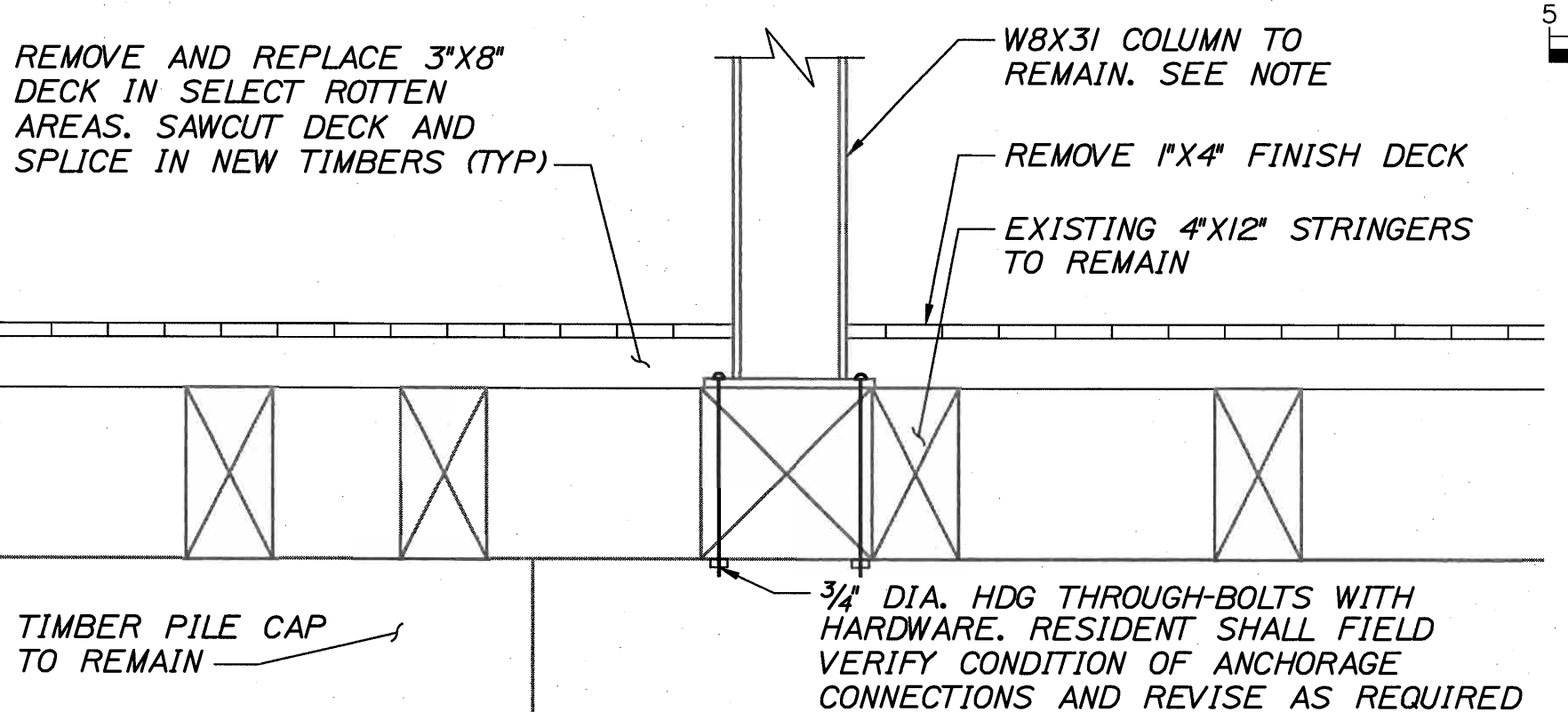
ROOF EDGE AT DEMOLITION LIMIT DETAIL
NTS



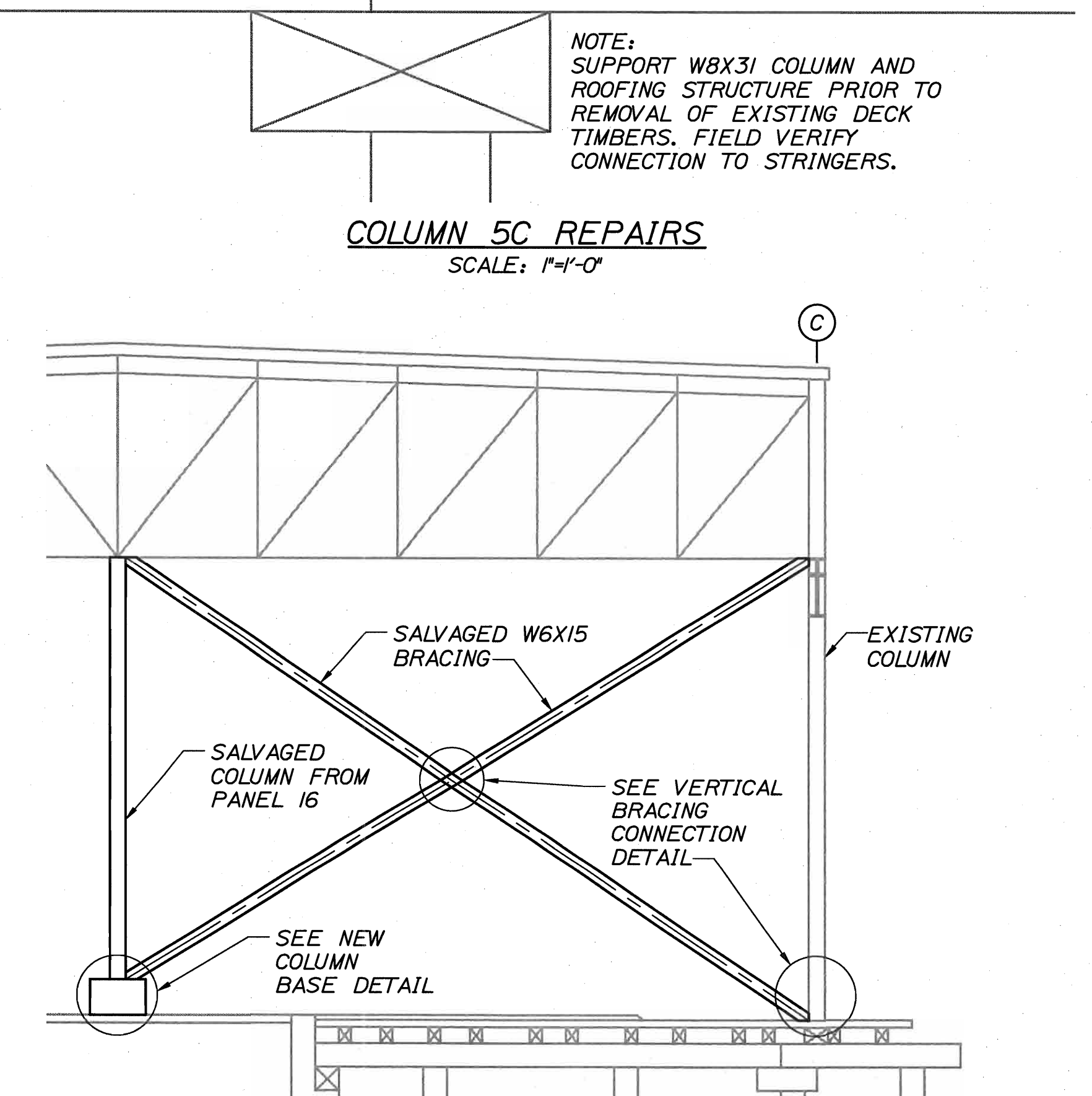
COLUMN 5C REPAIRS
SCALE: 1/4"=1'-0"



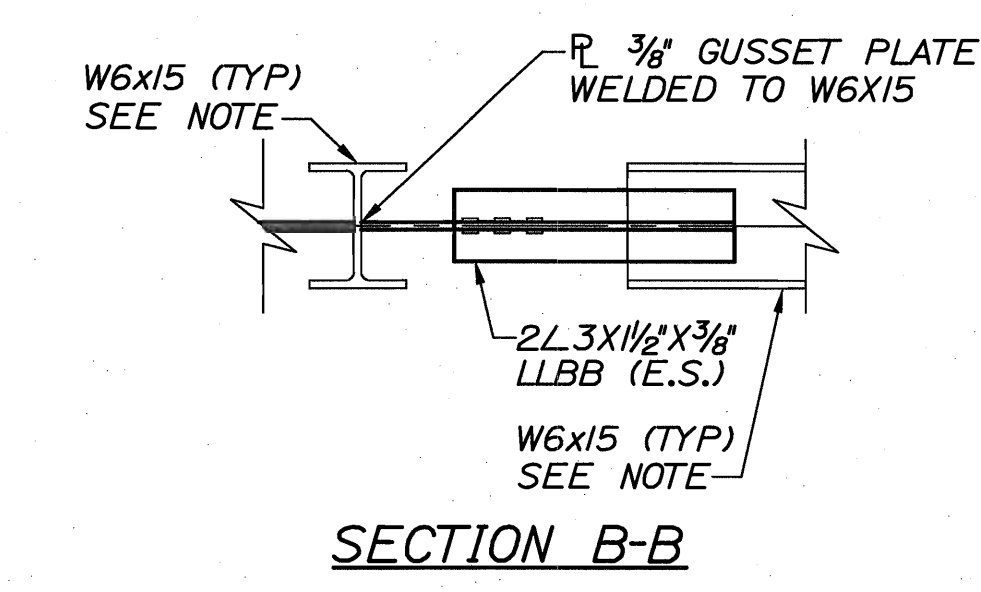
NEW COLUMN BASE DETAIL
NTS



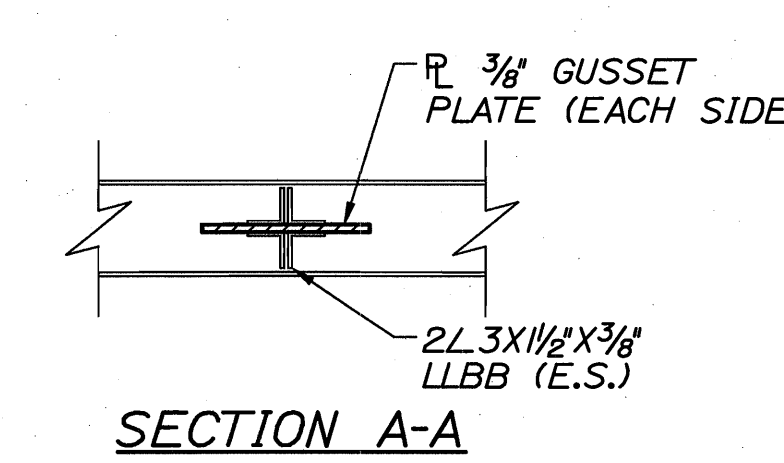
WOOD DECK REPLACEMENT PLAN
SCALE: 1/4"=1'-0"



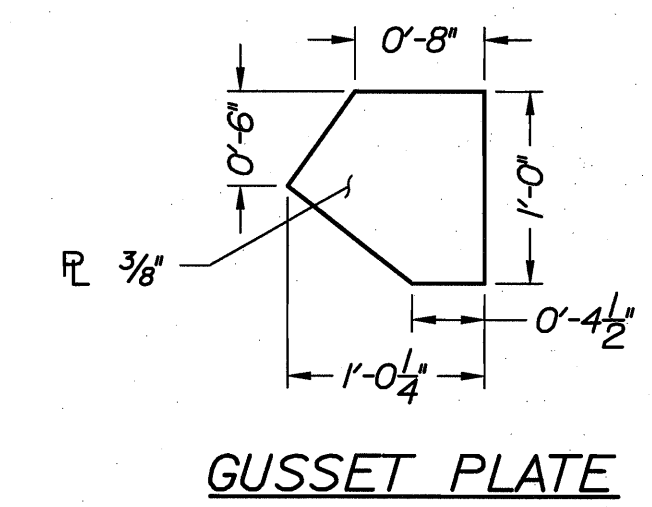
PANEL 5 VERTICAL BRACING SUPPORT DETAIL
NTS



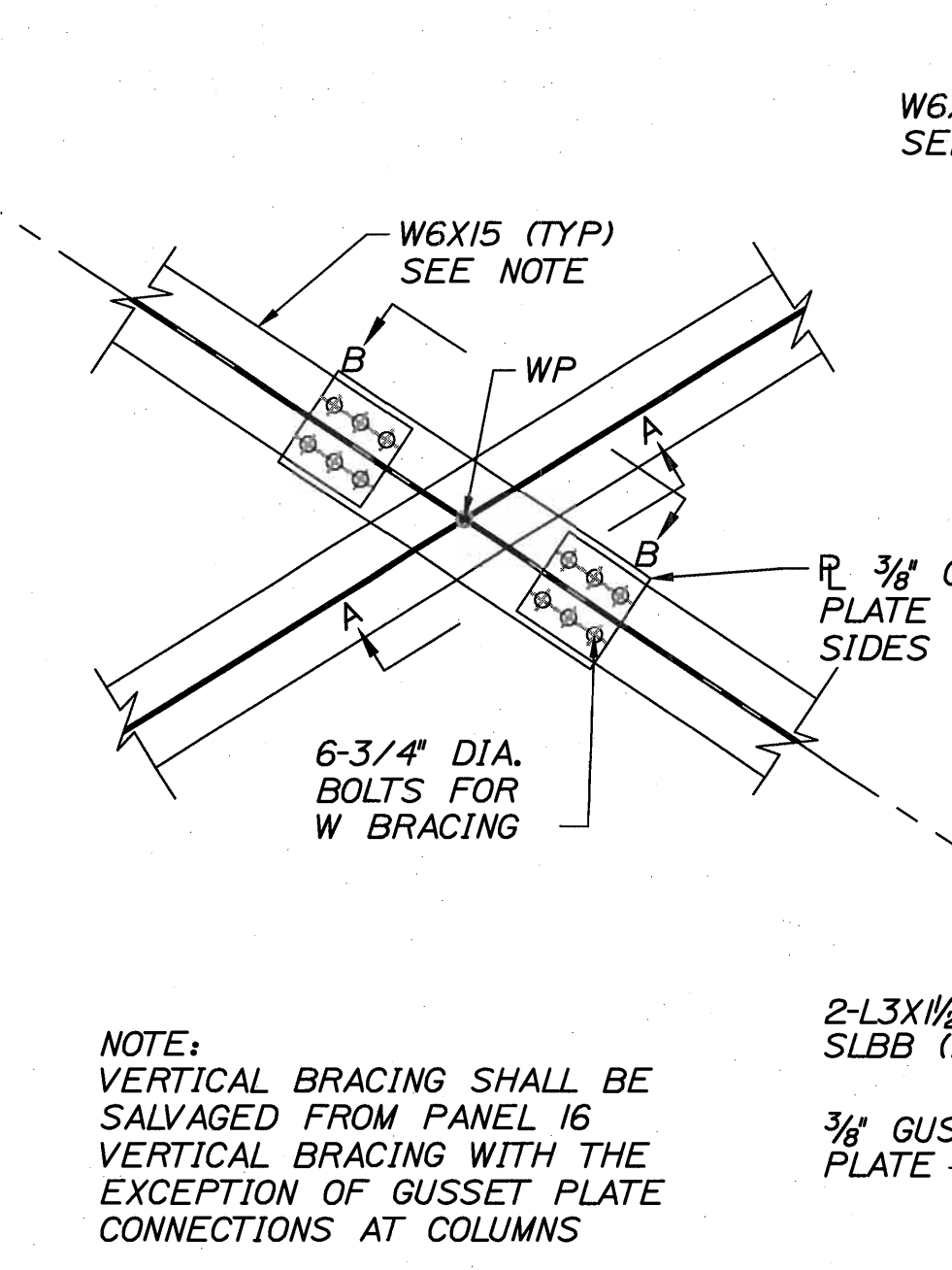
SECTION B-B



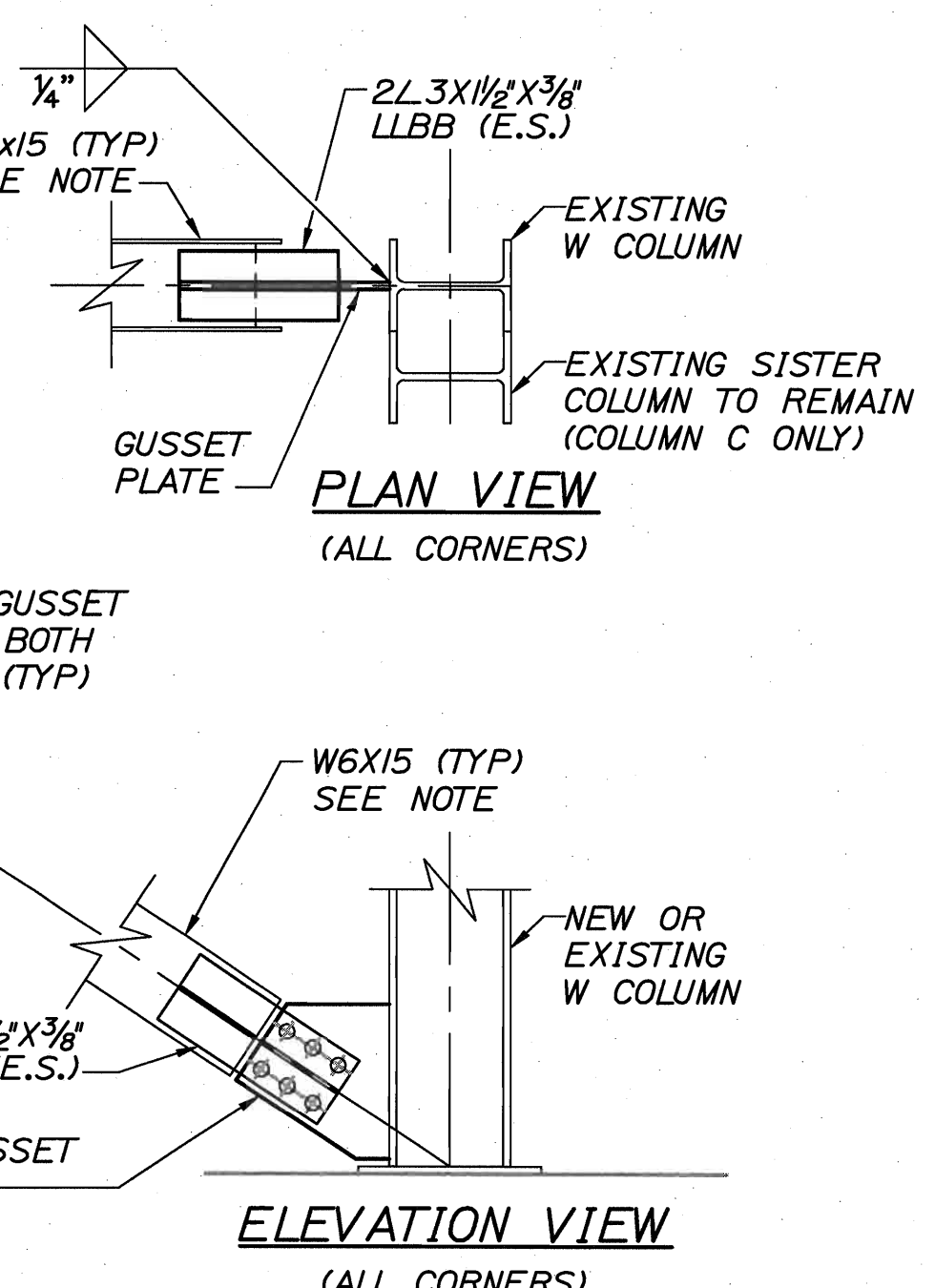
SECTION A-A



GUSSET PLATE

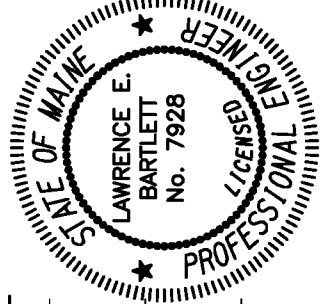


VERTICAL BRACING CONNECTION DETAIL
NTS



ELEVATION VIEW
(ALL CORNERS)

11/14/2010 10:00 AM HNTB\Projects\017820.00\Drawings\017820.00-01.dwg



Lawrence E. Bartlett
 SIGNATURE
 P.E. NUMBER 7928
 DATE 03/25/11

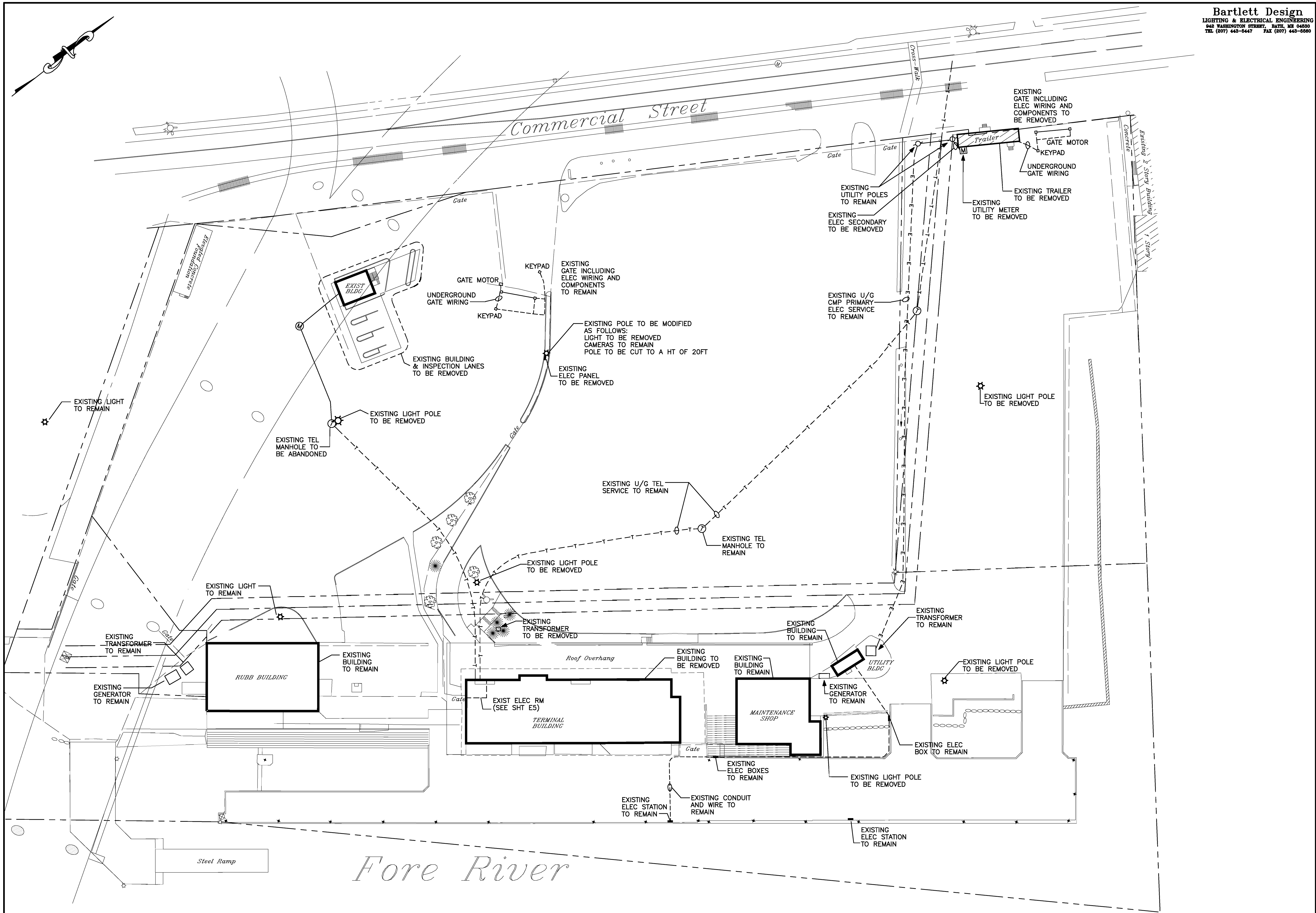
PROJ. MGR	DESIGN	CHECKED	REVIEWED	DATE
CRAIG R. MORIN	LEEB	LEEB	LEEB	3/25/11
DESIGNED	LEEB	LEEB	LEEB	3/25/11
REVISIONS 1	---	---	---	---
REVISIONS 2	---	---	---	---
REVISIONS 3	---	---	---	---
REVISIONS 4	---	---	---	---
FIELD CHANGES	---	---	---	---

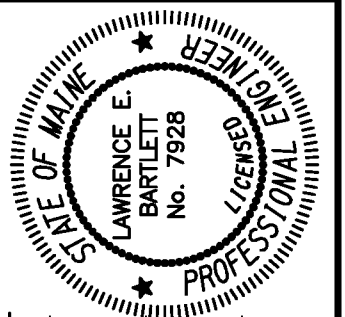
PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
EXISTING SITE ELECTRICAL

SHEET NUMBER

E1

37 OF 71



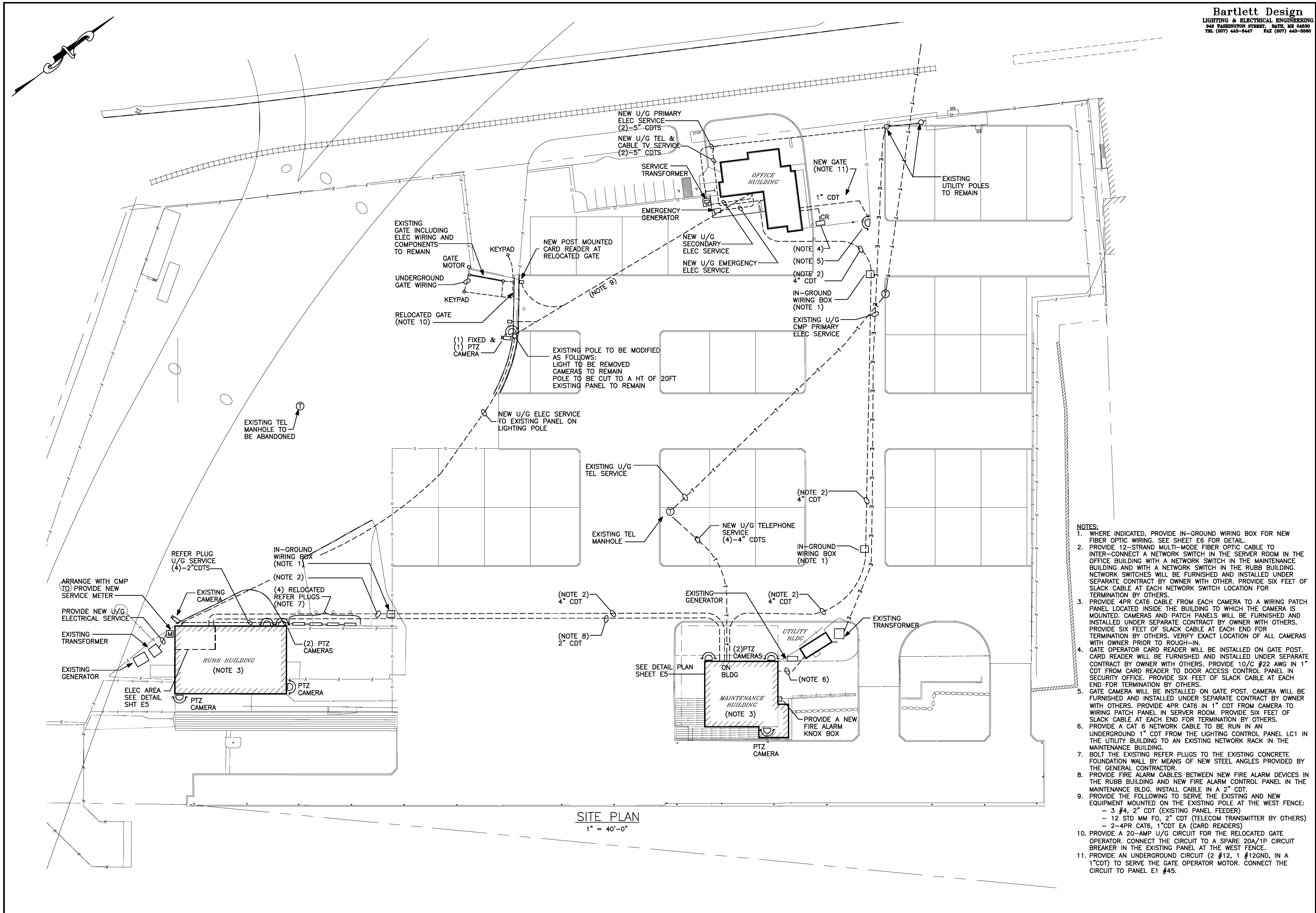


PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	LEB	BY	JLC
CHECKED-REVIEWED	LEB	DATE	3/25/11
DESIGN-DETAILED	-	SIGNATURE	Lawrence E. Bartlett
REVISIONS 1	-	P.E. NUMBER	7928
REVISIONS 2	-	DATE	09/25/11
REVISIONS 3	-	FIELD CHANGES	-
REVISIONS 4	-		

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
PROPOSED SITE ELECTRICAL

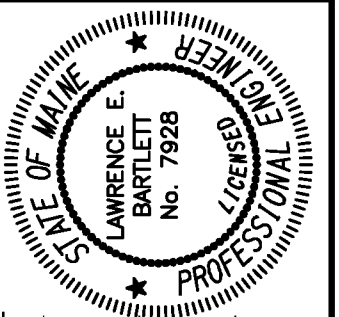
SHEET NUMBER

E2



SITE PLAN
 1" = 40'-0"

- NOTES:**
- WHERE INDICATED, PROVIDE IN-GROUND WIRING BOX FOR NEW FIBER OPTIC WIRING. SEE SHEET E6 FOR DETAIL.
 - PROVIDE 12-STRAND MULTI-MODE FIBER OPTIC CABLE TO INTER-CONNECT A NETWORK SWITCH IN THE SERVER ROOM IN THE OFFICE BUILDING WITH A NETWORK SWITCH IN THE MAINTENANCE BUILDING AND WITH A NETWORK SWITCH IN THE RUBB BUILDING. NETWORK SWITCHES WILL BE FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT BY OWNER WITH OTHERS. PROVIDE SIX FEET OF SLACK CABLE AT EACH NETWORK SWITCH LOCATION FOR TERMINATION BY OTHERS.
 - PROVIDE 4PR CAT6 CABLE FROM EACH CAMERA TO A WIRING PATCH PANEL LOCATED INSIDE THE BUILDING TO WHICH THE CAMERA IS MOUNTED. CAMERAS AND PATCH PANELS WILL BE FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT BY OWNER WITH OTHERS. PROVIDE SIX FEET OF SLACK CABLE AT EACH END FOR TERMINATION BY OTHERS. VERIFY EXACT LOCATION OF ALL CAMERAS WITH OWNER PRIOR TO ROUGH-IN.
 - GATE OPERATOR CARD READER WILL BE INSTALLED ON GATE POST. CARD READER WILL BE FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT BY OWNER WITH OTHERS. PROVIDE 10/C #22 AWG IN 1" CDT FROM CARD READER TO DOOR ACCESS CONTROL PANEL IN SECURITY OFFICE. PROVIDE SIX FEET OF SLACK CABLE AT EACH END FOR TERMINATION BY OTHERS.
 - GATE CAMERA WILL BE INSTALLED ON GATE POST. CAMERA WILL BE FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT BY OWNER WITH OTHERS. PROVIDE 4PR CAT6 IN 1" CDT FROM CAMERA TO WIRING PATCH PANEL IN SERVER ROOM. PROVIDE SIX FEET OF SLACK CABLE AT EACH END FOR TERMINATION BY OTHERS.
 - PROVIDE A CAT 6 NETWORK CABLE TO BE RUN IN AN UNDERGROUND 1" CDT FROM THE LIGHTING CONTROL PANEL LC1 IN THE UTILITY BUILDING TO AN EXISTING NETWORK RACK IN THE MAINTENANCE BUILDING.
 - BOLT THE EXISTING REFER PLUGS TO THE EXISTING CONCRETE FOUNDATION WALL BY MEANS OF NEW STEEL ANGLES PROVIDED BY THE GENERAL CONTRACTOR.
 - PROVIDE FIRE ALARM CABLES BETWEEN NEW FIRE ALARM DEVICES IN THE RUBB BUILDING AND NEW FIRE ALARM CONTROL PANEL IN THE MAINTENANCE BLDG. INSTALL CABLE IN A 2" CDT.
 - PROVIDE THE FOLLOWING TO SERVE THE EXISTING AND NEW EQUIPMENT MOUNTED ON THE EXISTING POLE AT THE WEST FENCE:
 - 3 #4, 2" CDT (EXISTING PANEL FEEDER)
 - 12 STD MM FO, 2" CDT (TELECOM TRANSMITTER BY OTHERS)
 - 2-4PR CAT6, 1"CDT EA (CARD READERS)
 - PROVIDE A 20-AMP U/G CIRCUIT FOR THE RELOCATED GATE OPERATOR. CONNECT THE CIRCUIT TO A SPARE 20A/1P CIRCUIT BREAKER IN THE EXISTING PANEL AT THE WEST FENCE.
 - PROVIDE AN UNDERGROUND CIRCUIT (2 #12, 1 #12GND, IN A 1"CDT) TO SERVE THE GATE OPERATOR MOTOR. CONNECT THE CIRCUIT TO PANEL E1 #45.



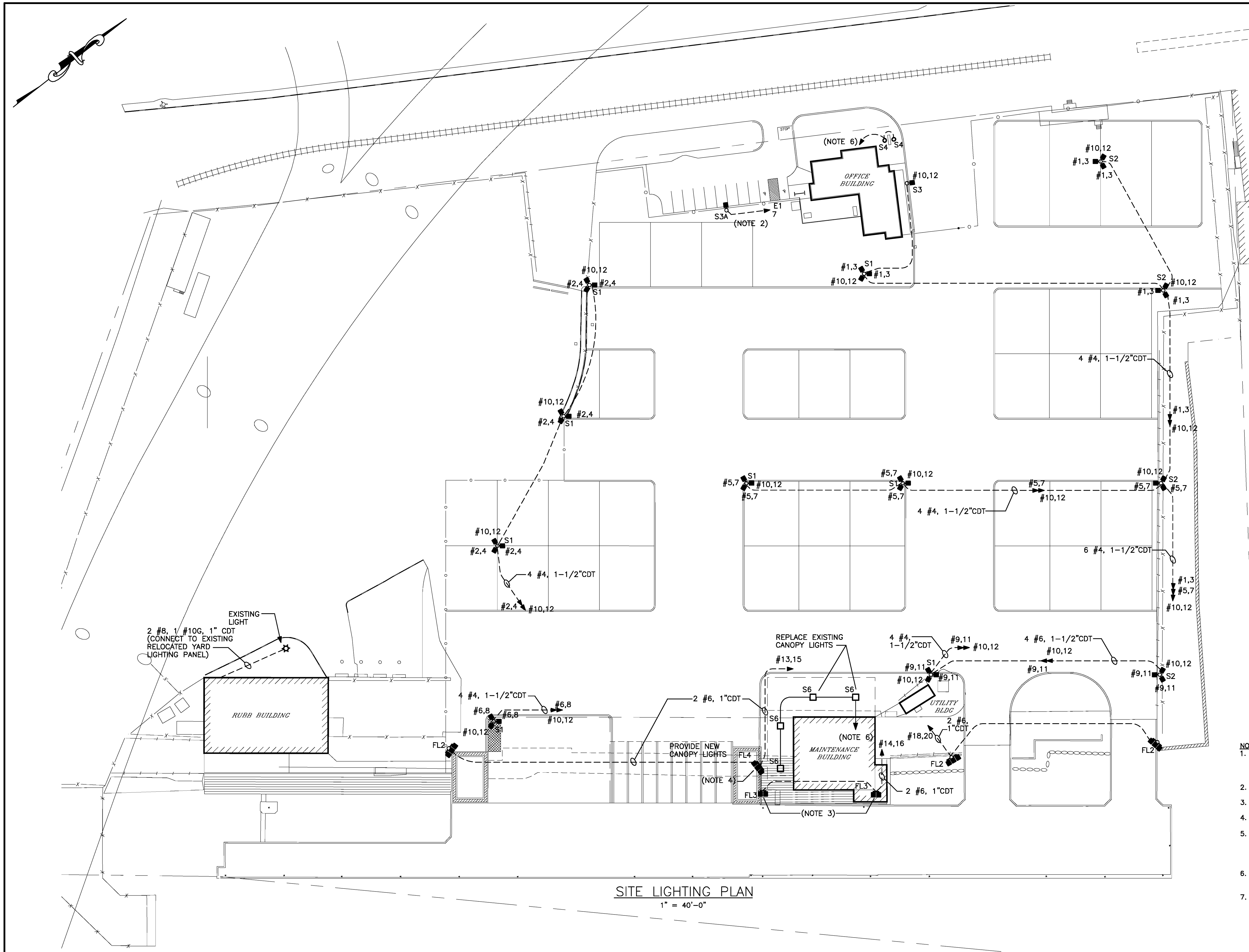
Lawrence E. Bartlett
 SIGNATURE
 7928 P.E. NUMBER
 03/25/11 DATE

DATE	BY	PROJ. MGR.	DESIGN-DETAILED	CHECKED	DESIGN-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/25/11	J.L.C.	CRAIG R. MORIN	LEB	LEB	LEB	-	-	-	-	-	-
3/25/11	LEB	-	-	-	-	-	-	-	-	-	-

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
PROPOSED SITE LIGHTING

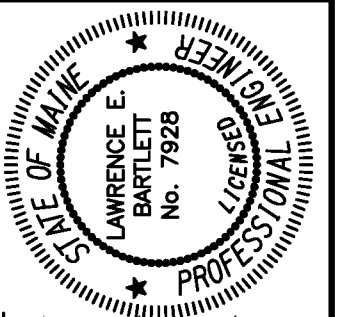
SHEET NUMBER

E3



SITE LIGHTING PLAN
 1" = 40'-0"

- NOTES:**
1. CIRCUIT SITE LIGHTS TO EXISTING PANEL SPP-2 IN UTILITY BUILDING (20A/2P CBs). ROUTE CIRCUITS THROUGH LIGHTING CONTROL PANEL LC-1 (SEE SHT E5 FOR UTILITY BLDG DETAIL PLAN).
 2. CIRCUIT PARKING LOT LIGHTING POLE TO PANEL E1 #7 IN OFFICE BUILDING.
 3. WHERE INDICATED, INSTALL FLOODLIGHTS ON BUILDING WALL AT HEIGHT AS DIRECTED BY ARCHITECT.
 4. WHERE INDICATED INSTALL FLOODLIGHTS ON FACE OF CANOPY.
 5. WIRE CANOPY LIGHTS TO A NEW 20A/1P CIRCUIT BREAKER TO BE ADDED TO THE EXISTING 120/208V PANEL IN THE MAINTENANCE BUILDING PROVIDE AN EXTERIOR PHOTOCELL CONTROL AND AN INTERIOR MANUAL CONTROL SWITCH.
 6. CONNECT SIGN LIGHTS (TYPE S4) TO PANEL P1 #15. PROVIDE AN ON/OFF SWITCH IN SECURITY OFFICE ROOM 105.
 7. SEE DRAWING C28 FOR LOCATIONS OF STORM DRAIN CATCH BASINS AND UNDERGROUND STORM DRAIN LINES. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF LIGHTING POLE FOUNDATIONS WITH EXISTING AND NEW STORM DRAIN STRUCTURES. THE CONTRACTOR SHALL MARK INTENDED LOCATIONS OF LIGHTING POLE FOUNDATIONS ON SITE FOR REVIEW BY THE ENGINEER PRIOR TO EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITY LINES.



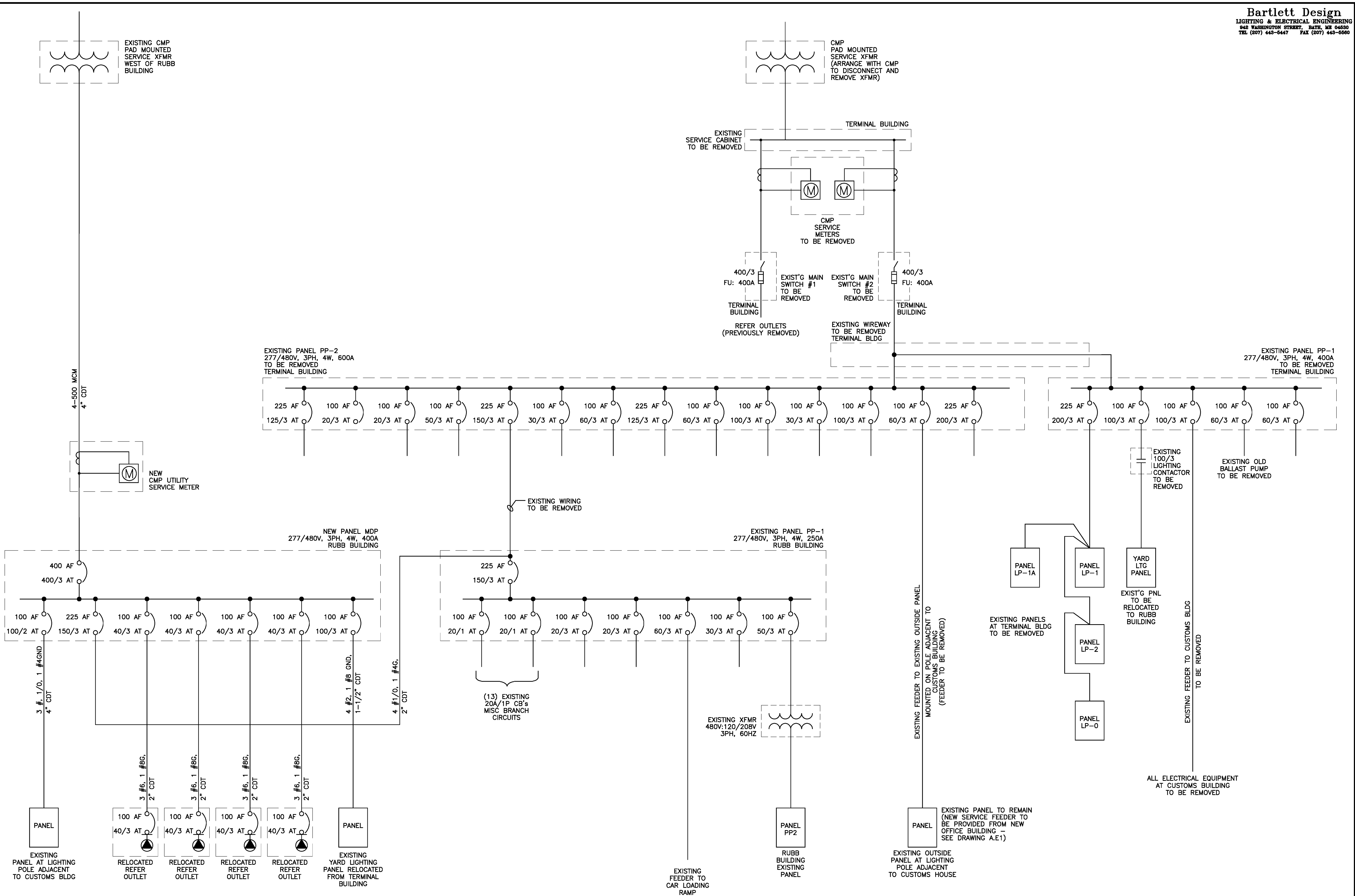
Lawrence E. Bartlett
 SIGNATURE
 7928
 P.E. NUMBER
 09/25/11
 DATE

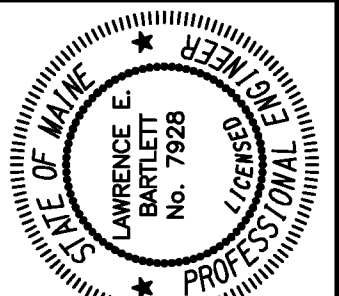
PROJ. MGR.	DATE	BY
MANAGER CRAIG R. MORIN	3/25/11	JLC
DESIGN-DETAILED	3/25/11	LEB
CHECKED-REVIEWED		LEB
DESIGN-REVIEWED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND
 CUMBERLAND COUNTY
ELEC. SINGLE LINE DIAGRAM

SHEET NUMBER

E4

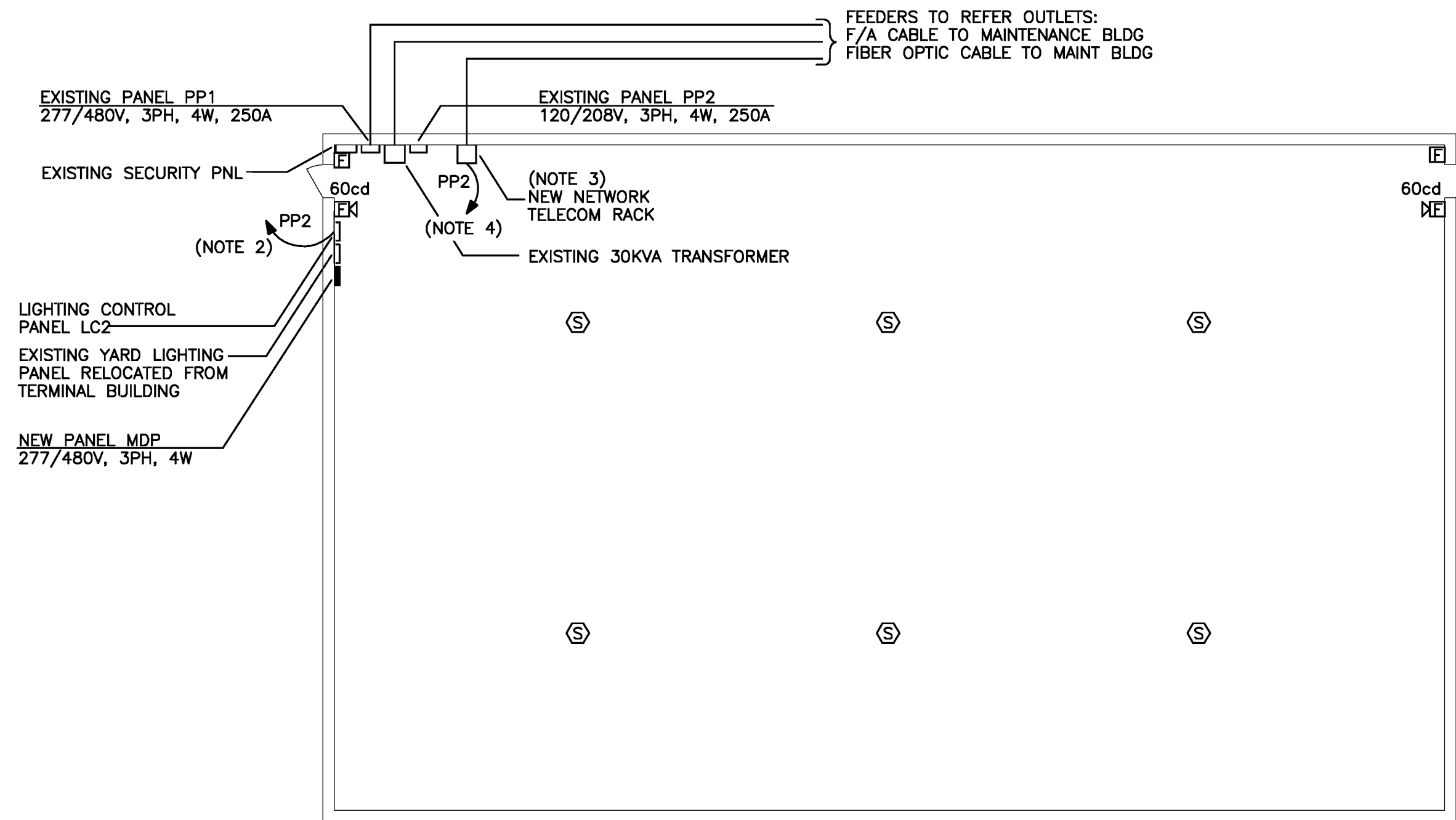




PROJ. MANAGER	CRAIG R. MORIN	DATE	3/25/11
DESIGN-DETAILED	LEB	CHECKED-REVIEWED	LEB
DESIGN-REVIEWED	LEB	DESIGN-DETAILED	LEB
DESIGN-DETAILED	LEB	REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
ELECTRICAL DETAILS - 1

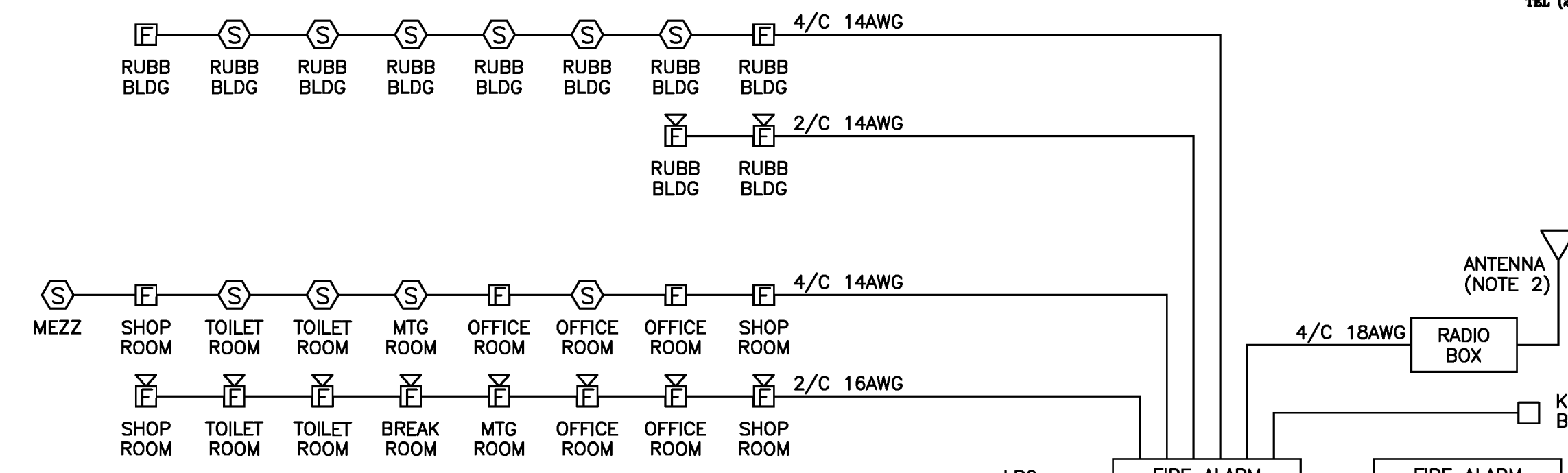
SHEET NUMBER
E5
 41 OF 71



RUBB BUILDING
 3/32" = 1'-0"

RUBB BUILDING NOTES:

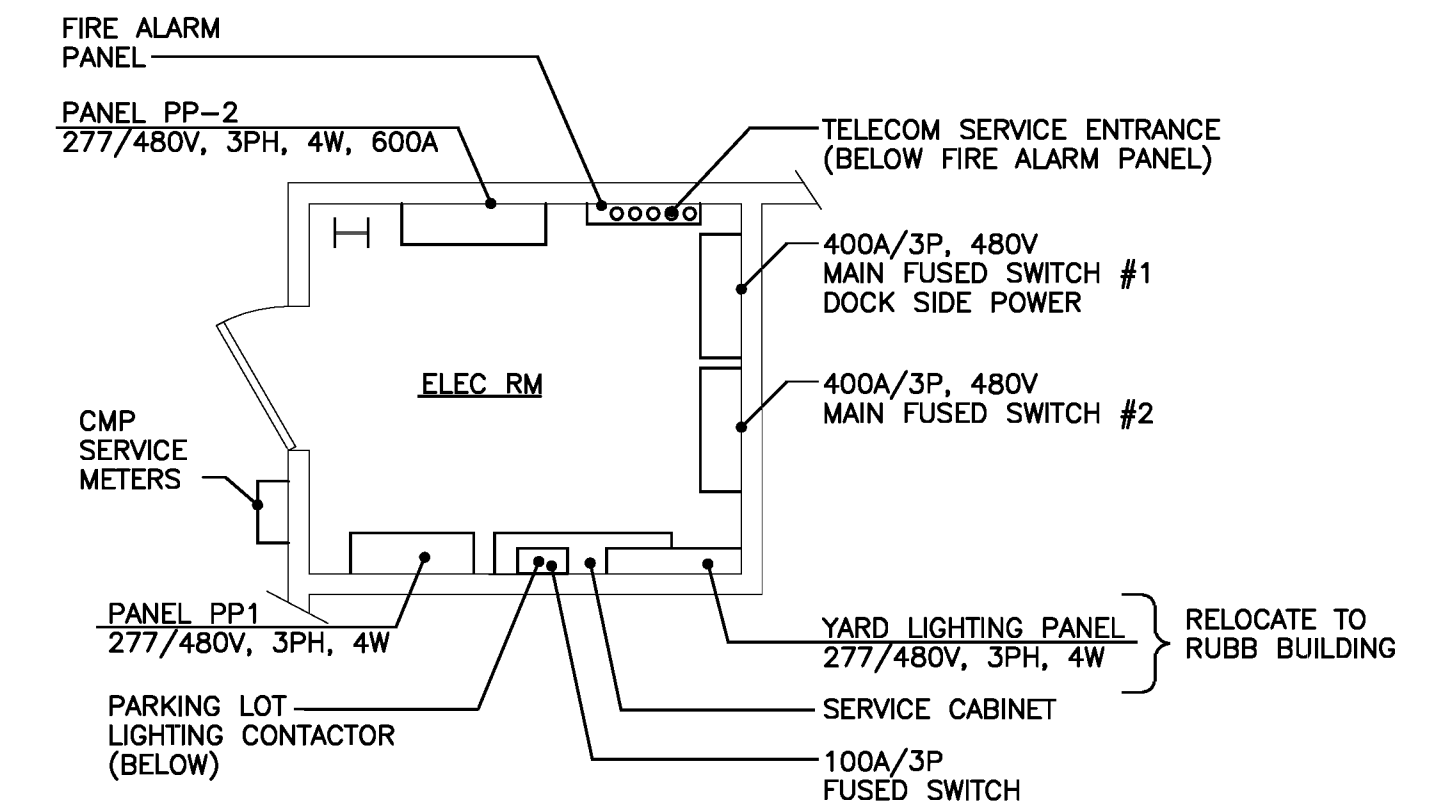
1. PROVIDE NEW (REPLACEMENT) FIRE ALARM DEVICES AS SHOWN. CONNECT NEW FIRE ALARM DEVICES TO THE NEW FIRE ALARM CONTROL PANEL TO BE PROVIDED AT THE MAINTENANCE BUILDING.
2. PROVIDE A 20A/1P CB TO BE INSTALLED IN EXISTING PANEL PP2 FOR THE CIRCUIT SERVING LIGHTING CONTROL PANEL LC2.
3. PROVIDE A 20A/1P CB TO BE INSTALLED IN EXISTING PANEL PP2 FOR THE NEW NETWORK TELECOM RACK.
4. EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ALL ELECTRICAL WORK SHOWN IS EXISTING TO REMAIN.
5. ROUTE OUTSIDE POLE LIGHTING CIRCUITS THROUGH LIGHTING CONTROL PANEL LC2 TO RELOCATED YARD LIGHTING PANEL.
6. THE NETWORK RACK SHALL INCLUDE A 48-PORT CAT 5E PATCH PANEL AND A SURGE PROTECTED POWER STRIP.



FIRE ALARM RISER DIAGRAM NOTES:

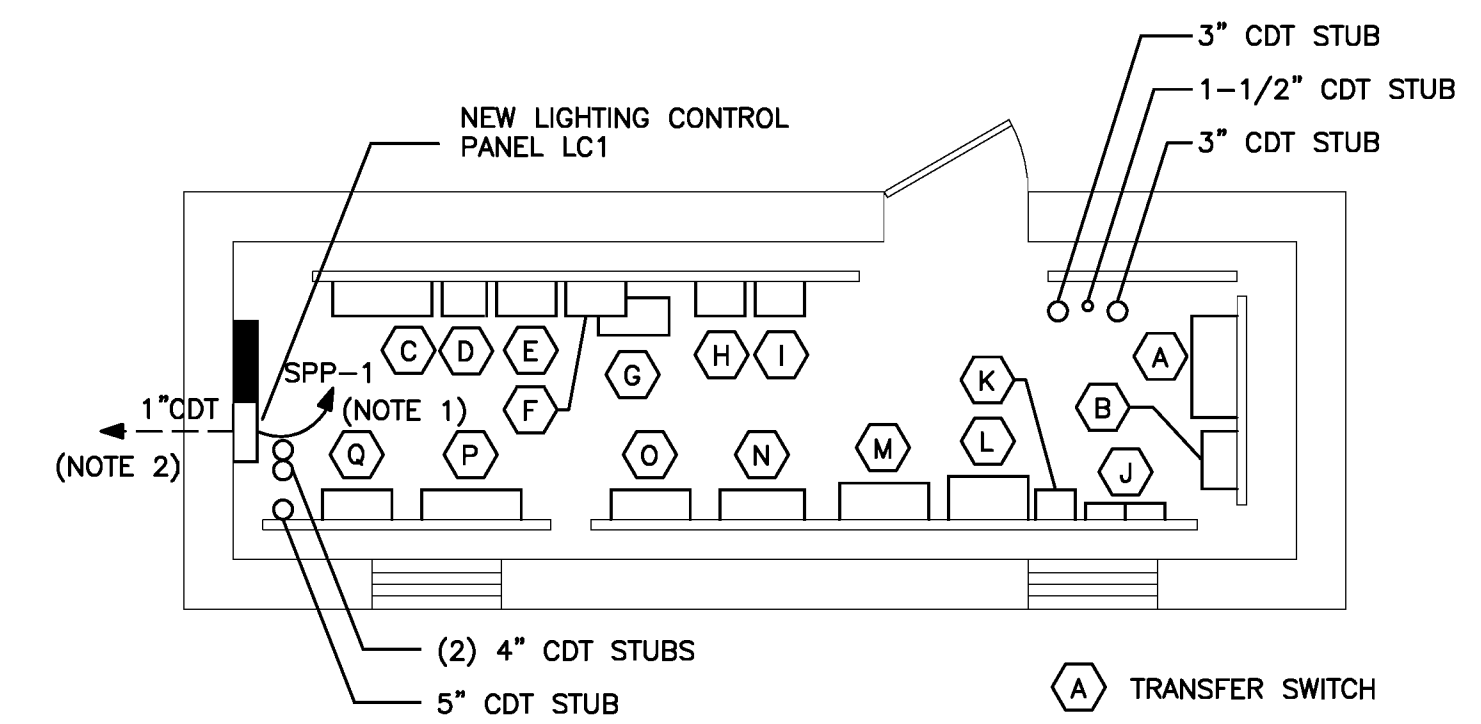
1. PROVIDE A 20A/1P CB TO BE INSTALLED IN EXISTING PANEL LP2 (LOCATED ON THE NORTH WALL OF THE MAINTENANCE BLDG) FOR THE NEW FIRE ALARM PANEL.
2. INSTALL FIRE ALARM RADIO TRANSMITTER BESIDE FIRE ALARM PANEL. EXTEND COMMUNICATIONS CABLE TO ANTENNA ON MAINTENANCE BUILDING ROOF.

**MAINTENANCE/RUBB BUILDING
 FIRE ALARM RISER DIAGRAM**
 NOT TO SCALE



TERMINAL BUILDING ELEC RM
 1/4" = 1'-0"

EXCEPT WHERE OTHERWISE NOTED, ALL EQUIPMENT SHOWN SHALL BE DISCONNECTED AND REMOVED.



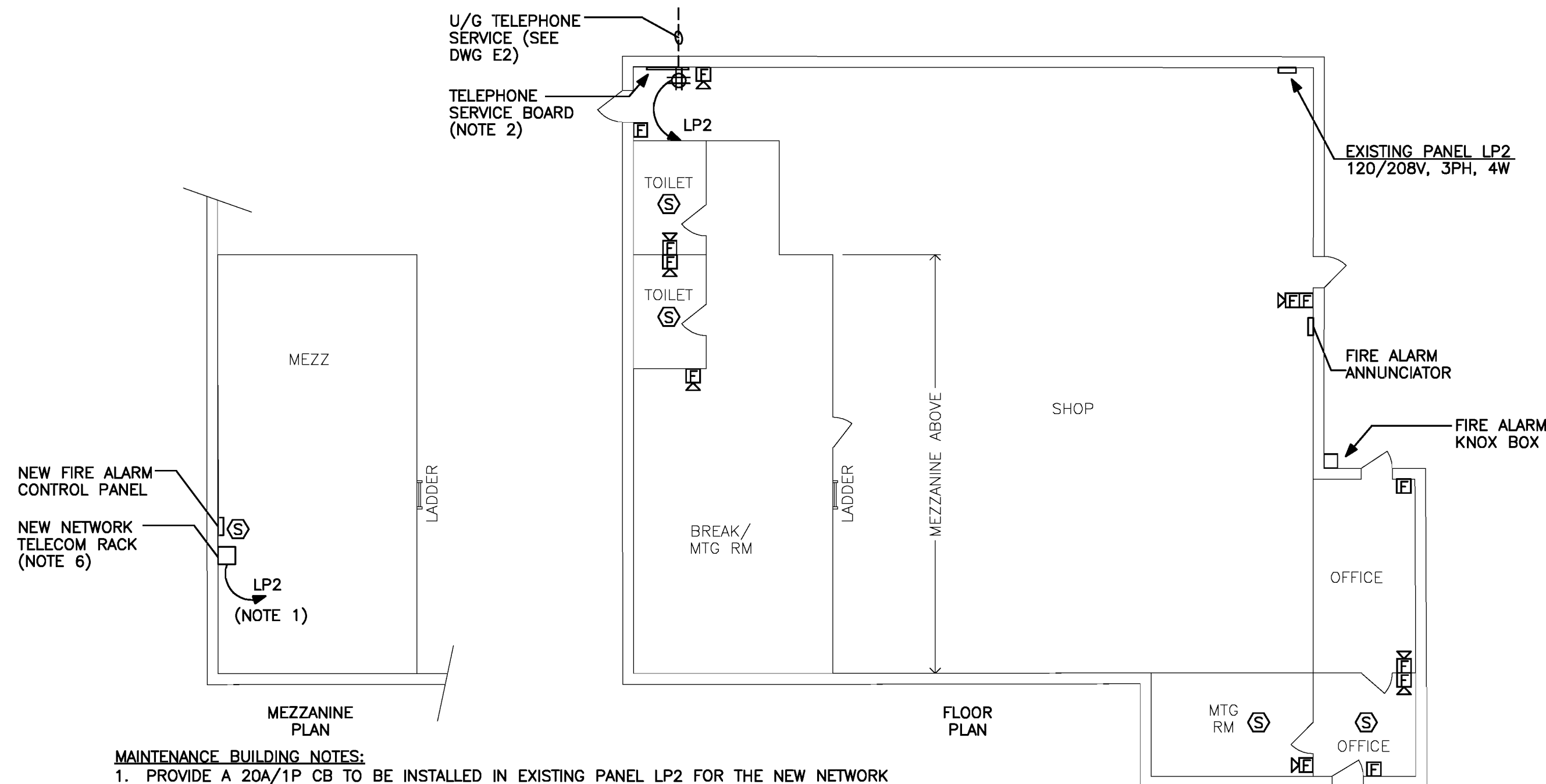
UTILITY BUILDING DETAIL
 1/4" = 1'-0"

EXCEPT WHERE NOTED OTHERWISE, ALL ELECTRICAL EQUIPMENT SHOWN IS EXISTING TO REMAIN

UTILITY BUILDING NOTES:

1. CONNECT LIGHTING CONTROL PANEL LC1 TO A SPARE 20A/1P CB IN PANEL SPP-1
2. PROVIDE A CAT 6 NETWORK CONNECTION FOR THE LIGHTING CONTROL PANEL. EXTEND CABLE TO EXISTING NETWORK RACK IN MAINTENANCE BUILDING.

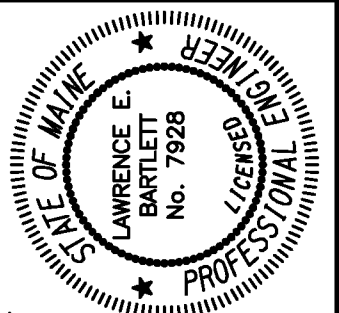
- (A) TRANSFER SWITCH
- (B) PANEL SPP-1 277/480V, 3PH, 4W, 225A
- (C) SERVICE BOX
- (D) SERVICE METER, PANEL PP1
- (E) SERVICE METER, TRUCK HEATER
- (F) 200A FUSED SWITCH TRUCK HEATER
- (G) TRANSFORMER
- (H) SERVICE METER, PANEL SPP-1
- (I) 200A FUSED SWITCH PANEL SPP-1
- (J) LIGHTING CONTACTORS 1 & 2
- (K) 200A FUSED SWITCH
- (L) 50KVA TRANSFORMER
- (M) PANEL PP2 277/480V, 3PH, 4W, 1200A
- (N) CT CABINET
- (O) SERVICE METER
- (P) PANEL PP1 277/480V, 3PH, 4W, 400A
- (Q) PANEL SPP-2 277/480V, 3PH, 4W



MAINTENANCE BUILDING PLAN
 3/32" = 1'-0"

MAINTENANCE BUILDING NOTES:

1. PROVIDE A 20A/1P CB TO BE INSTALLED IN EXISTING PANEL LP2 FOR THE NEW NETWORK TELECOM RACK.
2. PROVIDE A 4'x8'x3/4" PLYWOOD BACKBOARD FOR THE NEW TELEPHONE SERVICE ENTRANCE. PROVIDE A 120V, 20A QUAD RECEPTACLE OUTLET TO BE CIRCUITED TO A NEW 20A/1P CB TO BE INSTALLED IN EXISTING PANEL LP2.
3. NEW CIRCUIT WIRING SHALL BE 2 #12, 1 #12GND, 3/4" CDT.
4. PROVIDE A 25-PAIR CAT 5E CABLE AND A 12-STRAND MULTI-PURPOSE FIBER-OPTIC CABLE BETWEEN THE NEW TELEPHONE SERVICE BOARD AND THE NEW NETWORK RACK AT THE MEZZANINE.
5. PROVIDE NEW 4PR CAT 5E NETWORK CABLE BETWEEN THE EXISTING NETWORK AND PHONE OUTLETS IN THE MEETING ROOM AND THE OFFICES TO THE NEW NETWORK RACK AT THE MEZZANINE.
6. THE NEW NETWORK RACK SHALL INCLUDE A 48-PORT PATCH PANEL, A SURGE PROTECTED POWER STRIP, AND A RACK MOUNTED UPS.
7. PROVIDE NEW (REPLACEMENT) FIRE ALARM DEVICES AS SHOWN. CONNECT NEW FIRE ALARM DEVICES TO THE NEW FIRE ALARM CONTROL PANEL.



Lawrence E. Bartlett
 SIGNATURE
 7928 P.E. NUMBER
 09/25/11 DATE

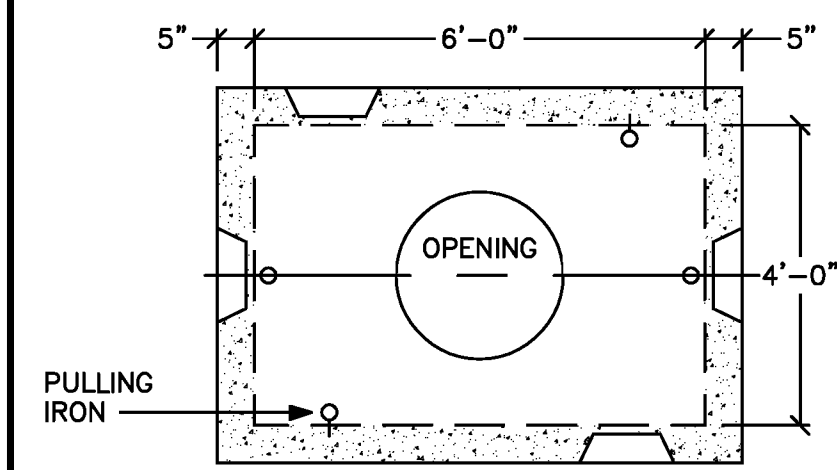
DATE	BY	PROJ. MGR.	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/25/11	JLC	CRAIG R. MORIN	LEB	LEB	LEB	-	-	-	-	-
3/25/11	LEB									

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 ELECTRICAL DETAILS - 2

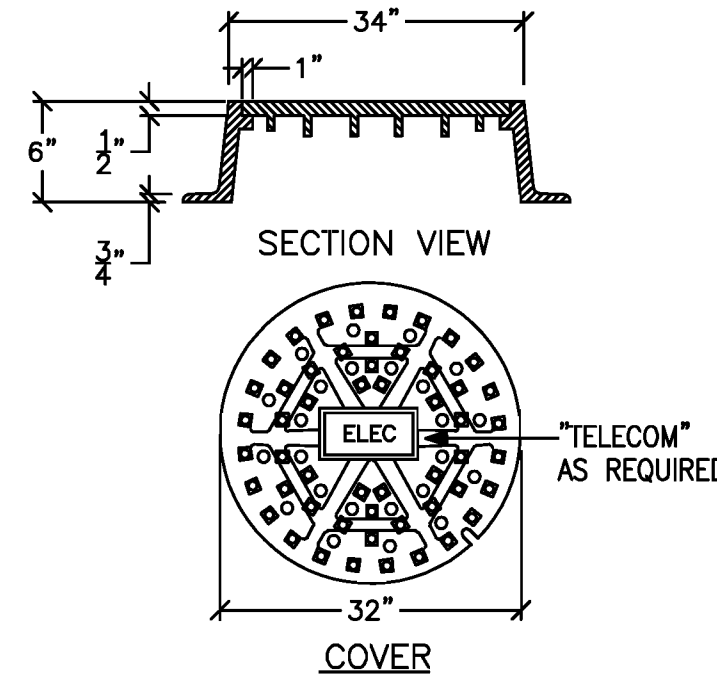
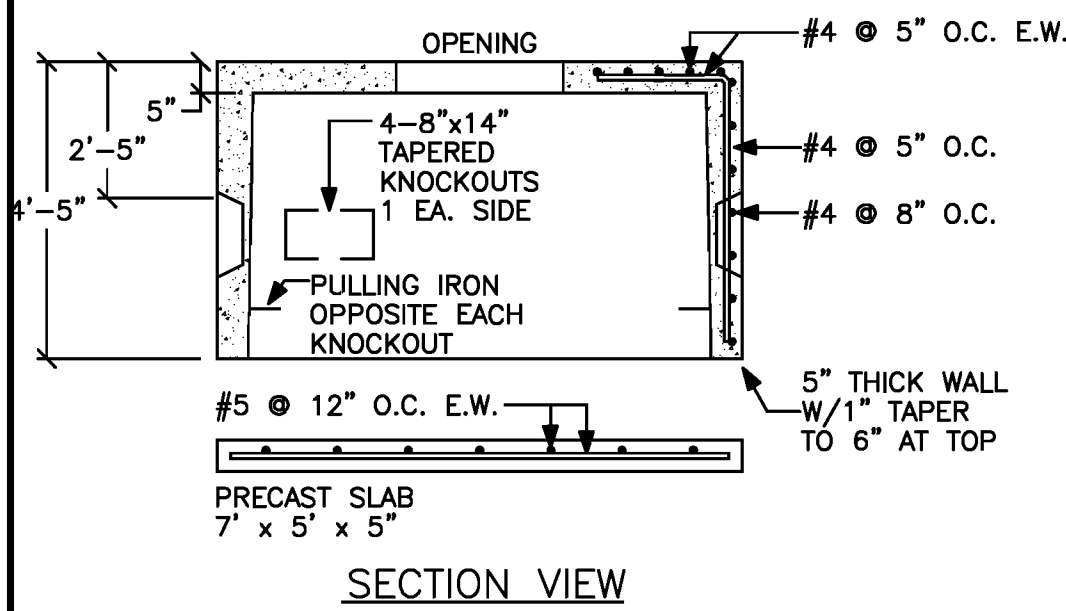
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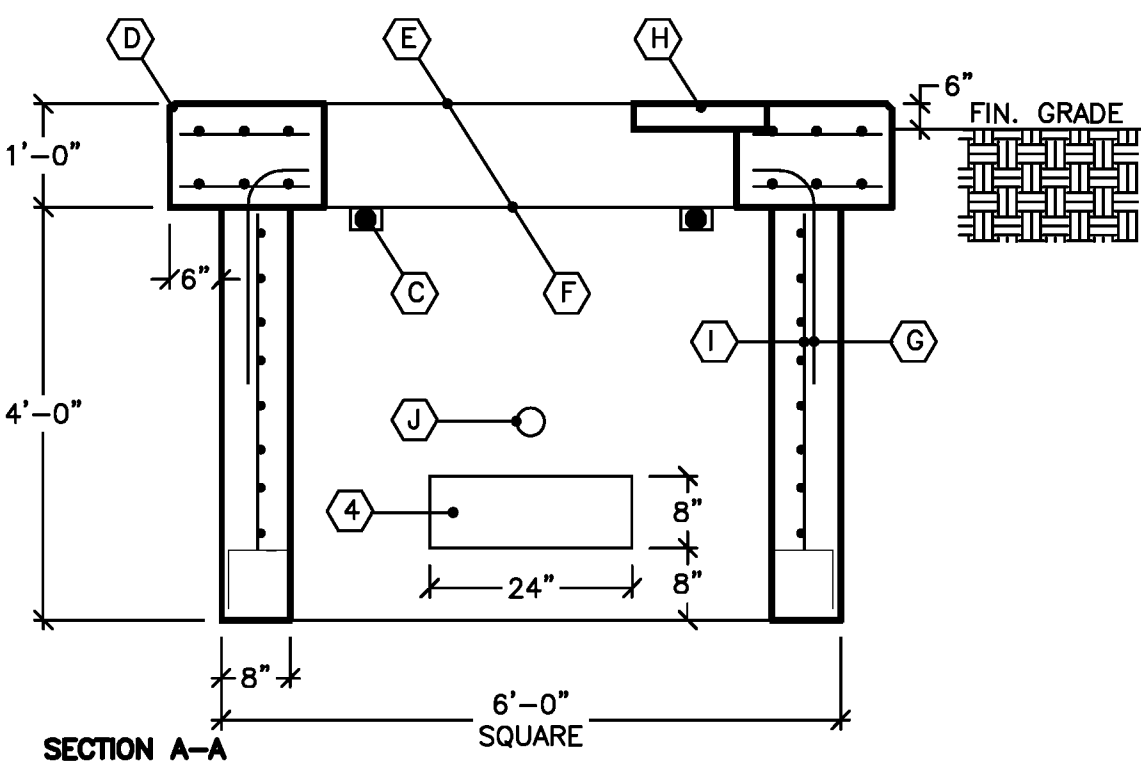
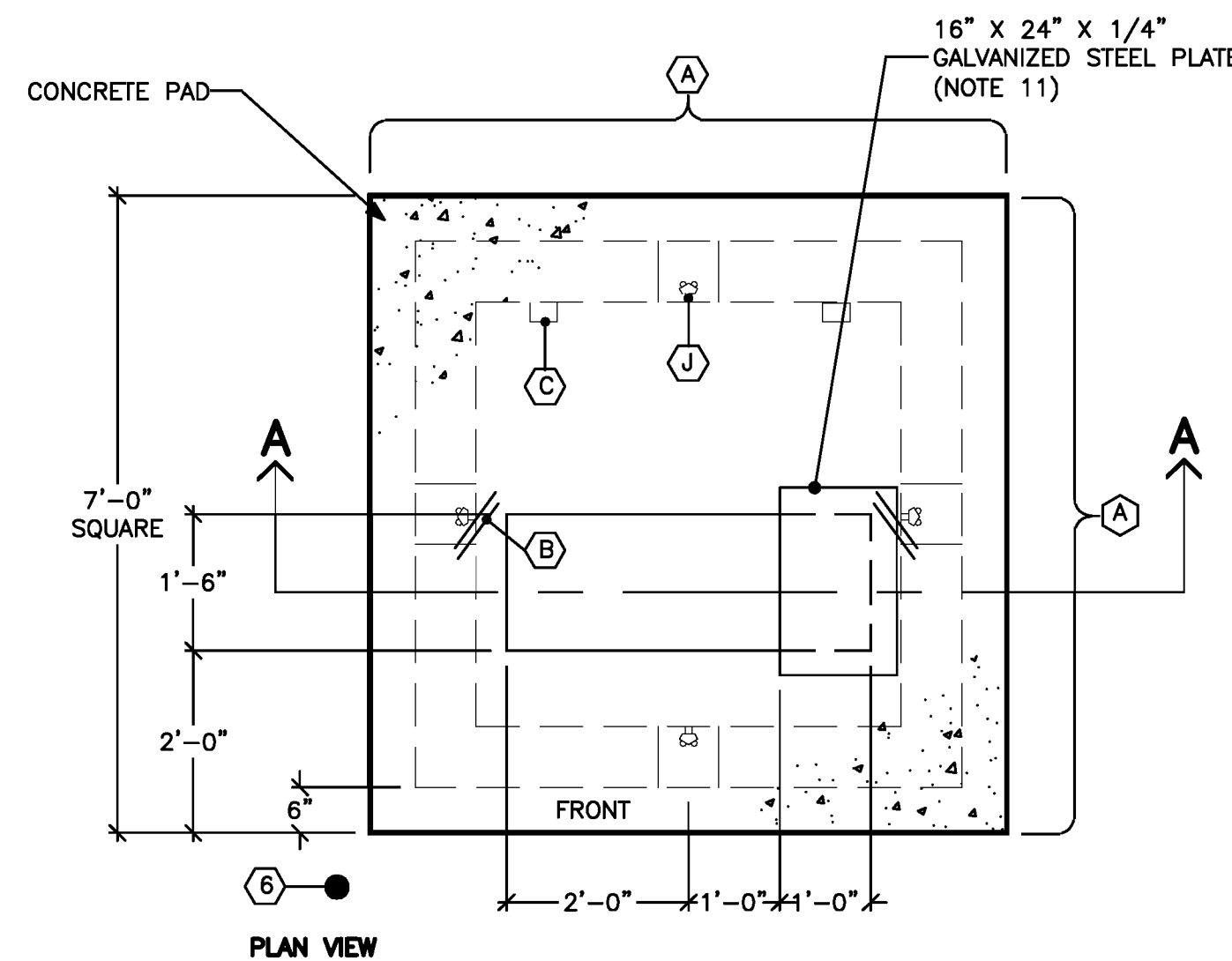
CABLE TV/TELEPHONE MANHOLE DETAIL NOTES:
 1. CONCRETE: 4,000 PSI @ 28 DAYS.
 2. USE 3/2" COVER AND FRAME MARKED ELEC OR COMM AS REQUIRED. MINIMUM ONE COURSE BRICK TO GRADE.



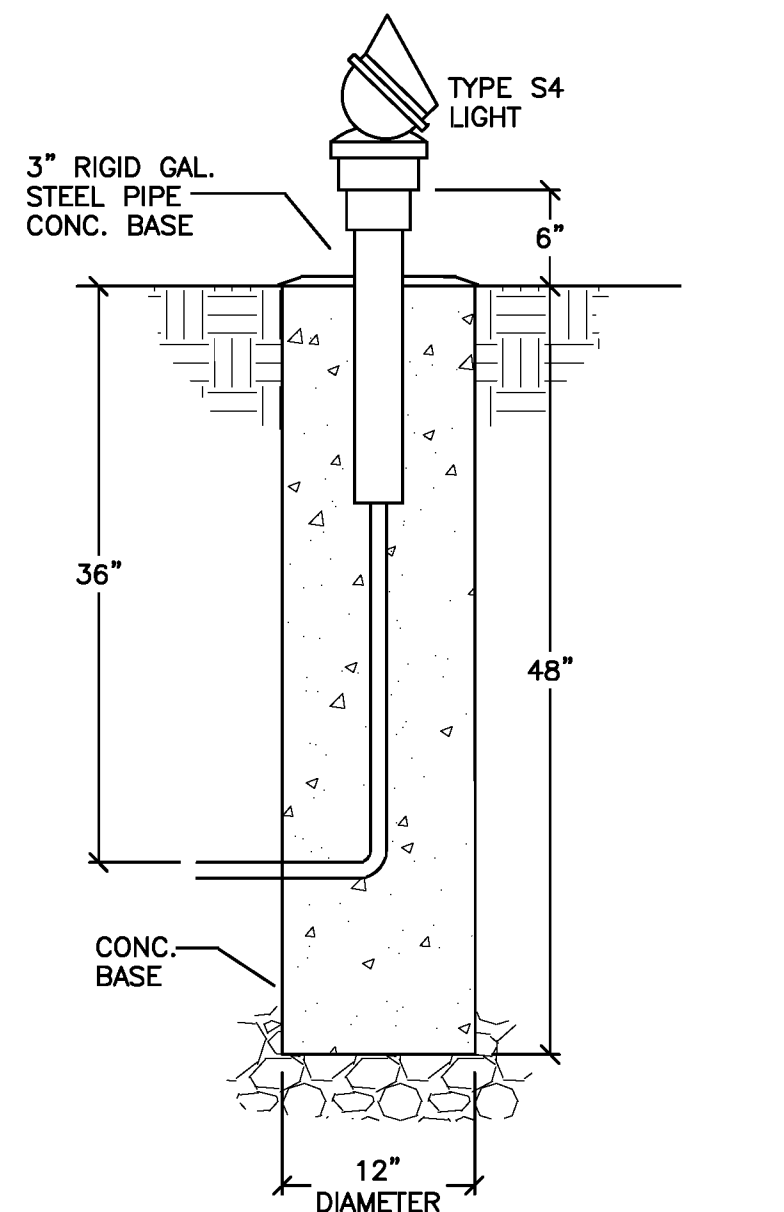
- MOUNTINGS FOR CABLE RACKS ECT, CAST IN WALL BY FUTURE PLANS OR FIELD LOCATED.
- SPLICE BOX SHALL BE SET ON A SUITABLE GRAVEL BASE.
- REINFORCING: GRADE 60 REBAR:
 - REINFORCING PLACED IN CENTER IF CONCRETE SLAB, WALLS, & ROOF.
 - #4 @ 5" O.C. VERTICAL IN WALLS, CANTILEVERED OVER TOP OF OPENING
 - #4 @ 8" O.C. HORIZONTALLY IN WALLS
 - 4 PIECES #4 SURROUNDING OPENING
 - #4 @ 5" O.C. EACH WAY ON TOP
- MANHOLE FRAMES AND COVERS ARE TO BE MACHINED TO A SMOOTH FIT AND SHALL BE OF GRAY CAST IRON.
- COVER SHALL HAVE DIAMOND TOP SURFACE.



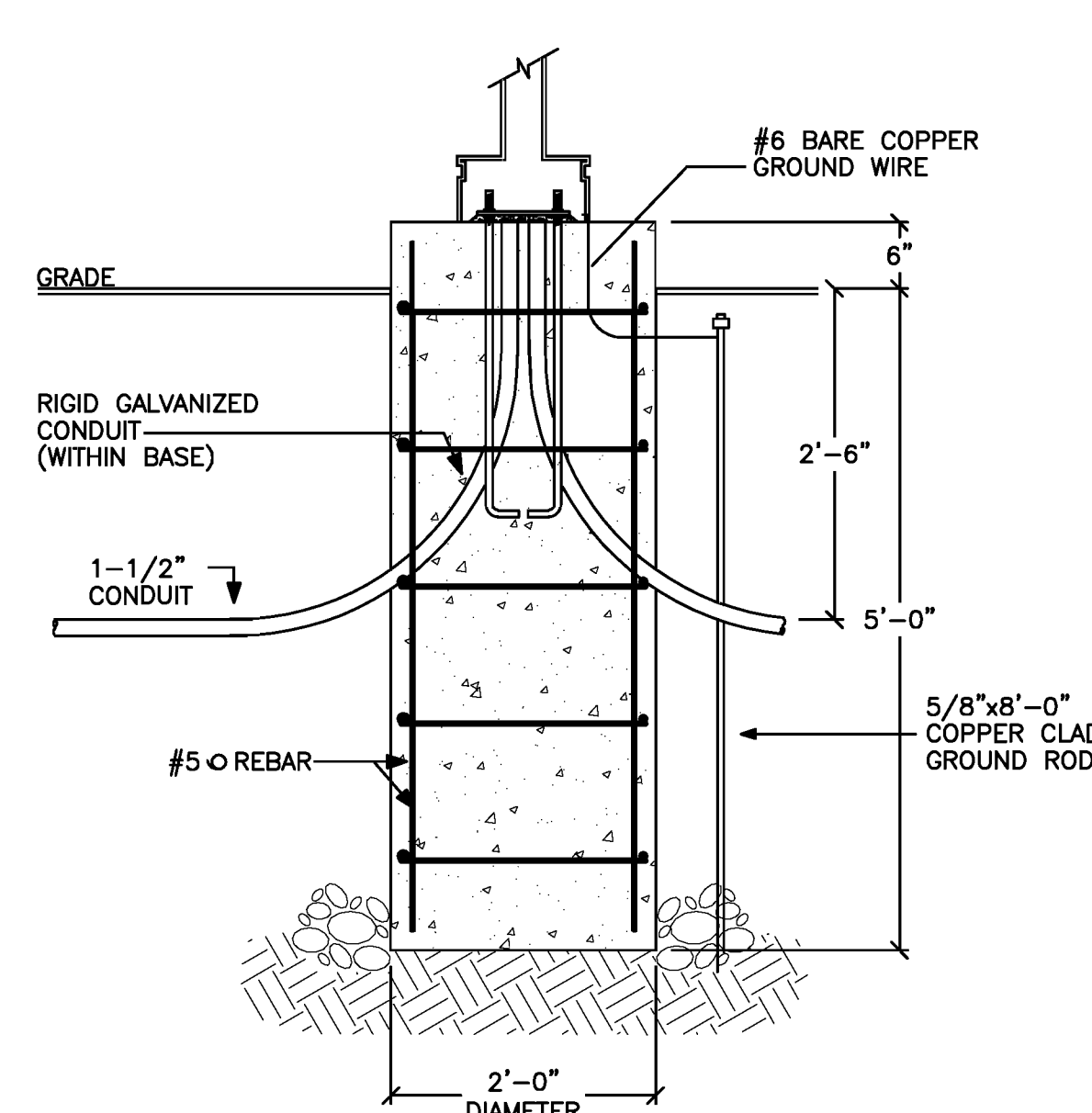
TELECOMMUNICATIONS WIRING BOX
 NOT TO SCALE



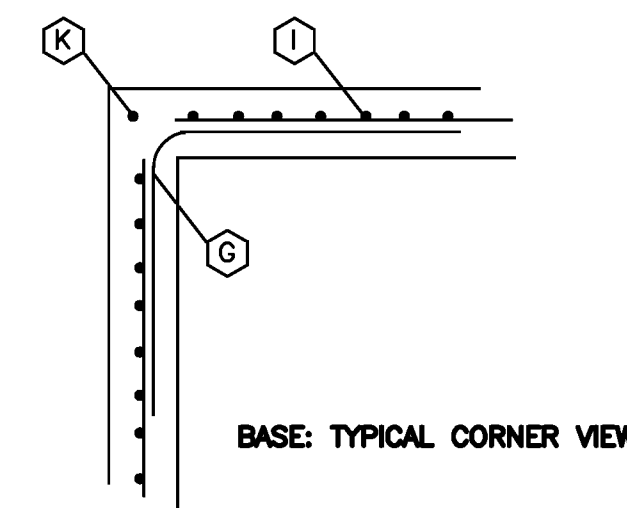
THREE PHASE TRANSFORMER PAD DETAIL 7FT SQ.
 NOT TO SCALE



TYPE S4 FOUNDATION DETAIL
 1" = 1'-0"

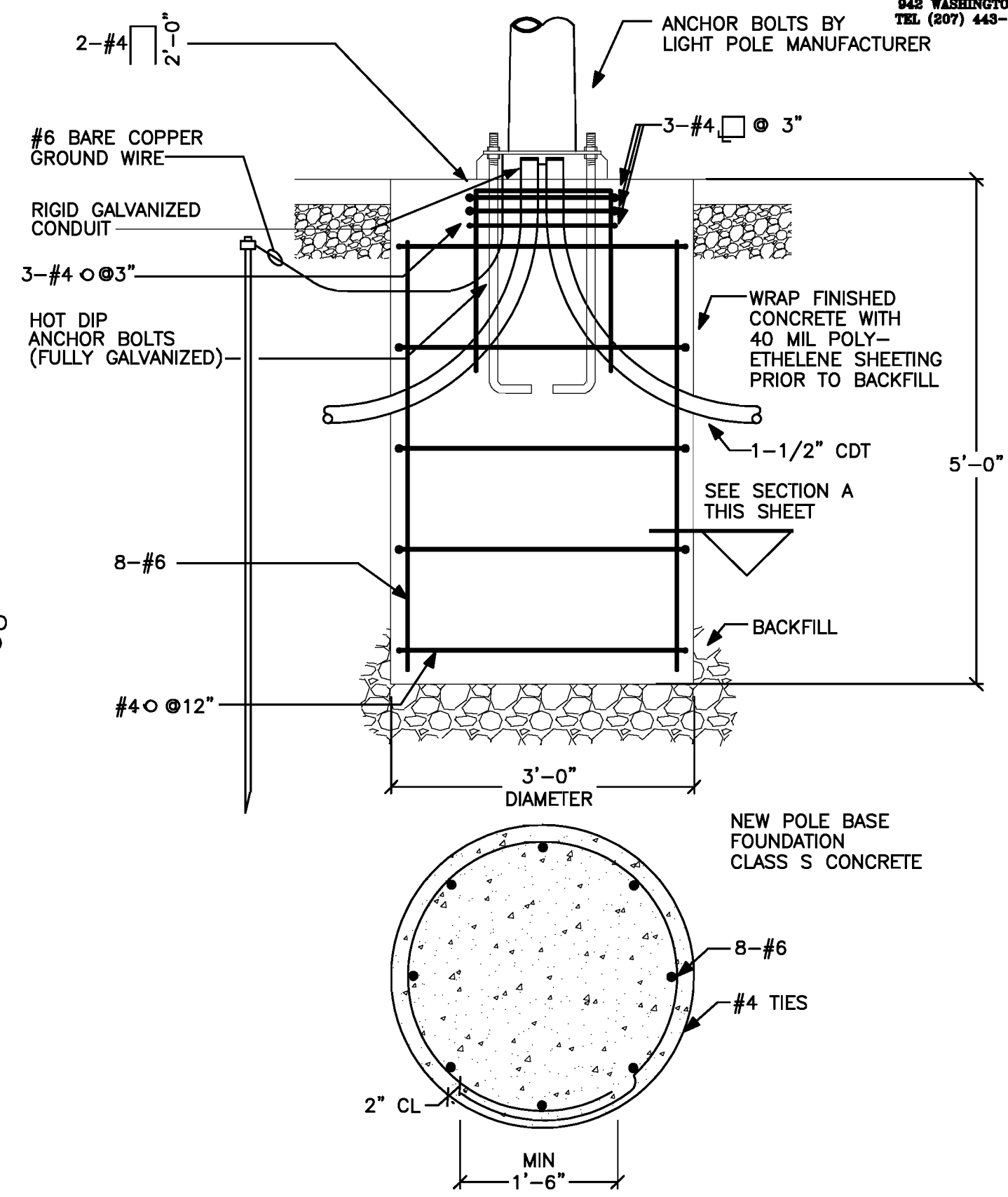


POLE FOUNDATION DETAIL - 3
 3/4" = 1'-0"
 TYPICAL FOR POLE TYPE S3



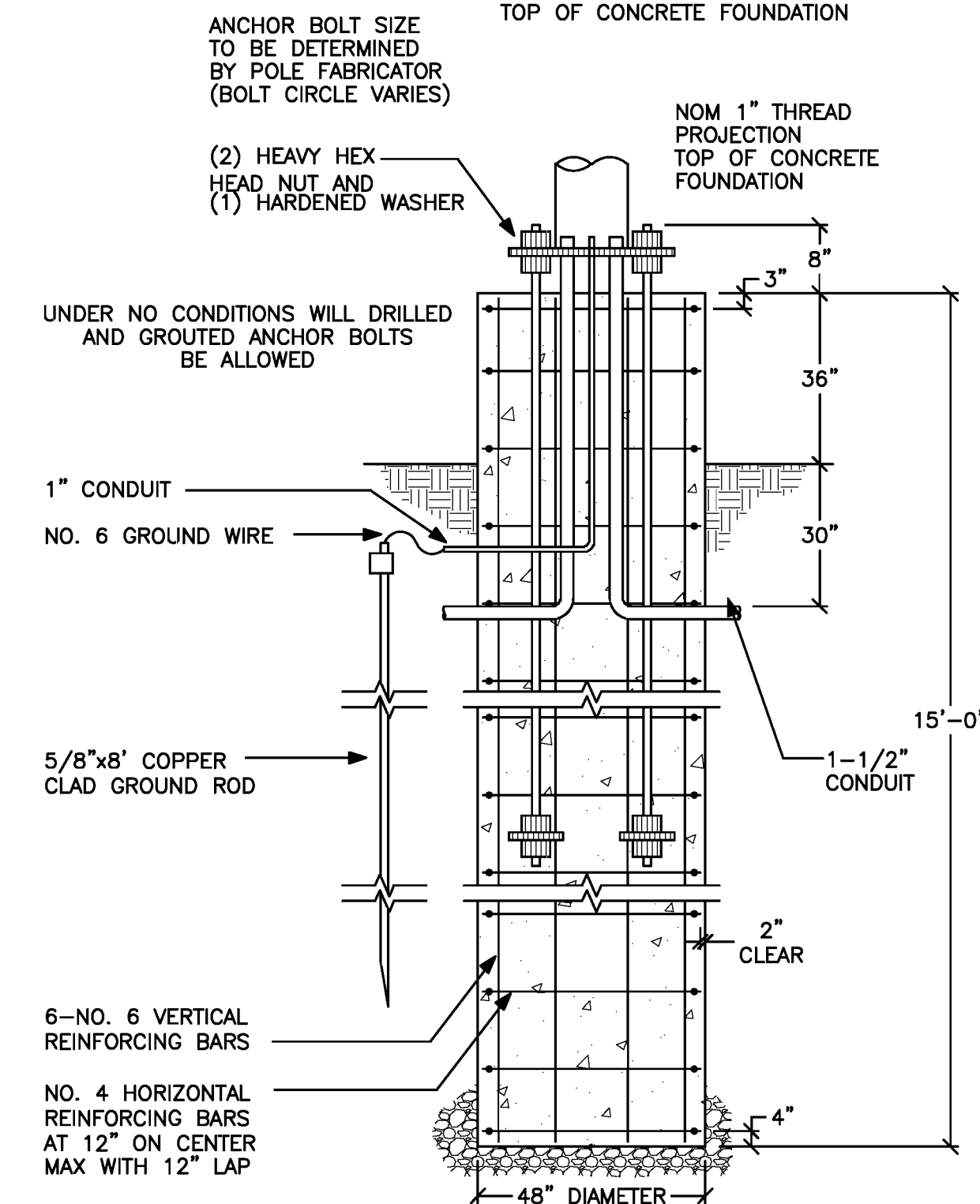
TRANSFORMER PAD DETAIL NOTES:

- "FRONT" DENOTES THE SIDE ON WHICH THE ACCESS DOORS ARE LOCATED. THE CONCRETE BASE SHALL BE SET ON A SUITABLE GRAVEL BASE AND LOCATED SO THE FRONT IS ACCESSIBLE BY TRUCK AND SUITABLY PROTECTED FROM PLOW AND TRAFFIC DAMAGE.
 - BEFORE INSTALLING OR REQUIRING ANY ACTIVE DRAINAGE STRUCTURE (EG. DRAIN PIPE) INTO THE FOUNDATION OR PAD, THE CONTRACTOR, CMP LINE SUPERVISOR, OR CMP DISTRIBUTION ENGINEER MUST CONTACT CENTRAL MAINE POWER COMPANY'S ENVIRONMENTAL SERVICES DEPARTMENT AT 623-3521 EXT 3479 TO REQUEST A SITE INSPECTION.
 - FINISH GRADE SHALL BE GRADED IN SUCH A MANNER TO ALLOW SURFACE WATER TO FLOW AWAY FROM THE PAD.
 - PROVIDE 8" X 24" CABLE HOLES (BOND OUTS) 8" UP THE WALL FROM THE BASE. LOCATE ONE CABLE HOLE PER WALL, MORE IF NECESSARY. LINE UP CABLE HOLES WITH TRENCH.
 - CONDUITS ENTERING CONCRETE STRUCTURES SHALL BE SET BACK FROM THE INSIDE WALL 1 TO 2 INCHES AND THE SPACE WITHIN THE KNOCKOUT SURROUNDING THE CONDUITS COMPLETELY FILLED WITH MORTAR TO PREVENT SOIL FROM ENTERING STRUCTURE. INSIDE THE STRUCTURE THE MORTAR SHALL BE FINISHED AND BEVELED FROM THE CONDUIT ENDS TO THE INSIDE WALL FACE TO COVER AND SMOOTH THE EDGES OF THE KNOCKOUTS.
 - A 3/4" X 8'-0" GALVANIZED GROUND ROD IS TO BE INSTALLED SIX INCHES IN FRONT OF THE FRONT CORNER OF THE FOUNDATION. THE TOP OF THE GROUND IS TO BE 6" BELOW FINAL GRADE.
 - A GROUND WIRE SHALL BE INSTALLED FROM THE GROUND ROD THROUGH THE CABLE HOLE AT THE BOTTOM OF THE PAD. 10 FEET OF GROUND WIRE SHALL BE PROVIDED SO THAT IT CAN BE INSTALLED THROUGH THE TWO GROUNDING LUGS AND CONNECTED TO THE NEUTRAL SPADE.
 - CONCRETE COMPRESSION STRENGTH SHALL BE 4000 PSI @ 28 DAYS. FOR CAST IN PLACE EARLY HIGH STRENGTH MAY BE USED WITH A MINIMUM OF SEVEN DAY CURE TIME.
 - REINFORCING STEEL TO HAVE: F_y = 60 KSI.
 - FOR PRECAST UNITS: THE PRECAST SUPPLIER SHALL PROVIDE LIFTING LUGS IN THE SLAB (FOUNDATION) AND BASE; THE PRECAST SUPPLIER SHALL ASSEMBLE THE SLAB TO THE BASE PRIOR TO SHIPPING TO THE SITE TO ENSURE THAT THE SLAB AND THE BASE FIT PROPERLY (WITH NO ROCKING OF THE SLAB EVIDENT).
 - 1 16" X 24" X 1/4" GALVANIZED STEEL PLATE TO COVER A PORTION OF THE CABLE HOLE WHEN THE TRANSFORMER DOES NOT COMPLETELY COVER IT. CUT THE STEEL PLATE TO FIT IF NECESSARY.
- A. 7-#5 REBAR EVENLY SPACED EACH WAY TOP TO BOTTOM
 B. 2-#4 CORNER DIAGONAL REBAR 2'-0" LONG TOP AND BOTTOM
 C. 4" X 4" X 1/2" ANGLE 6" LONG WITH 2-3/4" DIAMETER EXPANSION ANCHORS TYPICAL - 4 PLACES (TWO PIECE PRECAST ONLY)
 D. CHAMFER TYPICAL
 E. 2" CONCRETE COVER OVER TOP REBAR
 F. 3" CONCRETE COVER OVER BOTTOM REBAR
 G. #5 L-BAR @ 12" (CAST IN PLACE ONLY)
 H. 16" X 24" X 1/4" GALVANIZED STEEL PLATE. MID #6000621790
 I. #5 REBAR ON 12" CENTERS
 J. PULLING EYE INSERT, FOR USE WITH 3/4" NATIONAL COURSE THREAD EYE-BOLT, (RICHMOND LCB-1 OR EQUIVALENT), LOCATED OPPOSITE EACH CABLE HOLE AND 2 FEET FROM THE BOTTOM.
 K. ALL REBAR ENDS TO BE COVERED BY 1" OF CONCRETE MINIMUM.

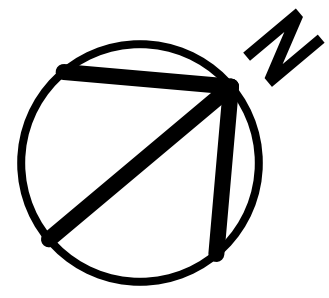


POLE FOUNDATION DETAIL - 2
 NOT TO SCALE
 TYPICAL FOR POLE TYPE FL4

NOTE: TOP NOT TO BE TORQUED TO PRODUCE 60% YIELD STRESS OF ANCHOR BOLT
 NOTE: DO NOT GROUT BETWEEN BOTTOM OF BASE PLATE AND TOP OF CONCRETE FOUNDATION



POLE FOUNDATION DETAIL - 1
 3/8" = 1'-0"
 TYPICAL FOR POLE TYPES S1 & S2



LEGEND

- X.X Indicates window number. Refer to Window Schedule on A.A8.
- X Indicates partition type. Refer to A.A10 for details.
- xxx.x Indicates door number. Refer to Door Schedule on A.A9.
- F.E. Indicates Fire Extinguisher. Provide blocking.

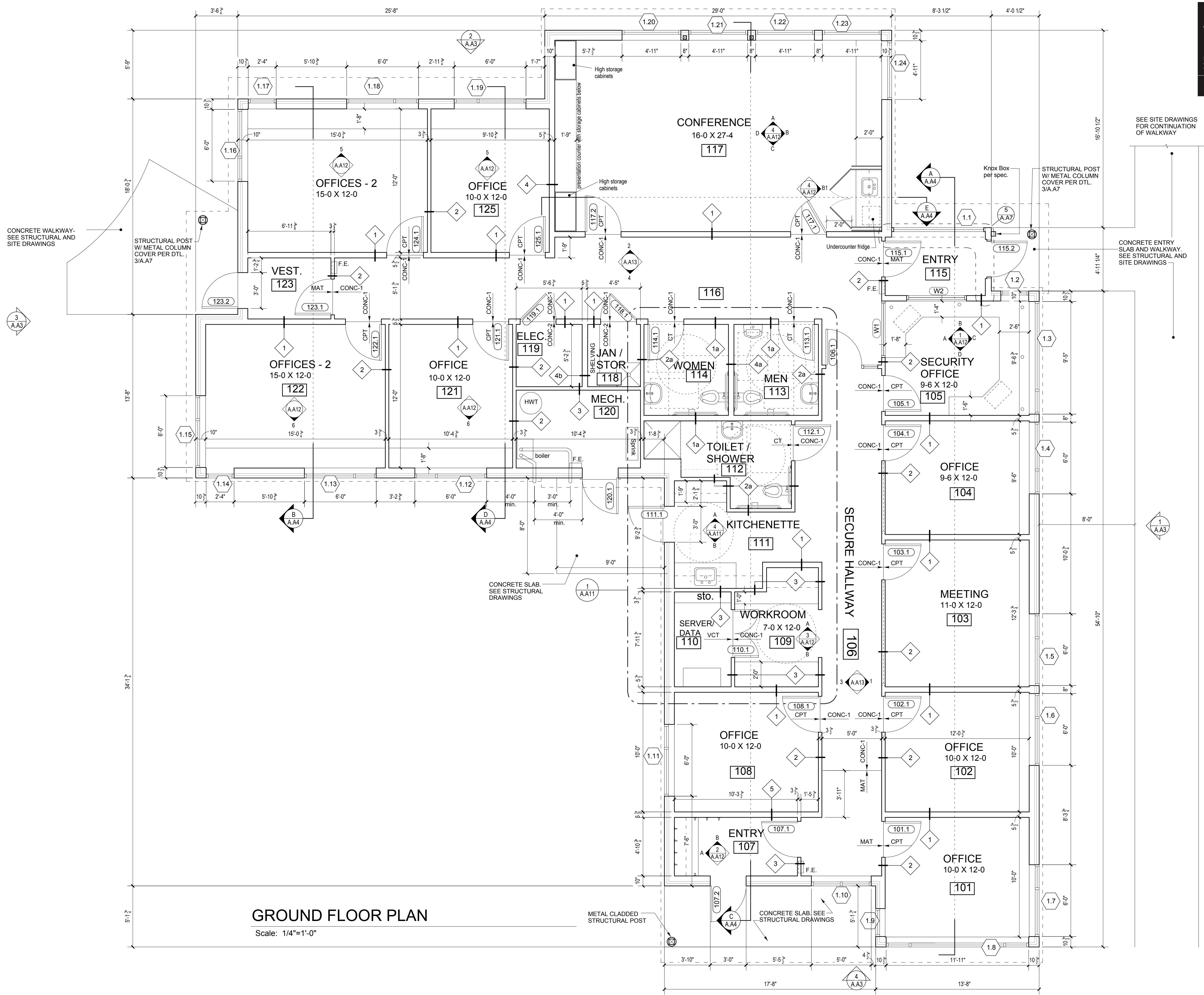
Fire Extinguishers shall be semi-recessed cabinets except in Mechanical Room 120 where it shall be mounted on wall brackets.

Number and final location of fire extinguishers shall be reviewed and approved by Portland Fire Department before installation.

- Indicates built-in cabinets / millwork
- Indicates interior bearing wall

MAT → CONC-1 Indicates floor finish transition

CONC-1 Stained & sealed decorative concrete floor
 CONC-2 Sealed concrete floor
 CPT Carpet
 MAT Entry Carpet
 CT Ceramic Tile
 VCT Conductive vinyl composition tile



GROUND FLOOR PLAN
 Scale: 1/4"=1'-0"

Winton Scott Architects

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 01782.00

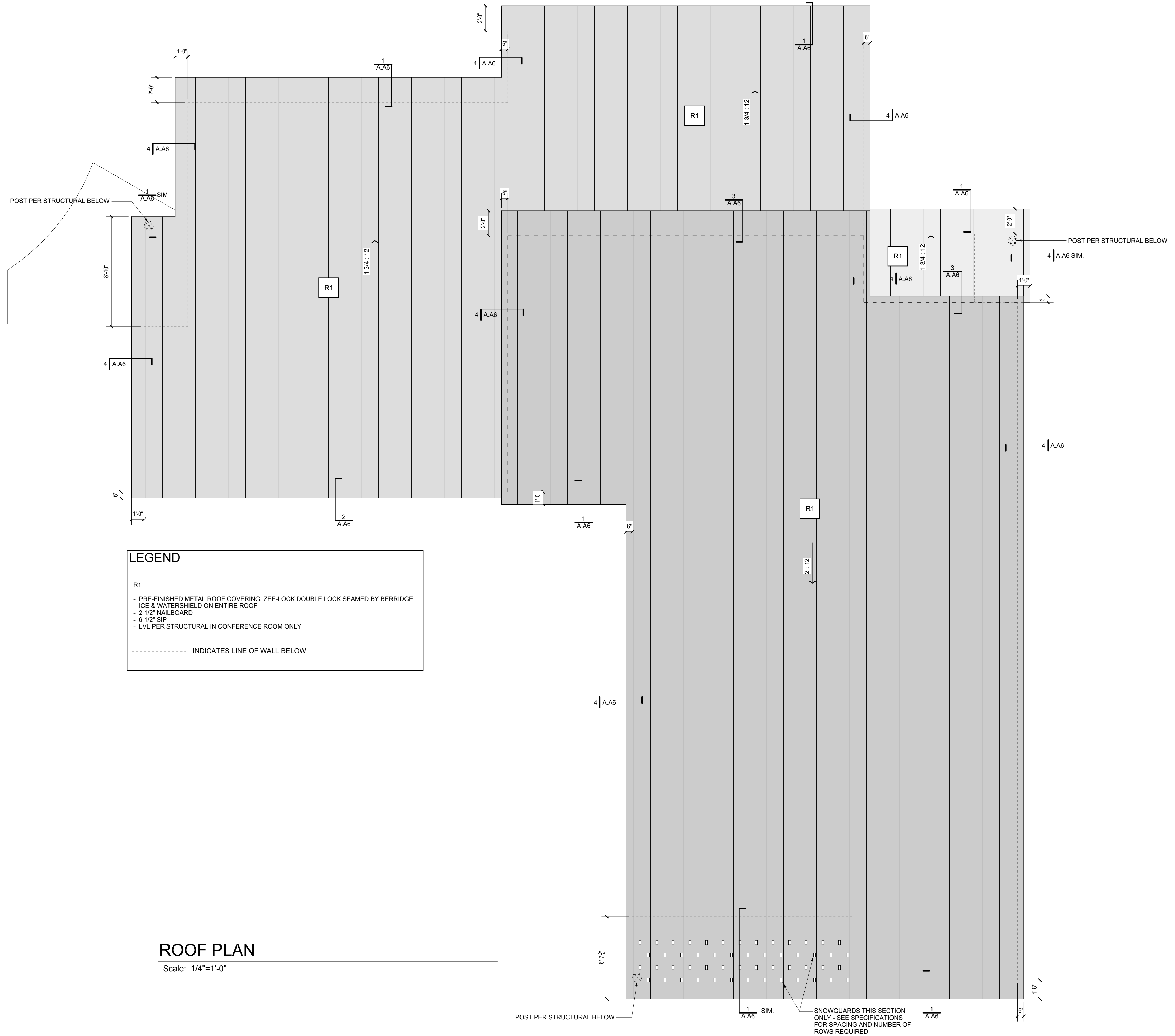
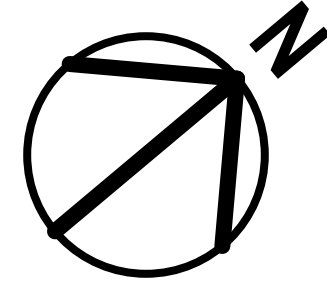


PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
CRAIG MORIN		3/25/11		#793	3/25/11
DESIGN-DETAILED					
CHECKED-REVIEWED					
DESIGN-2/DETAILED					
DESIGNING-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 BUILDING FLOOR PLANS

SHEET NUMBER

A.A1



LEGEND

R1

- PRE-FINISHED METAL ROOF COVERING, ZEE-LOCK DOUBLE LOCK SEAMED BY BERRIDGE
- ICE & WATERSHIELD ON ENTIRE ROOF
- 2 1/2" NAILBOARD
- 6 1/2" SIP
- LVL PER STRUCTURAL IN CONFERENCE ROOM ONLY

----- INDICATES LINE OF WALL BELOW

ROOF PLAN

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



DATE	BY	SIGNATURE	P.E. NUMBER	DATE
3/25/11				

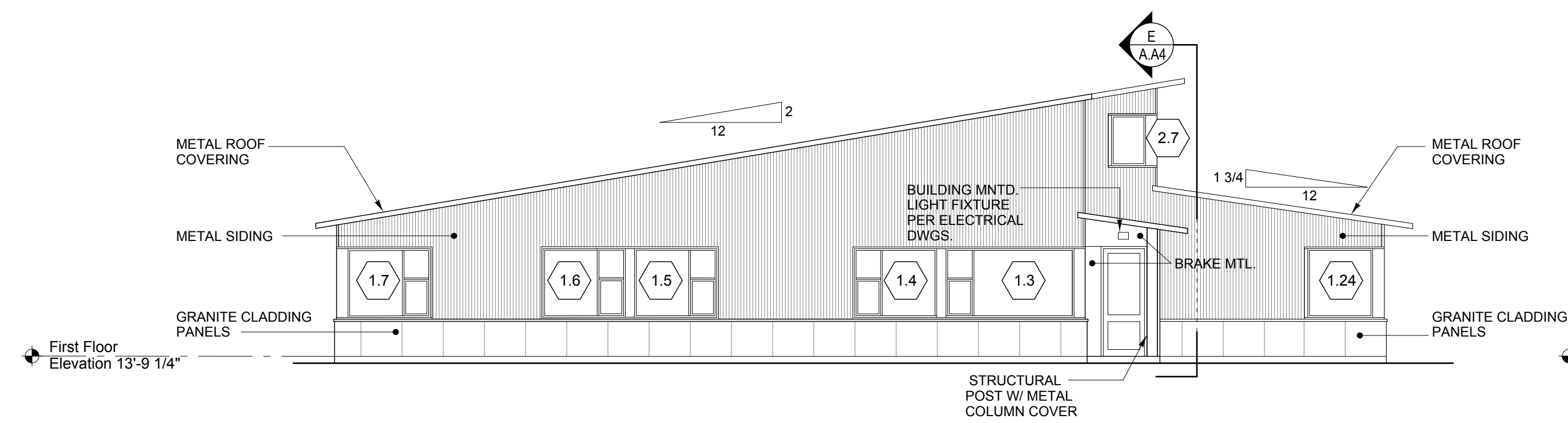
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DESIGN-DETAILED	ML		
CHECKED-REVIEWED	SWW		
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 BUILDING ROOF PLAN

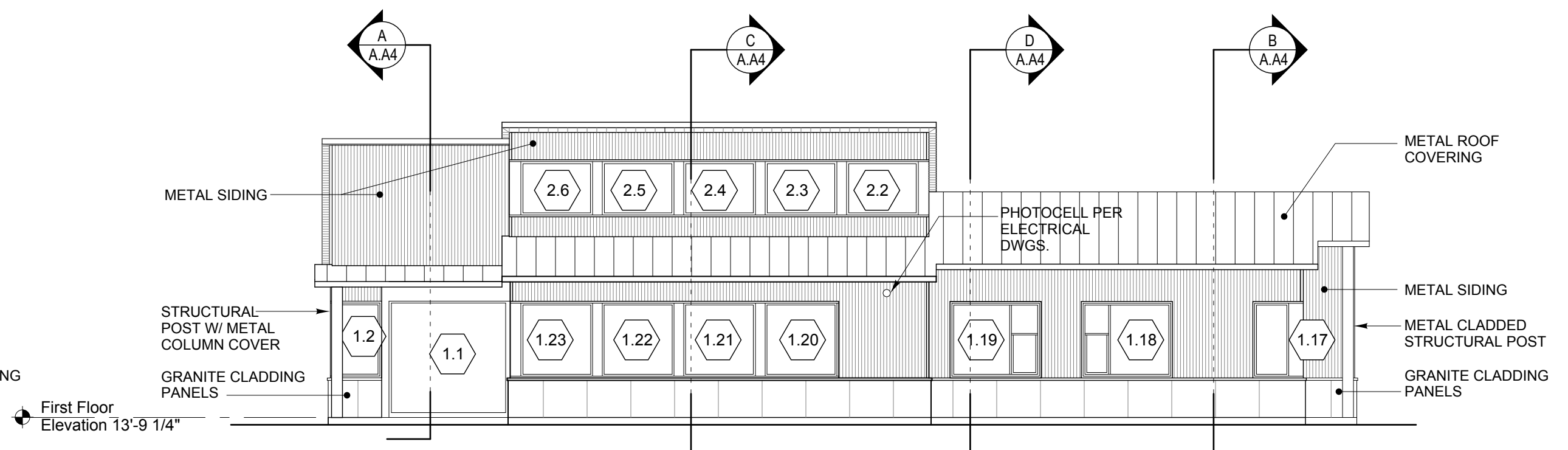


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DESIGN-DETAILED	ML	BY	
CHECKED-REVIEWED	SWW	SIGNATURE	
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REVISIONS 1		DATE	3/26/11
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
FIELD CHANGES		DATE	

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
BUILDING ELEVATIONS

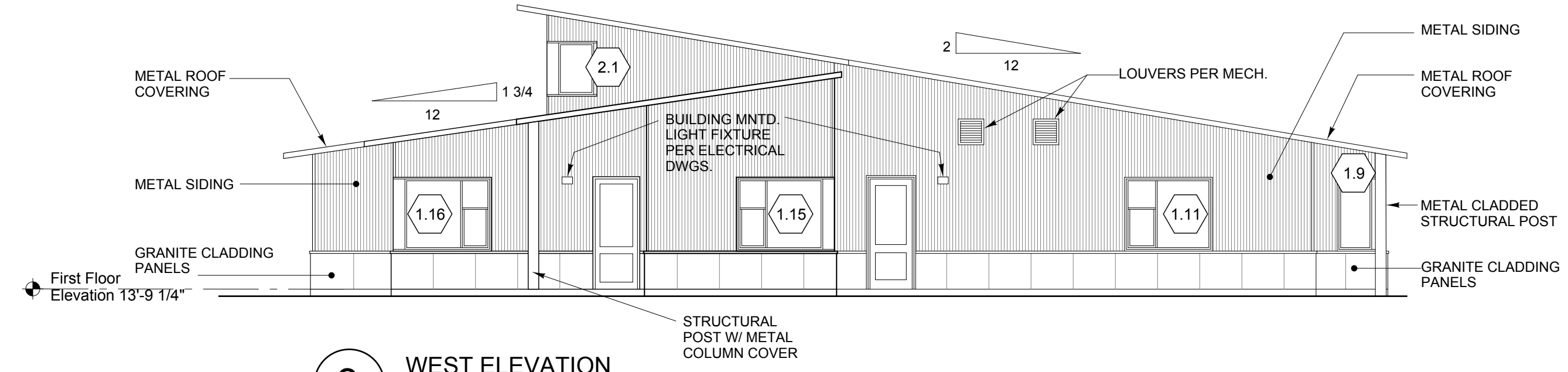


1 EAST ELEVATION
SCALE: 1/8" = 1'-0"

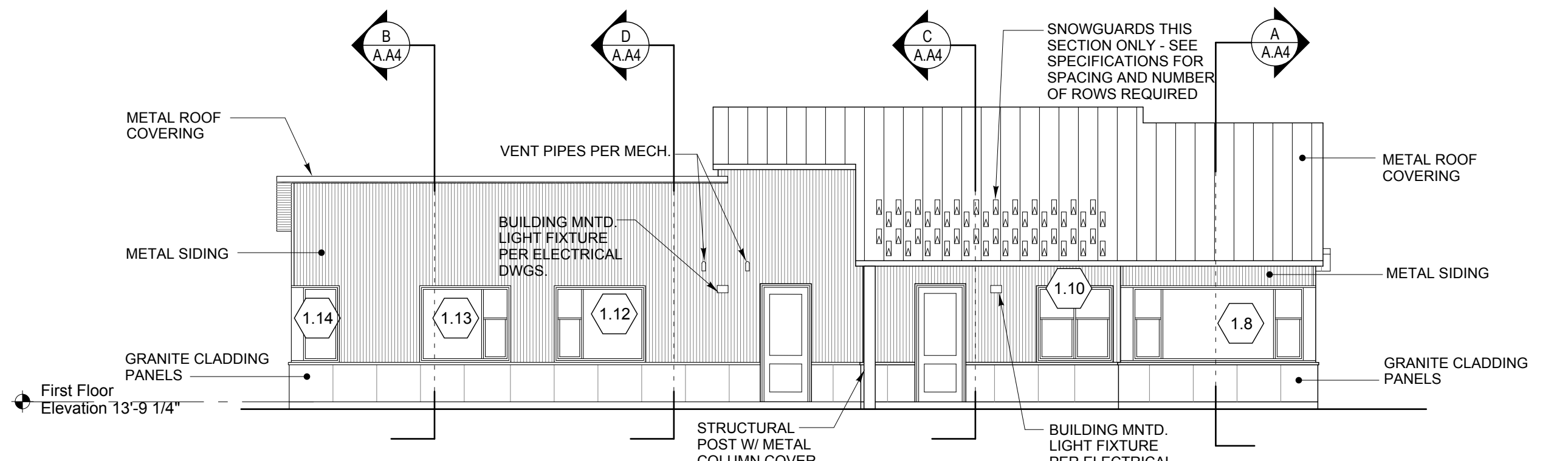


2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

NOTE:
COORDINATE CONDENSATE DRAIN PENETRATIONS THROUGH GRANITE PANELS. SEE MECHANICAL DRAWINGS.



3 WEST ELEVATION
SCALE: 1/8" = 1'-0"



4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

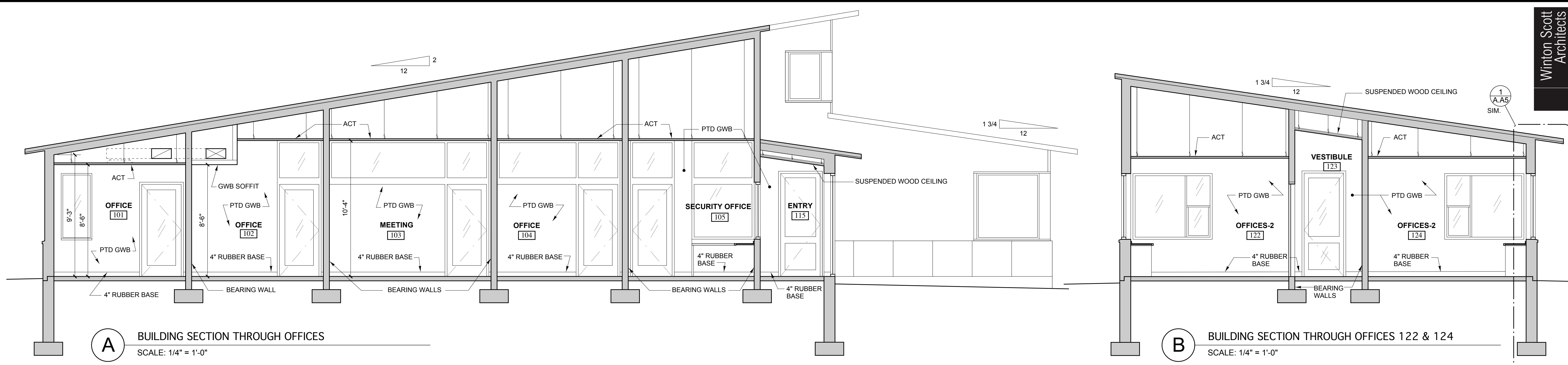


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DESIGN DETAILER	ML	BY	
CHECKED/REVIEWED	SWW	SIGNATURE	
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REVISIONS 1		DATE	3/25/11
REVISIONS 2		DATE	
REVISIONS 3		DATE	
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FIELD CHANGES		DATE	

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
BUILDING SECTIONS

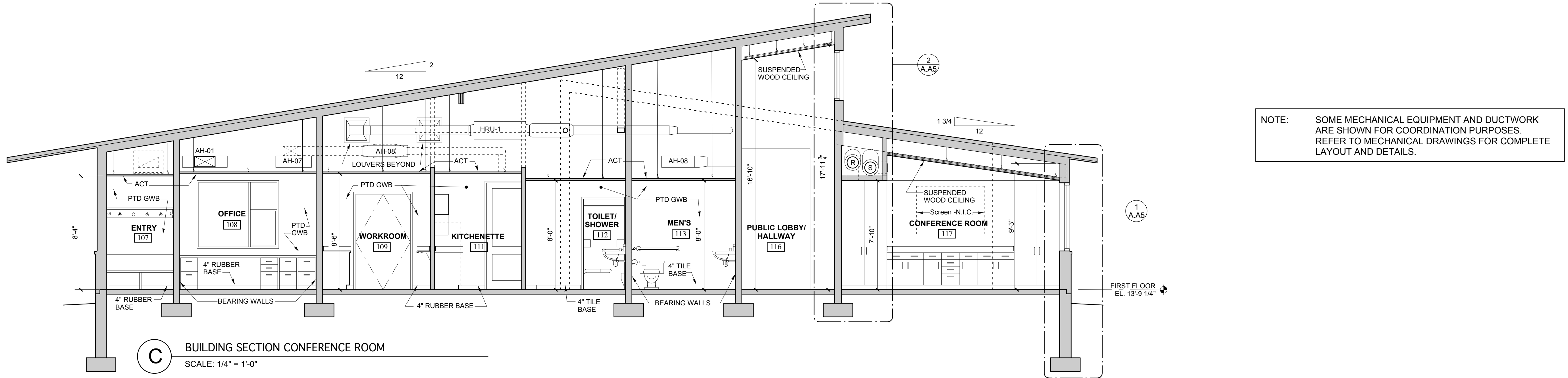
SHEET NUMBER

A.A4



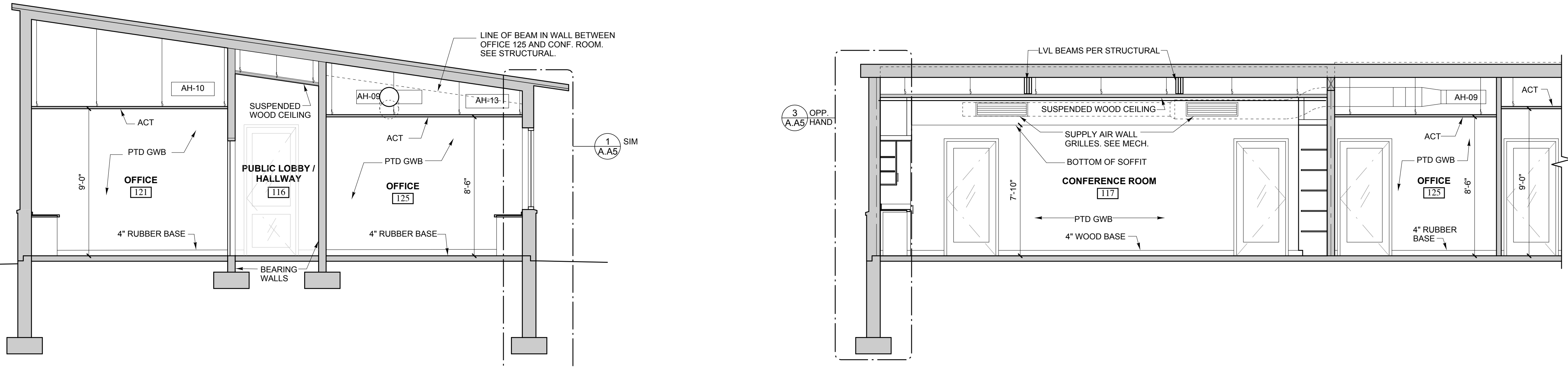
A BUILDING SECTION THROUGH OFFICES
SCALE: 1/4" = 1'-0"

B BUILDING SECTION THROUGH OFFICES 122 & 124
SCALE: 1/4" = 1'-0"



NOTE: SOME MECHANICAL EQUIPMENT AND DUCTWORK ARE SHOWN FOR COORDINATION PURPOSES. REFER TO MECHANICAL DRAWINGS FOR COMPLETE LAYOUT AND DETAILS.

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



D BUILDING SECTION THROUGH OFFICES 121 & 125
SCALE: 1/4" = 1'-0"

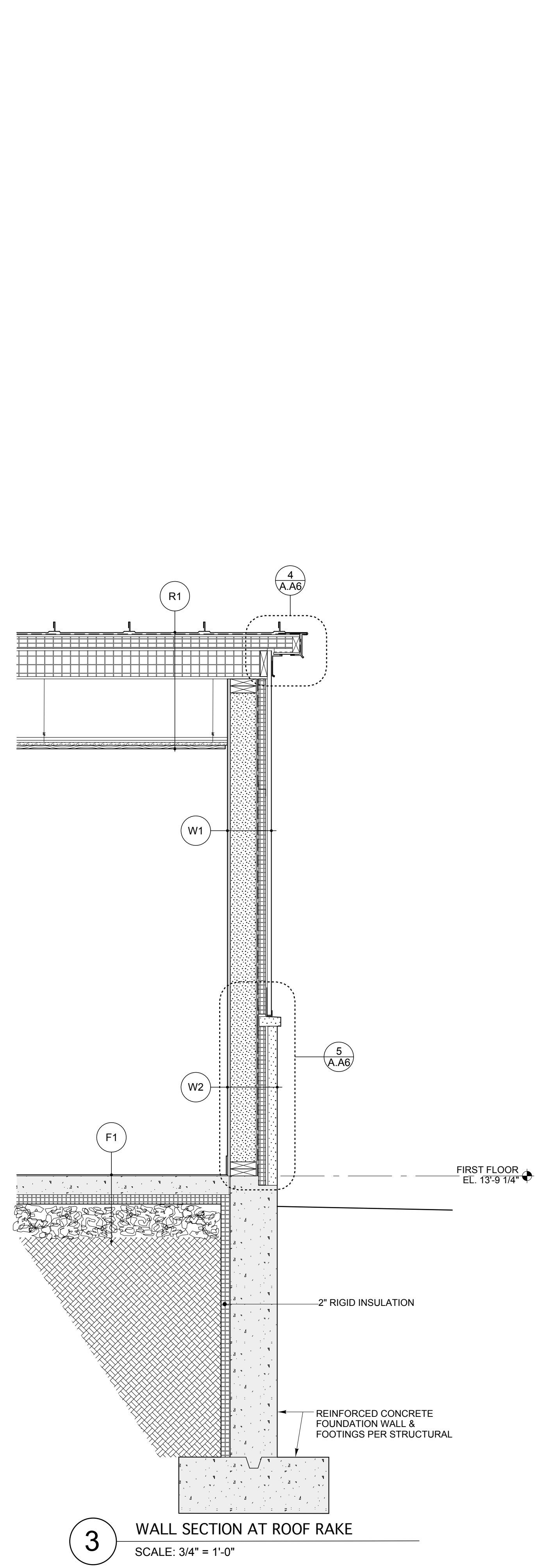
E BUILDING SECTION THROUGH CONFERENCE ROOM 117 & OFFICE 125
SCALE: 1/4" = 1'-0"



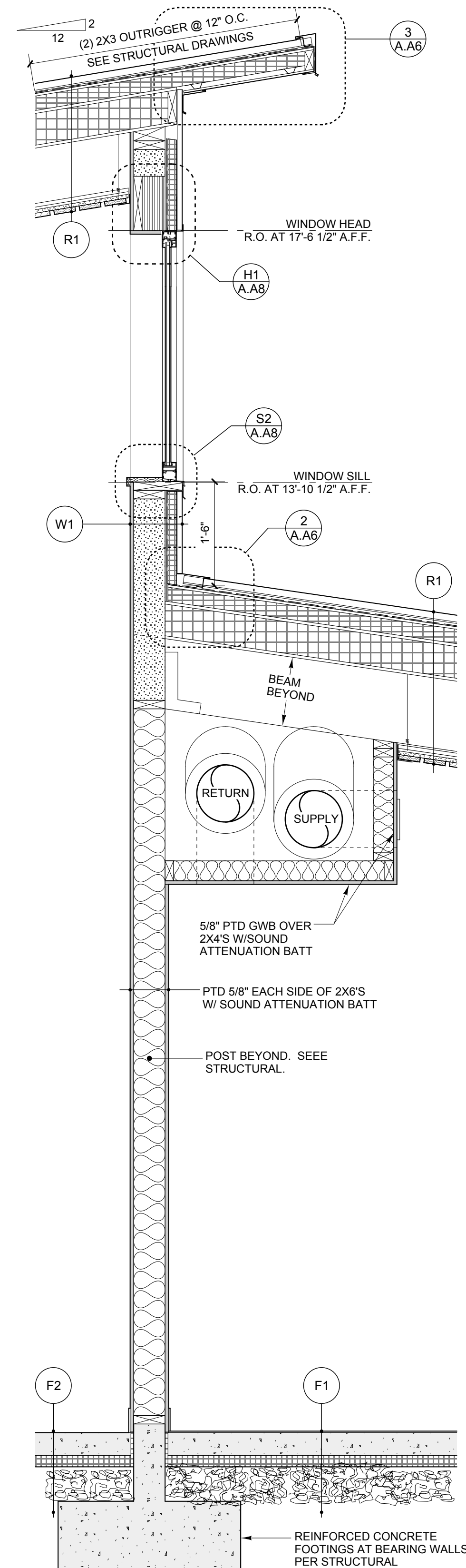
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CHECKED/REVIEWED	SWW			
DESIGN/2-D/DETAILED				
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REVISIONS 1				
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FIELD CHANGES				

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
WALL SECTIONS

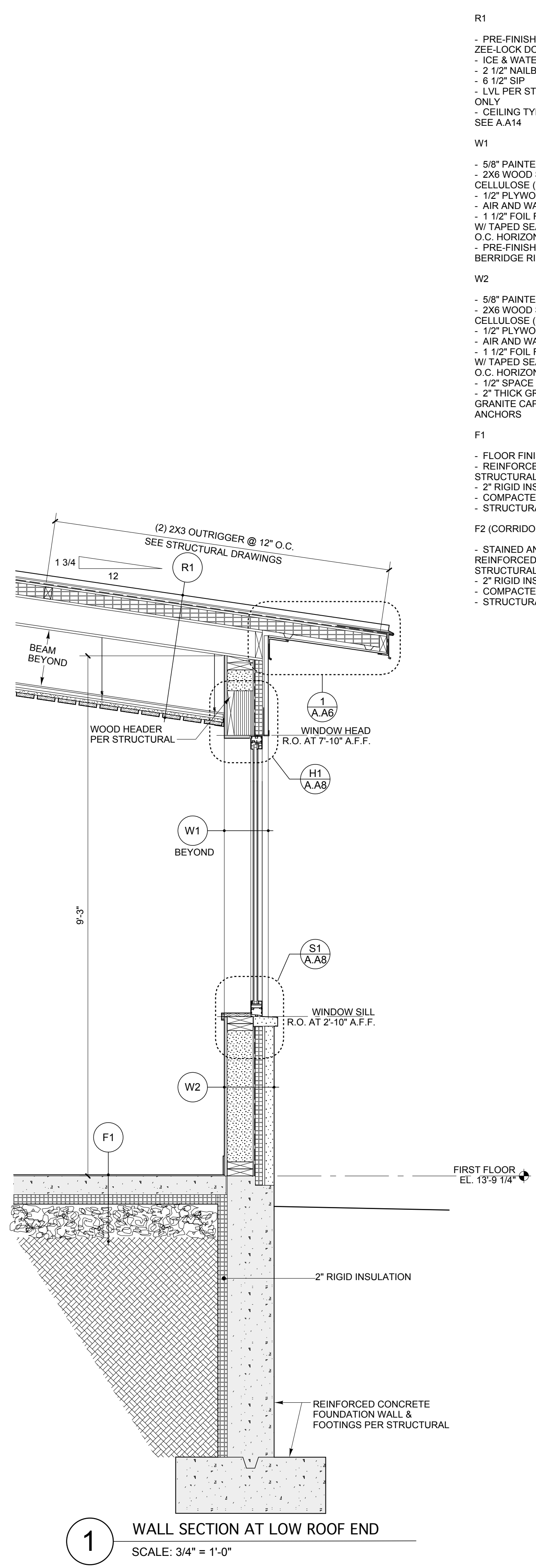
- R1
- PRE-FINISHED METAL ROOF COVERING, ZEE-LOCK DOUBLE LOCK SEALED BY BERRIDGE
 - ICE & WATERSHIELD ON ENTIRE ROOF
 - 2 1/2" NAILBOARD
 - 6 1/2" SIP
 - LVL PER STRUCTURAL IN CONFERENCE ROOM ONLY
 - CEILING TYPE PER REFLECTED CEILING PLAN. SEE A.A14
- W1
- 5/8" PAINTED GWB
 - 2X6 WOOD STUDS WITH DENSEPAK CELLULOSE (R3.7 X 3.5" = R12.95)
 - 1/2" PLYWOOD SHEATHING
 - AIR AND WATER INFILTRATION BARRIER
 - 1 1/2" FOIL FACED POLYISO RIGID INSULATION W/ TAPED SEAMS (R7.2) & "ZEE" GIRTS AT 48" O.C. HORIZONTALLY
 - PRE-FINISHED METAL SIDING HR-16 BY BERRIDGE RIBS INSTALLED VERTICALLY
- W2
- 5/8" PAINTED GWB
 - 2X6 WOOD STUDS WITH DENSEPAK CELLULOSE (R3.7 X 3.5" = R12.95)
 - 1/2" PLYWOOD SHEATHING
 - AIR AND WATER INFILTRATION BARRIER
 - 1 1/2" FOIL FACED POLYISO RIGID INSULATION W/ TAPED SEAMS (R7.2) & "ZEE" GIRTS AT 48" O.C. HORIZONTALLY
 - 1/2" SPACE
 - 2" THICK GRANITE CLADDING PANELS & GRANITE CAP W/ STAINLESS STEEL STRAP ANCHORS
- F1
- FLOOR FINISH PER SCHEDULE
 - REINFORCED CONCRETE SLAB ON GRADE PER STRUCTURAL
 - 2" RIGID INSULATION
 - COMPACTED GRAVEL
 - STRUCTURAL FILL
- F2 (CORRIDORS)
- STAINED AND SEALED DECORATIVE REINFORCED CONCRETE SLAB ON GRADE PER STRUCTURAL
 - 2" RIGID INSULATION
 - COMPACTED GRAVEL
 - STRUCTURAL FILL



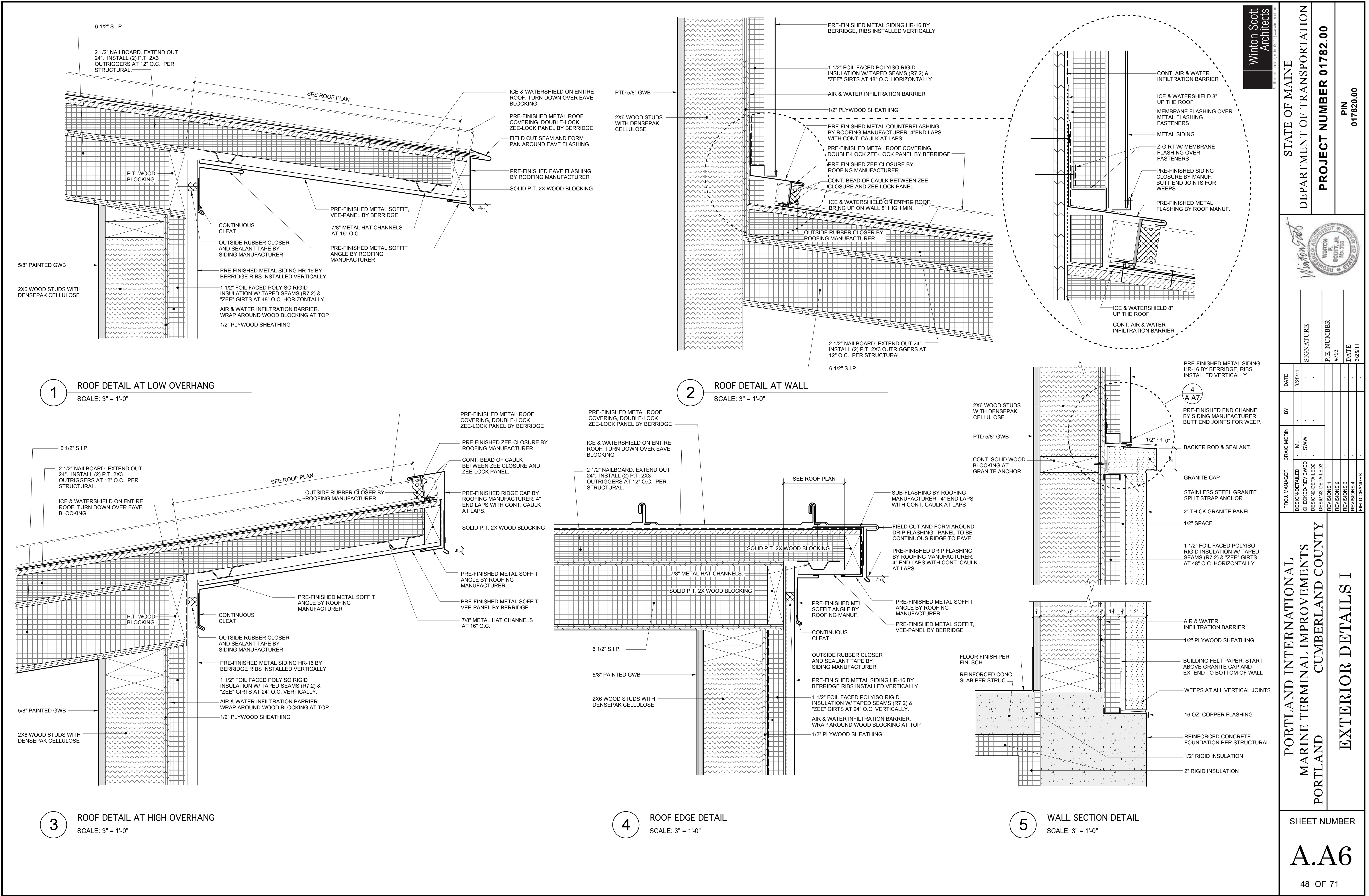
3 WALL SECTION AT ROOF RAKE
SCALE: 3/4" = 1'-0"



2 WALL SECTION AT HIGH WINDOWS
SCALE: 3/4" = 1'-0"



1 WALL SECTION AT LOW ROOF END
SCALE: 3/4" = 1'-0"



DATE: 3/25/11
 BY: [Signature]
 PROJECT MANAGER: CRAIG MORIN
 CHECKED/REVIEWED: SWW
 DESIGN/DETAILS: [Signature]
 REVISIONS 1: #793
 REVISIONS 2:
 REVISIONS 3:
 REVISIONS 4:
 FIELD CHANGES:
 P.E. NUMBER: #793
 DATE: 3/25/11

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 EXTERIOR DETAILS I

DATE: 3/25/11
 BY: [Signature]
 PROJECT MANAGER: CRAIG MORIN
 CHECKED/REVIEWED: SWW
 DESIGN/DETAILS: [Signature]
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 DATE: 3/25/11
 SHEET NUMBER
A.A6
 48 OF 71

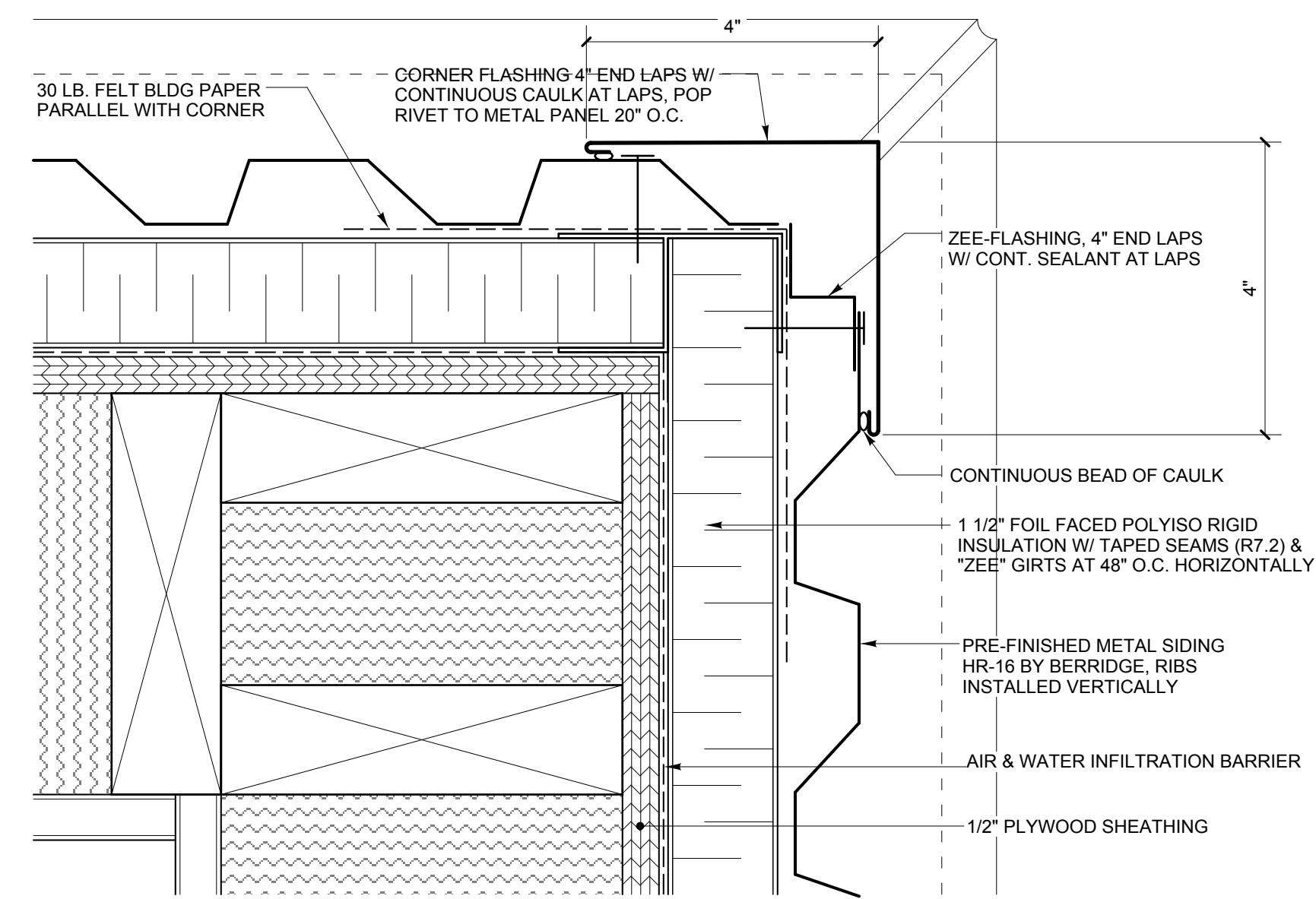


PROJ. MANAGER	DATE	BY	DATE	BY	DATE	BY	DATE
CRAIG MORIN	3/25/11						
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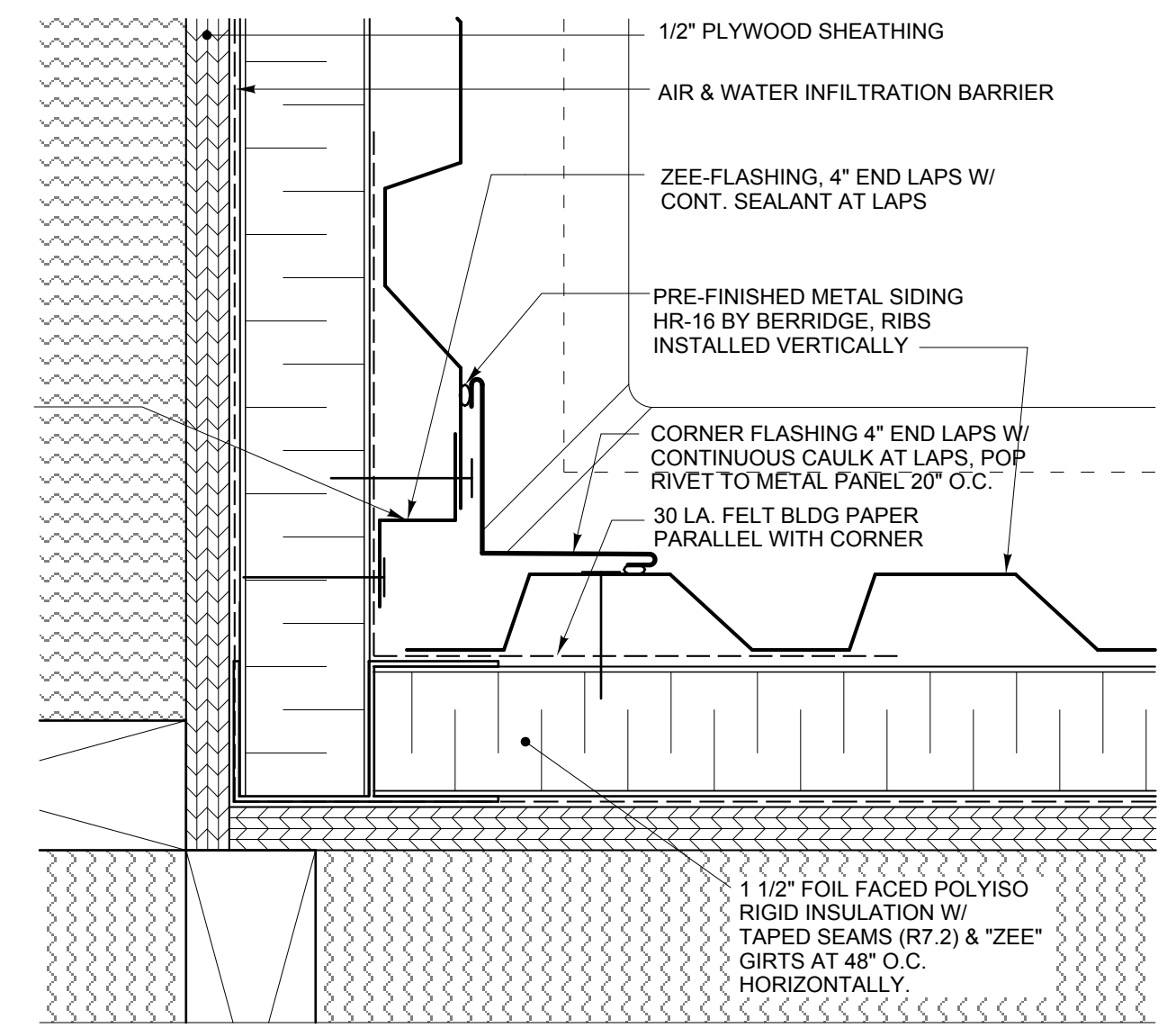
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
EXTERIOR DETAILS II

SHEET NUMBER

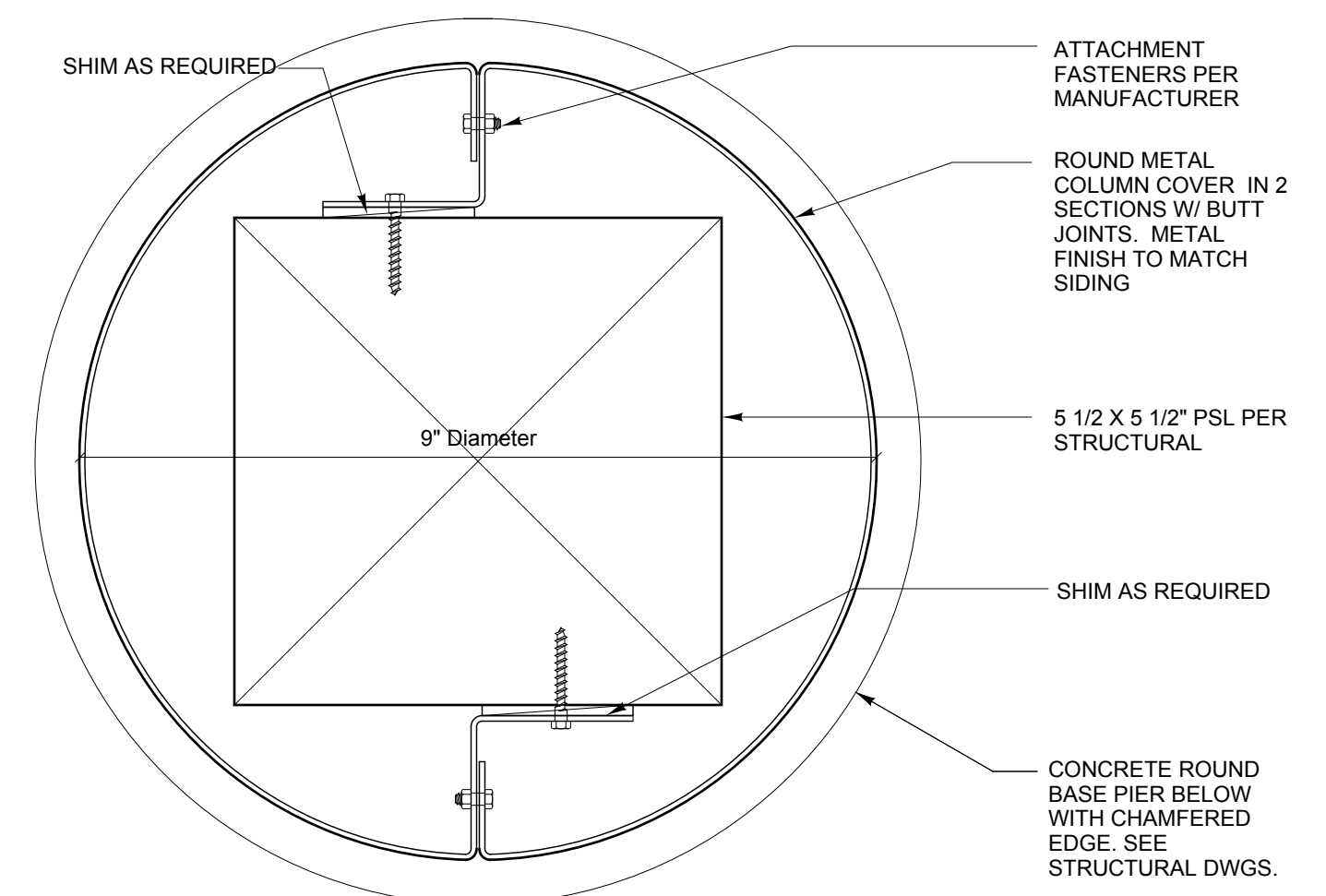
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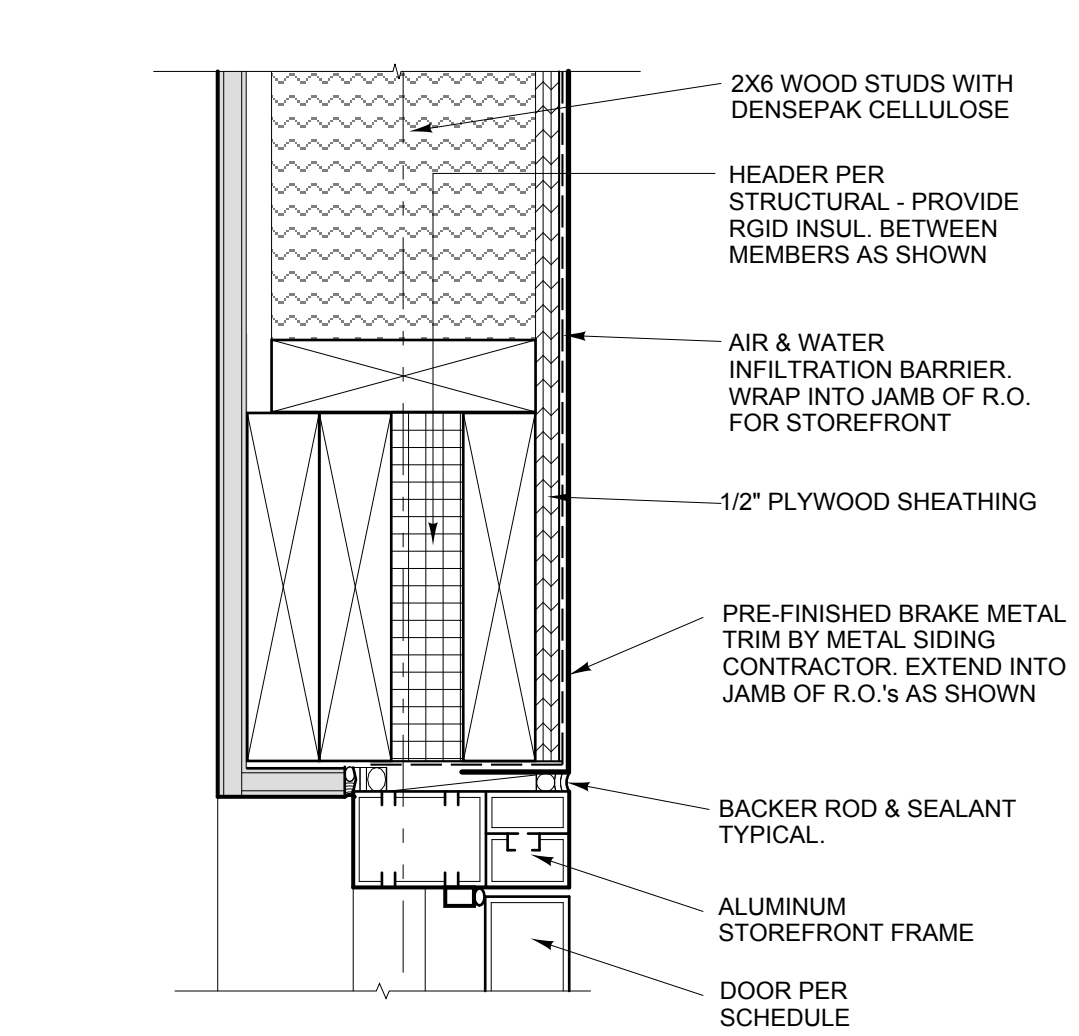
1 OUTSIDE CORNER DETAIL AT METAL SIDING
SCALE: 6" = 1'-0"



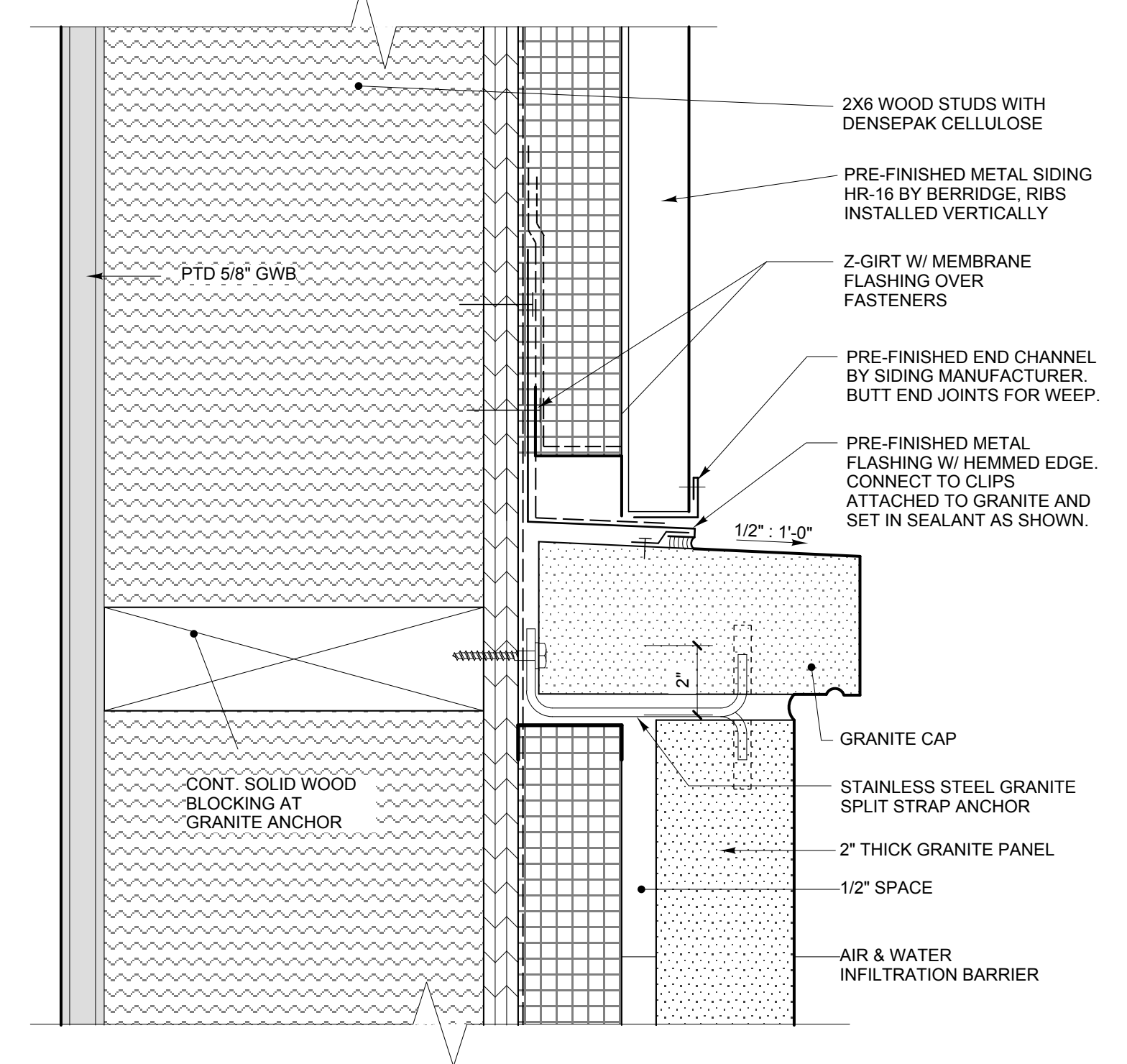
2 INSIDE CORNER DETAIL AT METAL SIDING
SCALE: 6" = 1'-0"



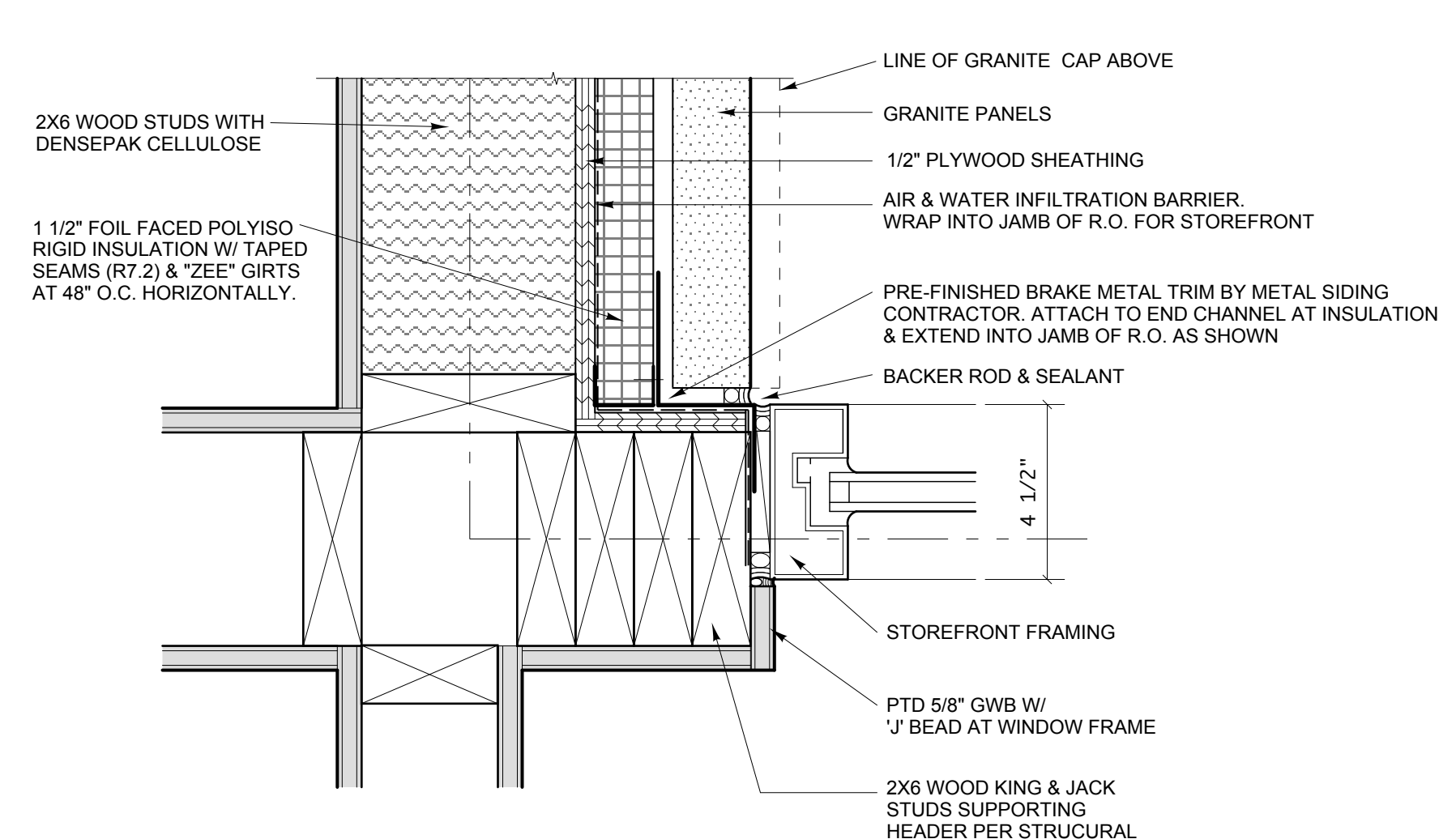
3 METAL COLUMN COVER DETAIL
SCALE: 6" = 1'-0"



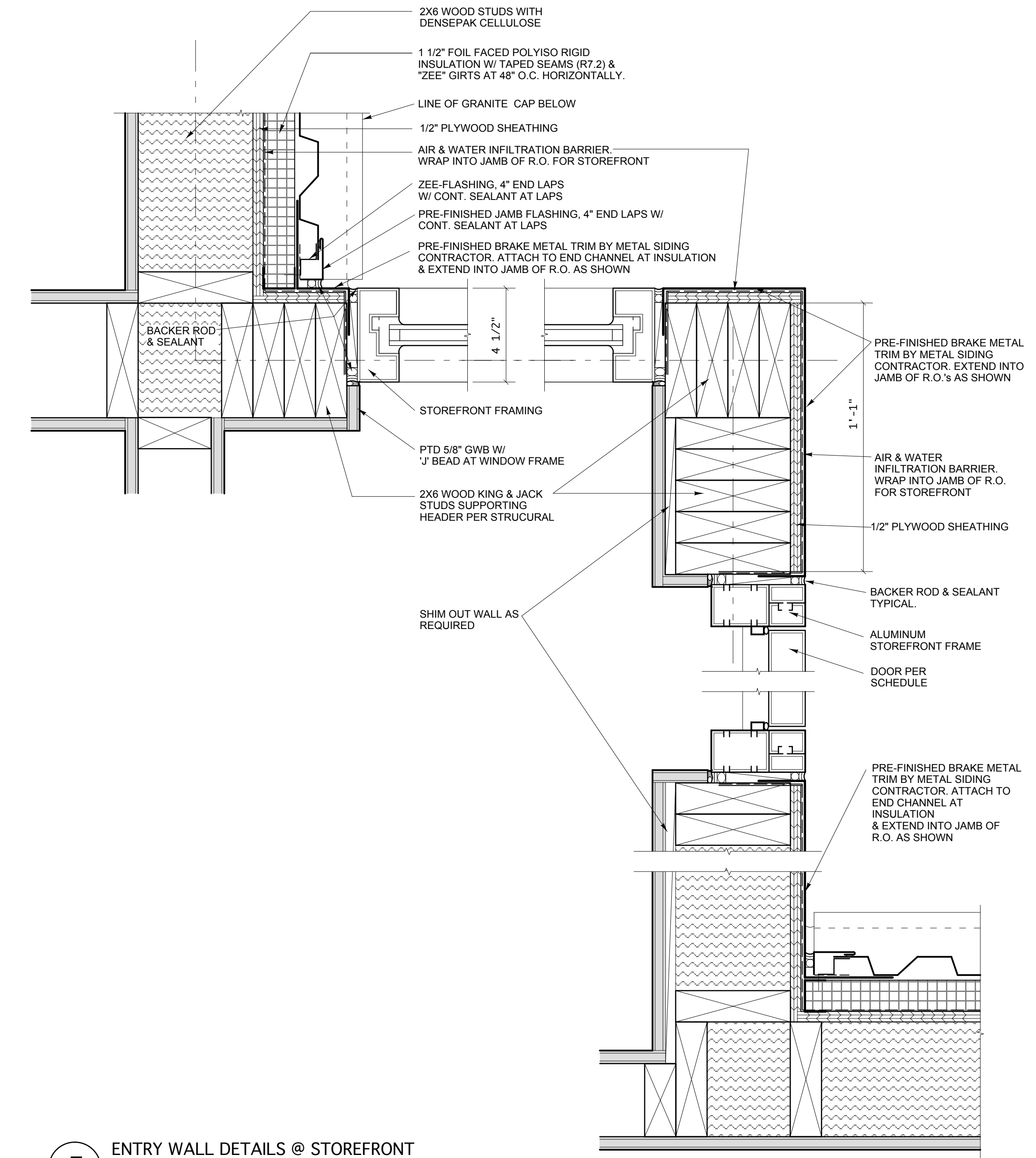
6 HEAD DETAIL AT STOREFRONT
SCALE: 3" = 1'-0"



4 METAL SIDING DETAIL AT GRANITE CAP
SCALE: 6" = 1'-0"



5A JAMB DETAIL AT GRANITE PANEL
SCALE: 3" = 1'-0"



5 ENTRY WALL DETAILS @ STOREFRONT
SCALE: 3" = 1'-0"

WINDOW SCHEDULE

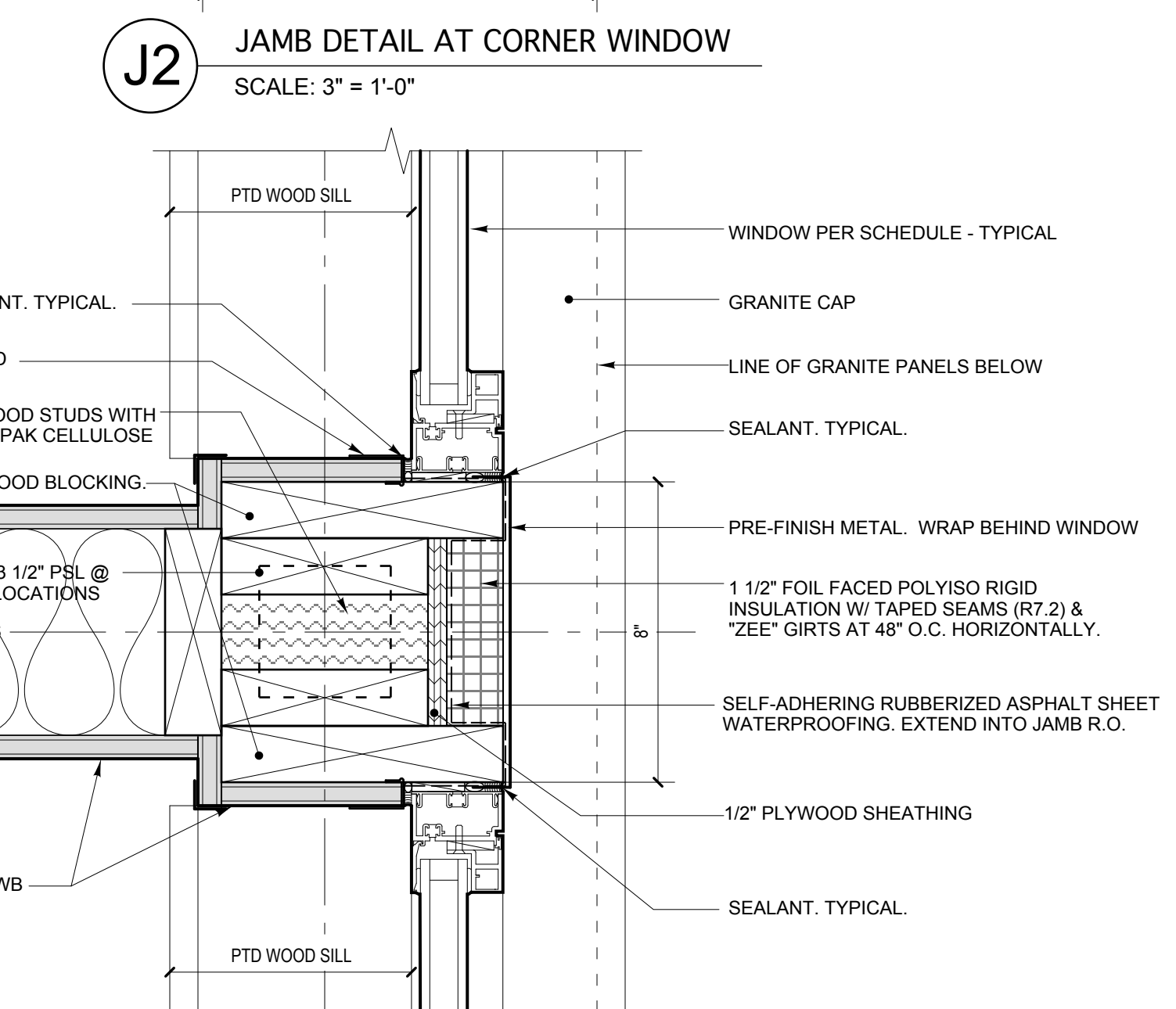
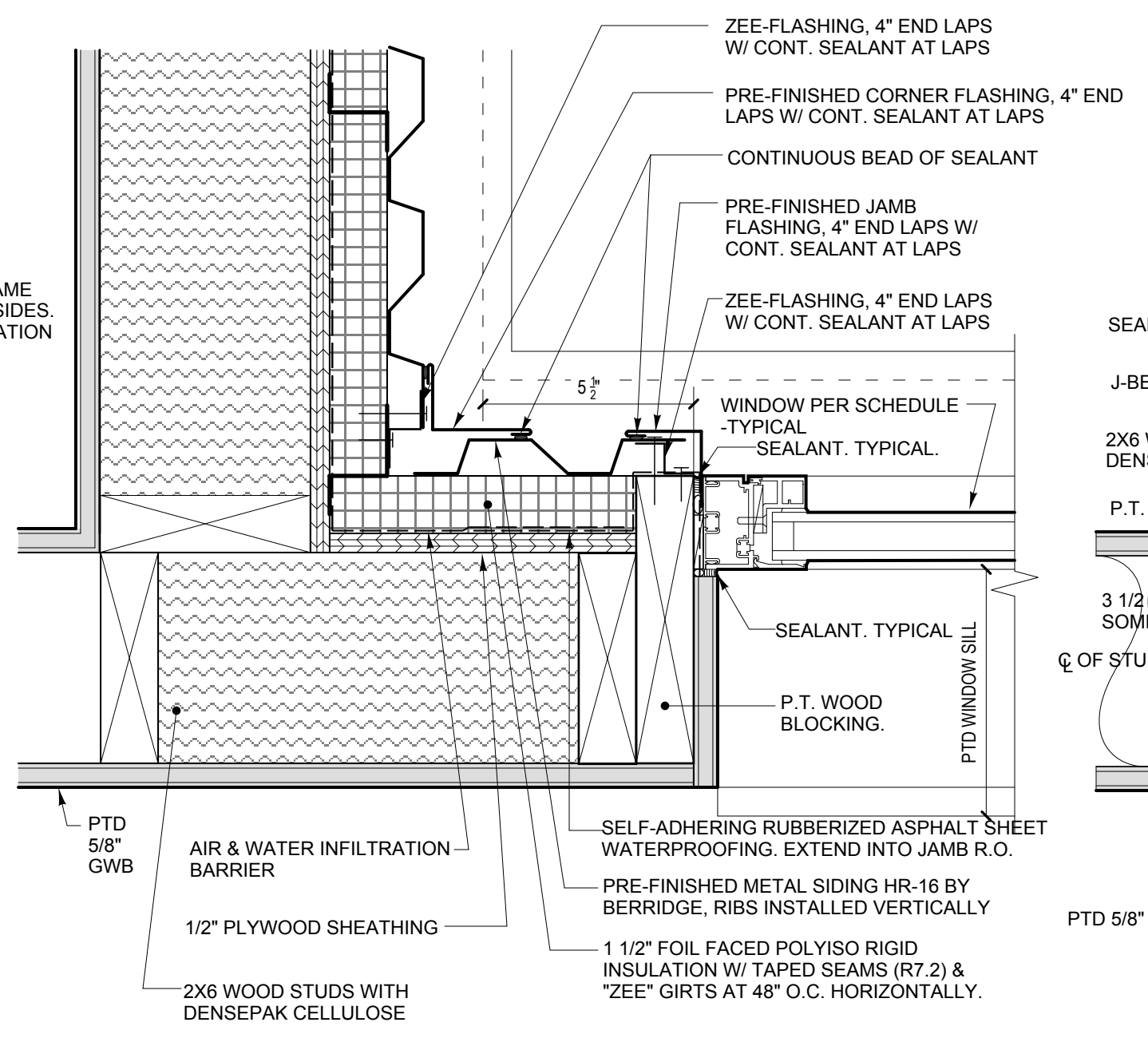
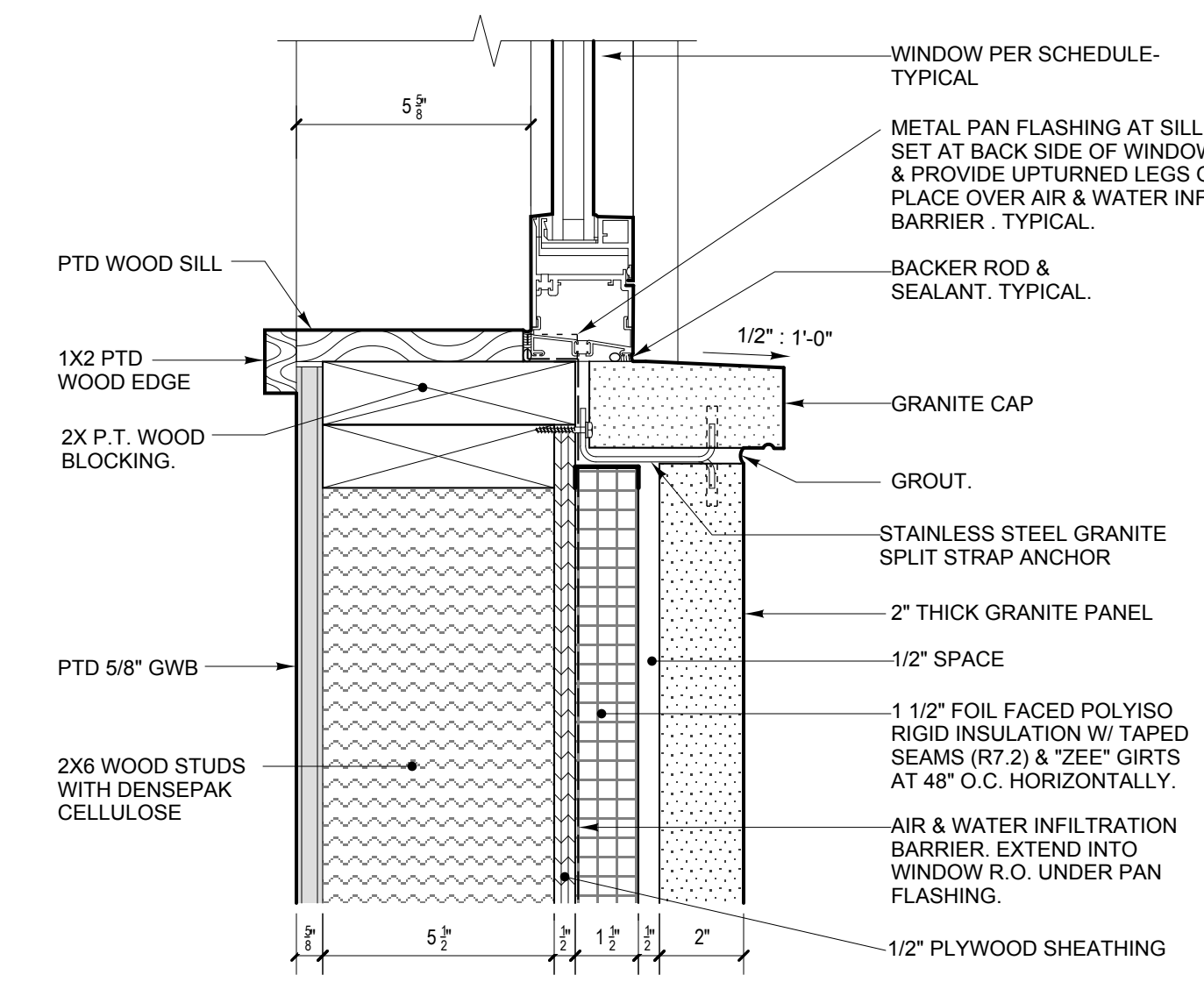
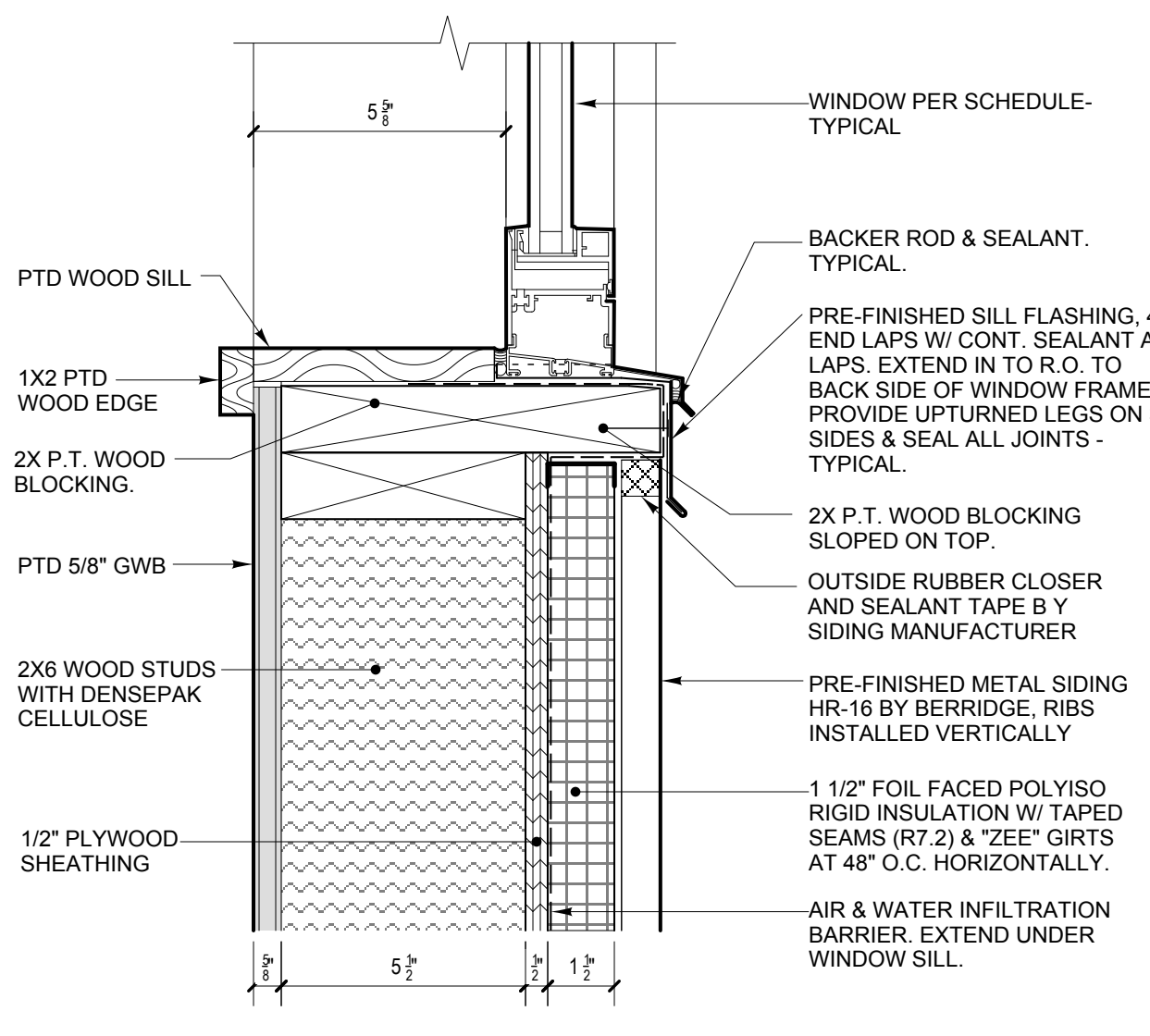
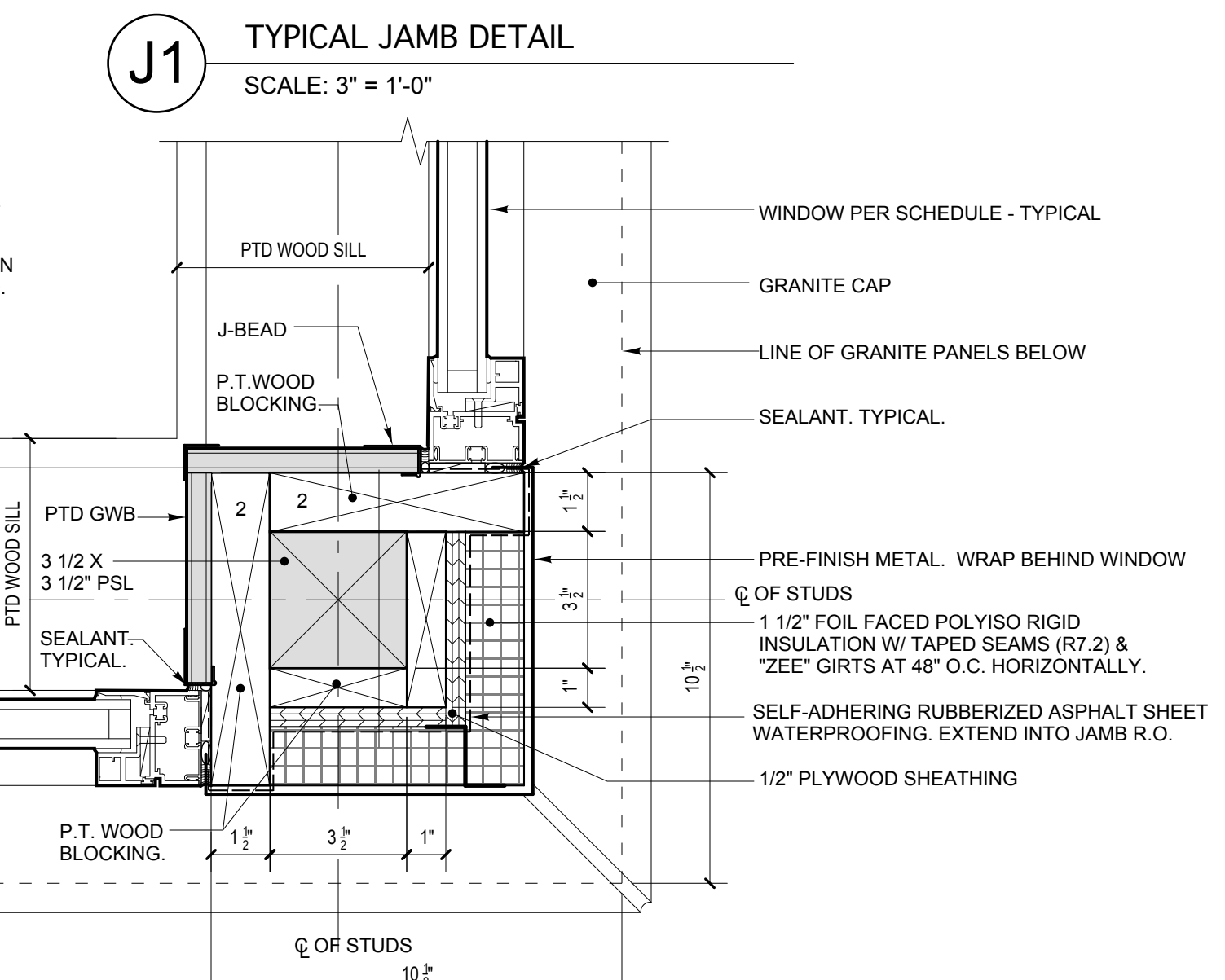
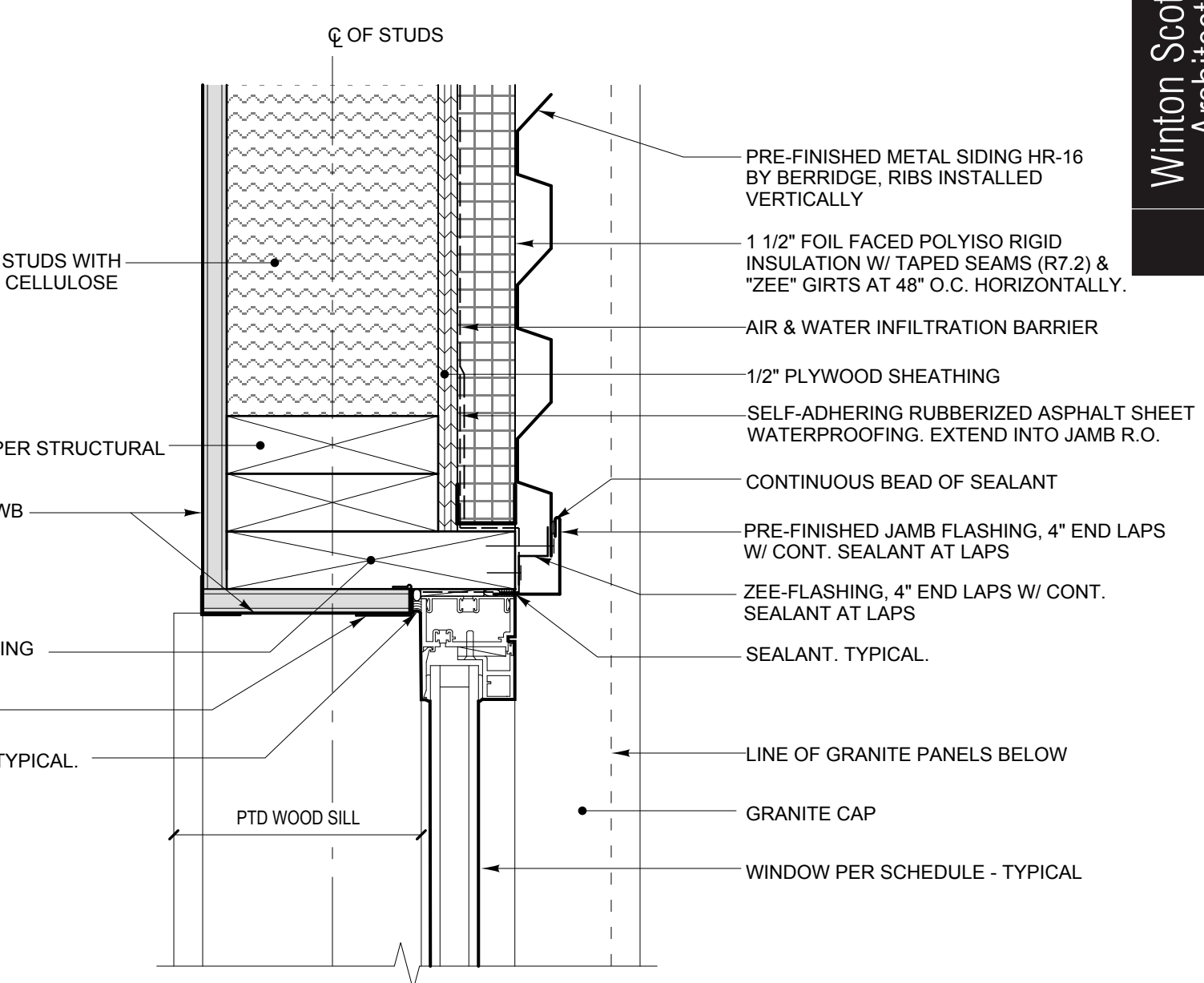
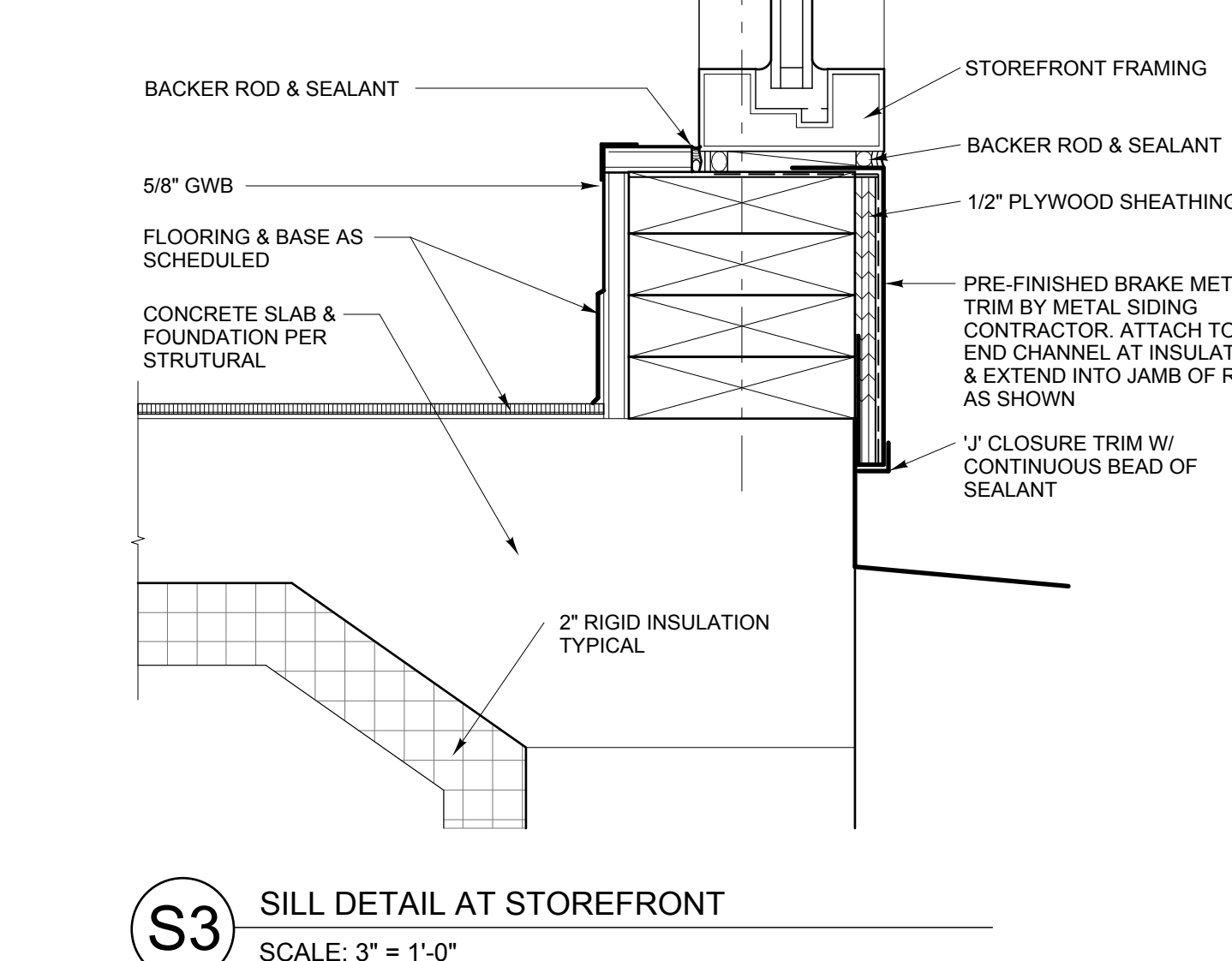
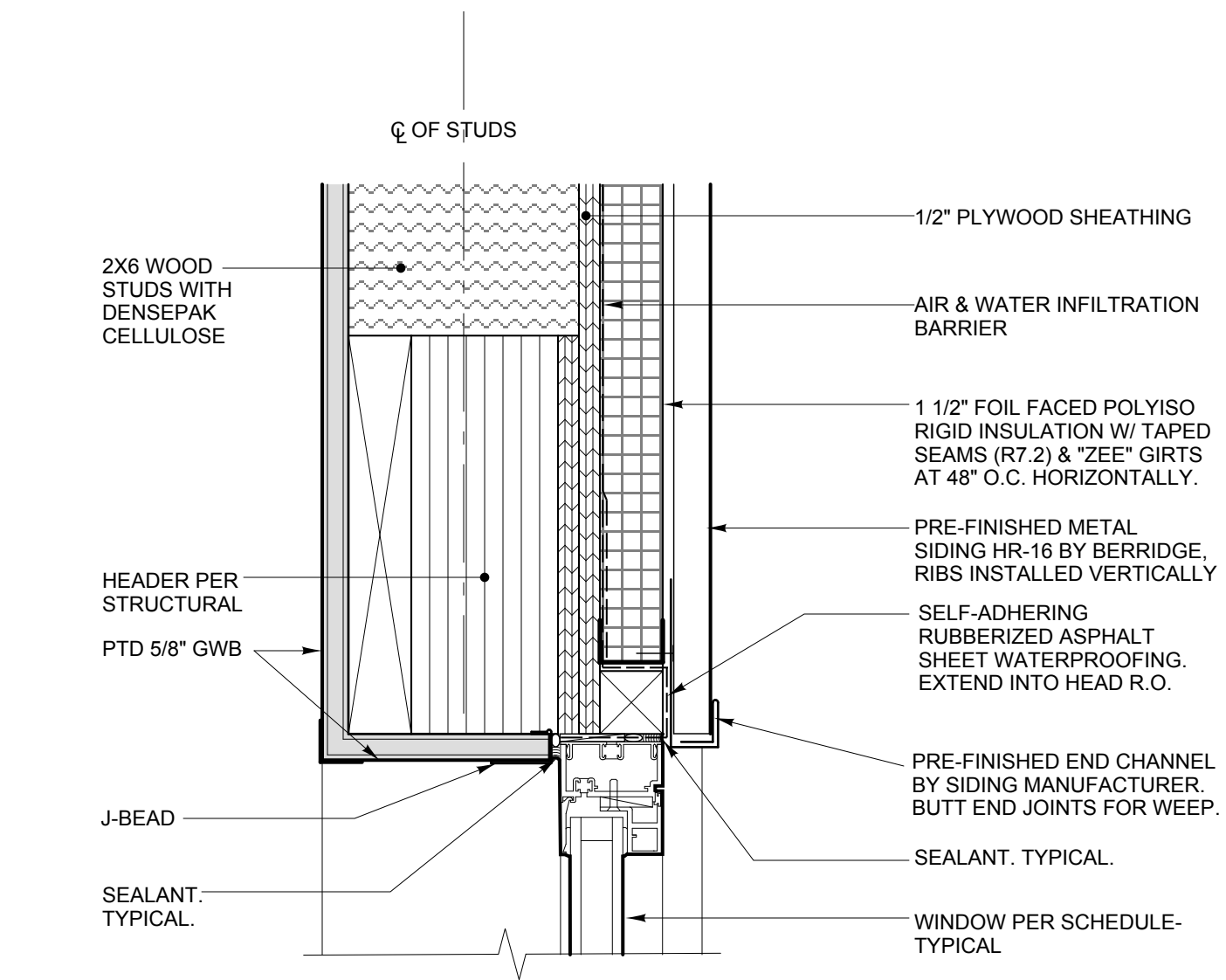
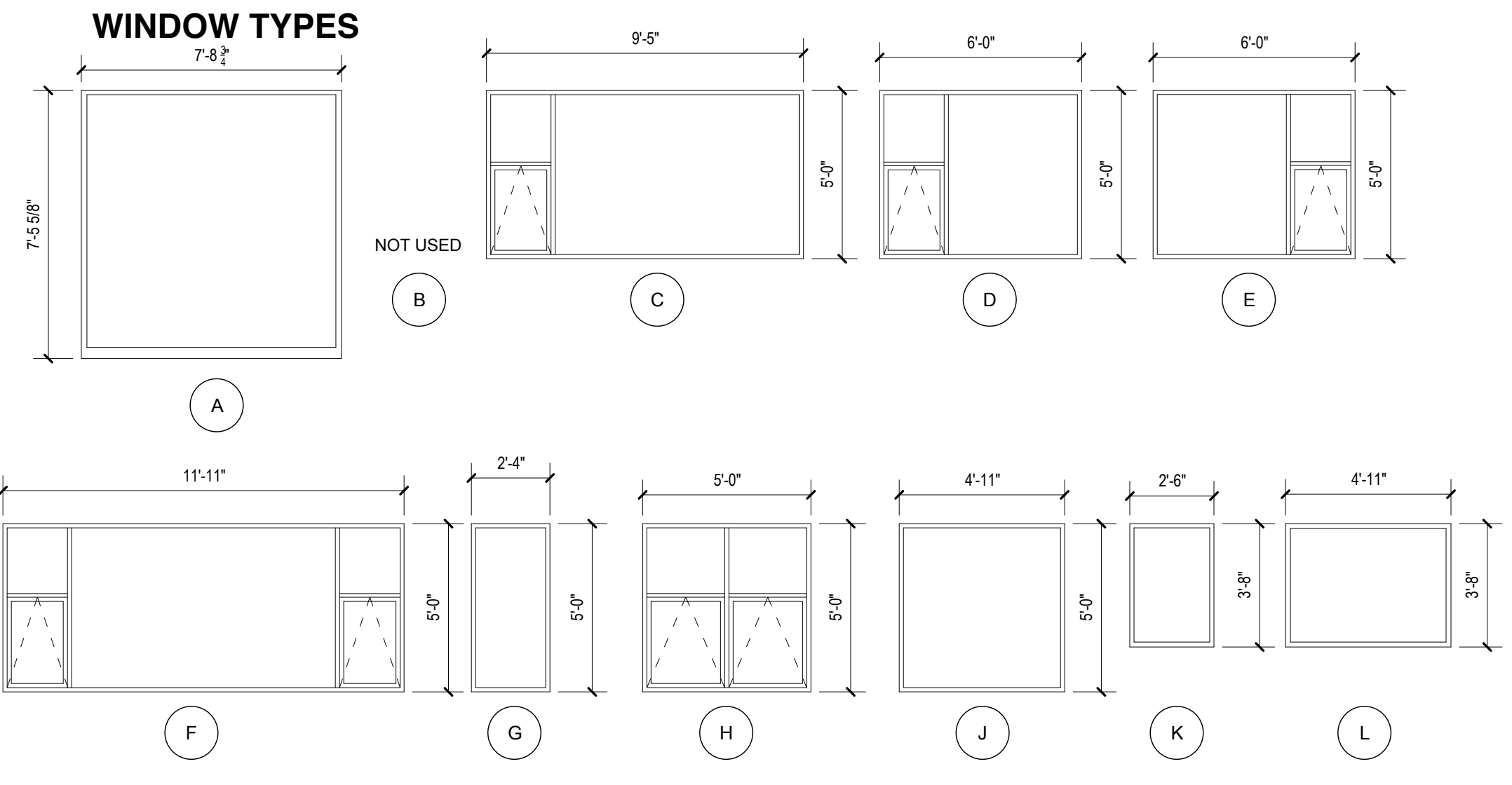
General		Frame		Details			Notes
Window No.	Type	Material	Finish	Head	Jamb	Sill	
FIRST FLOOR - LOW							
1.1	A	ALUM	FF	6/A.A7 SIM	5/A.A7	S3	
1.2	G	ALUM	FF	H1	J2 / J4	S1	
1.3	C	ALUM	FF	H1	J2 / J3	S1	
1.4	D	ALUM	FF	H1	J1 / J3	S1	
1.5	E	ALUM	FF	H1	J1 / J3	S1	
1.6	E	ALUM	FF	H1	J1 / J3	S1	
1.7	E	ALUM	FF	H1	J1 / J2	S1	
1.8	F	ALUM	FF	H1	J2	S1	
1.9	G	ALUM	FF	H1	J1 / J2	S1	
1.10	H	ALUM	FF	H1	J1	S1	
1.11	D	ALUM	FF	H1	J1	S1	
1.12	D	ALUM	FF	H1	J1	S1	
1.13	E	ALUM	FF	H1	J1	S1	
1.14	G	ALUM	FF	H1	J1 / J2	S1	
1.15	D	ALUM	FF	H1	J1 / J2	S1	
1.16	E	ALUM	FF	H1	J1 / J2	S1	
1.17	G	ALUM	FF	H1	J1 / J2	S1	
1.18	D	ALUM	FF	H1	J1	S1	
1.19	E	ALUM	FF	H1	J1	S1	
1.20	J	ALUM	FF	H1	J1 / J3 sim	S1	
1.21	J	ALUM	FF	H1	J3 sim	S1	
1.22	J	ALUM	FF	H1	J3 sim	S1	
1.23	J	ALUM	FF	H1	J2 / J3	S1	
1.24	J	ALUM	FF	H1	J1 / J2	S1	

FIRST FLOOR - HIGH							
2.1	K	ALUM	FF	H1	J1 / J2	S2	
2.2	L	ALUM	FF	H1	J2 / J3	S2	
2.3	L	ALUM	FF	H1	J3	S2	
2.4	L	ALUM	FF	H1	J3	S2	
2.5	L	ALUM	FF	H1	J3	S2	
2.6	L	ALUM	FF	H1	J2 / J3	S2	
2.7	K	ALUM	FF	H1	J1 / J2	S2	

ABBREVIATIONS
 FF Factory Finish
 ALUM. Aluminum

GENERAL NOTES
 • Refer to floor plans and building elevations for window type location
 • Provide tempered glass at any window unit less than 18" above the floor. Also provide tempered glass for glass installed in doors or located within 24" of a door.
 • See specifications for glazing types

KEY NOTES



Winton Scott Architects
 STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 01782.00
 PIN 017820.00

Winton Scott
 REGISTERED ARCHITECT & ENGINEER
 WINTON SCOTT, P.E.
 1000 STATE ST.
 PORTLAND, ME 04103

PROJ. MANAGER	CRAIG MORIN	DATE	3/26/11
DESIGN-DETAILED		BY	
CHECKED/REVIEWED		DATE	
DESIGN-2/DETAILED		BY	
DESIGN-3/DETAILED		DATE	
REVISIONS 1		BY	
REVISIONS 2		DATE	
REVISIONS 3		BY	
REVISIONS 4		DATE	
FIELD CHANGES		BY	

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND
 CUMBERLAND COUNTY
 WINDOW SCHEDULE & DETAILS

SHEET NUMBER
A.A8
 50 OF 71

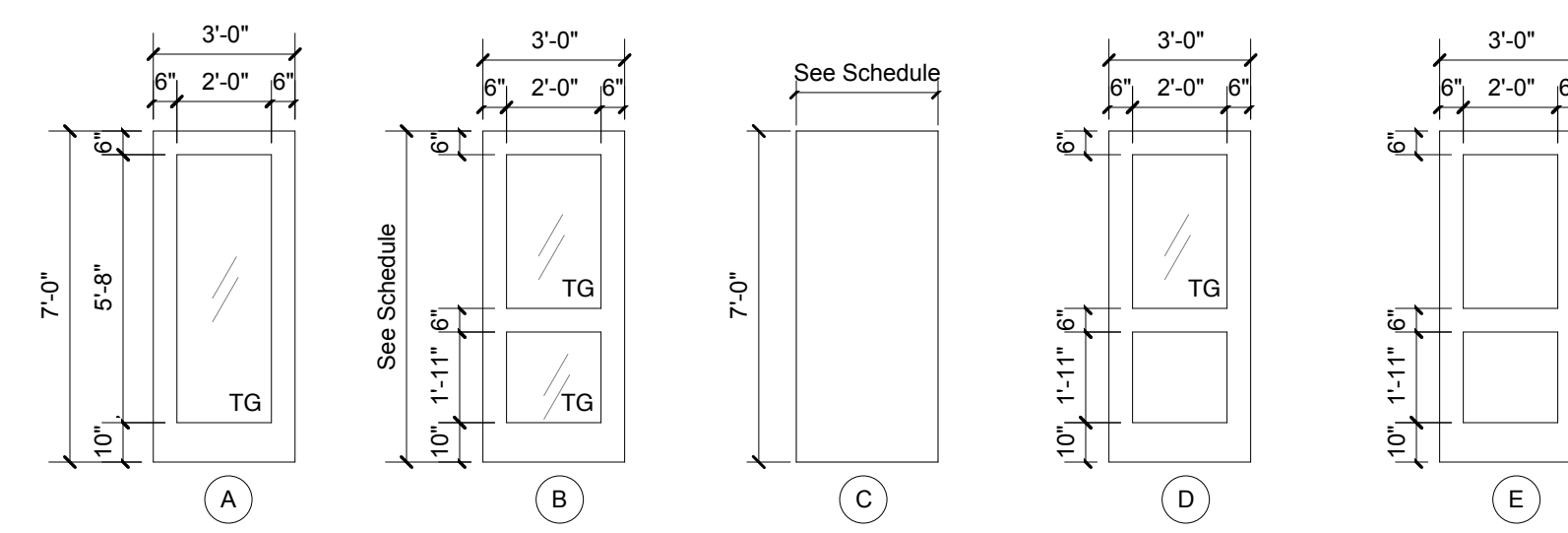
DOOR & FRAME SCHEDULE

General			Door			Frame			Details			Label	Remarks	
Door No.	Size (W x H)	Thickness	Material	Finish	Type	Material	Finish	Type	Head	Jamb	Threshold	Hardware		
101.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H1	J1	T7	HW3	--	
102.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F5	H1	J1	T1	HW3	--	
103.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F3	H1	J1	T1	HW3	--	
104.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F4	H1	J1	T1	HW3	--	
105.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F5	H1	J1	T1	HW3	--	
106.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F6	H1	J1	--	HW3	--	
107.1	3'-0" X 7'-0"	1 3/4"	AL	F.F.	D	AL	F.F.	F1	H2	J2	T2	HW1	--	
107.2	3'-0" X 7'-10"	1 3/4"	AL	F.F.	D	AL	F.F.	F1	H3	J3	T3	HW2	--	
108.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H1	J1	T1	HW3	--	
110.1	PR 2'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	C	HM	Ptd	F1	H1	J1	T4	HW4	--	
111.1	3'-0" X 7'-10"	1 3/4"	AL	F.F.	D	AL	F.F.	F1	H3	J3	T3	HW2	--	
112.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	C	HM	Ptd	F1	H1	J1	T5	HW5	--	
113.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	C	HM	Ptd	F1	H4	J4	T5	HW5	--	
114.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	C	HM	Ptd	F1	H4	J4	T5	HW5	--	
115.1	3'-0" X 7'-10"	1 3/4"	AL	F.F.	B	AL	F.F.	F1	H2	J2	T2	HW2	--	
115.2	3'-0" X 7'-10"	1 3/4"	AL	F.F.	B	AL	F.F.	F1	5A/A7.7	5/A7.7	T3	HW2	--	
117.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H4	J4	T1	HW3	--	
117.2	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H4	J4	T1	HW3	--	
118.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	C	HM	Ptd	F1	H4	J4	--	HW4	--	
119.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	C	HM	Ptd	F1	H4	J4	--	HW4	--	
120.1	3'-0" X 7'-10"	1 3/4"	AL	F.F.	E	AL	F.F.	F1	H3	J3	T3	HW4	--	
121.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H4	J4	T1	HW3	--	
122.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H4	J4	T1	HW3	--	
123.1	3'-0" X 7'-10"	1 3/4"	AL	F.F.	B	AL	F.F.	F1	H2	J2	T2	HW1	--	
123.2	3'-0" X 7'-10"	1 3/4"	AL	F.F.	B	AL	F.F.	F1	H3	J3	T6	HW2	--	
124.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H4	J4	T1	HW3	--	
125.1	3'-0" X 7'-0"	1 3/4"	SCWD	Cir. F.	A	HM	Ptd	F1	H4	J4	T1	HW3	--	

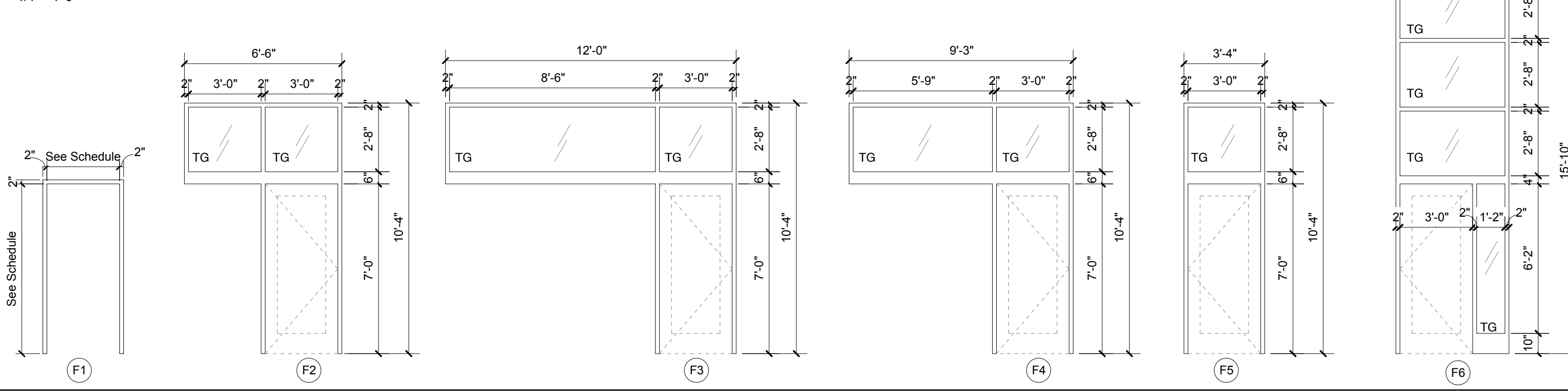
ABBREVIATIONS

SCWD Solid Core wood door
 Cir. F. Clear Finish
 F.F. Factory Finish
 HM Hollow Metal
 GHM Galvanized Hollow Metal
 Ptd Painted
 HW Hardware Set
 TG Tempered Glass
 FG Fire Glass
 SP Spandrel Glass

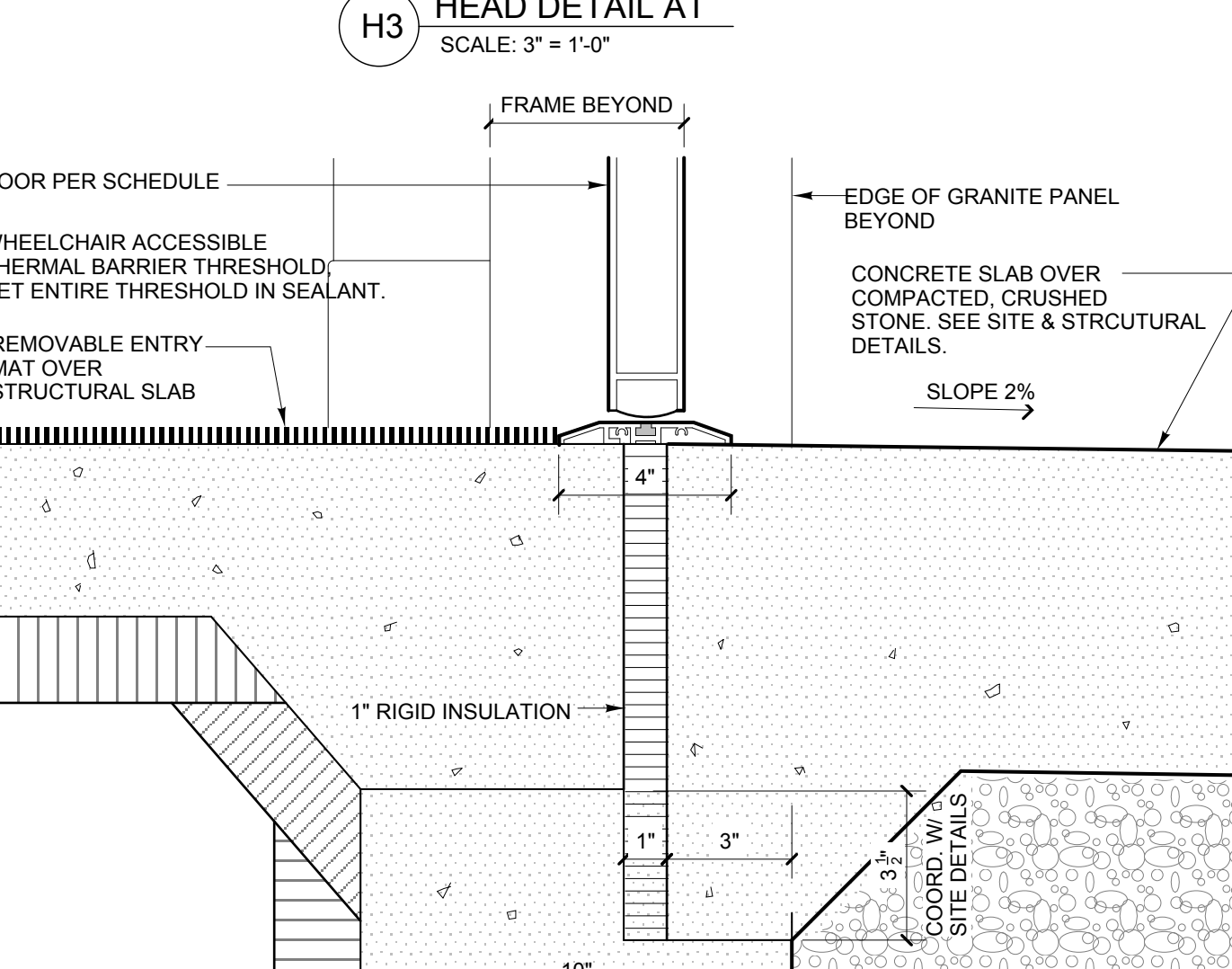
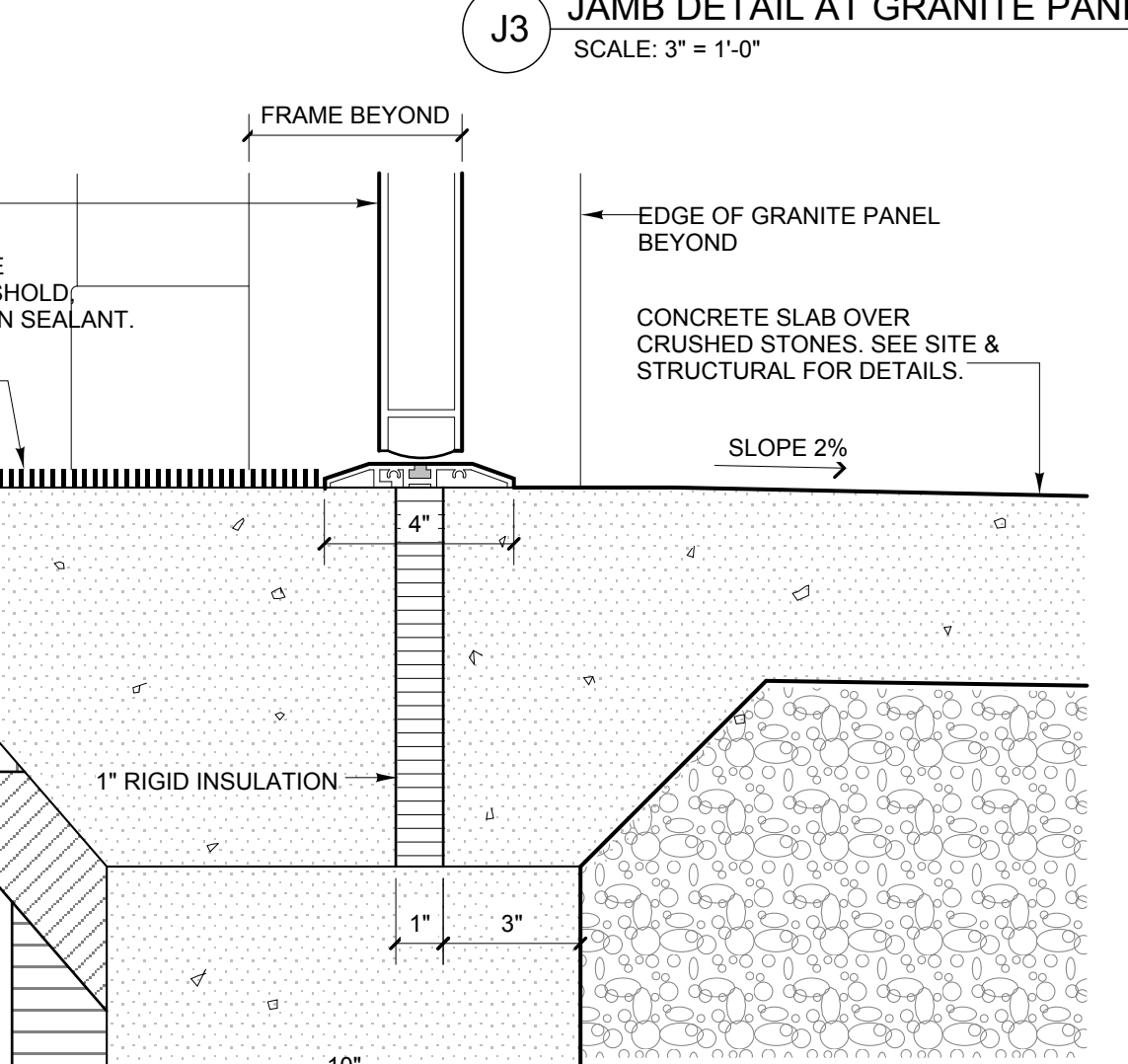
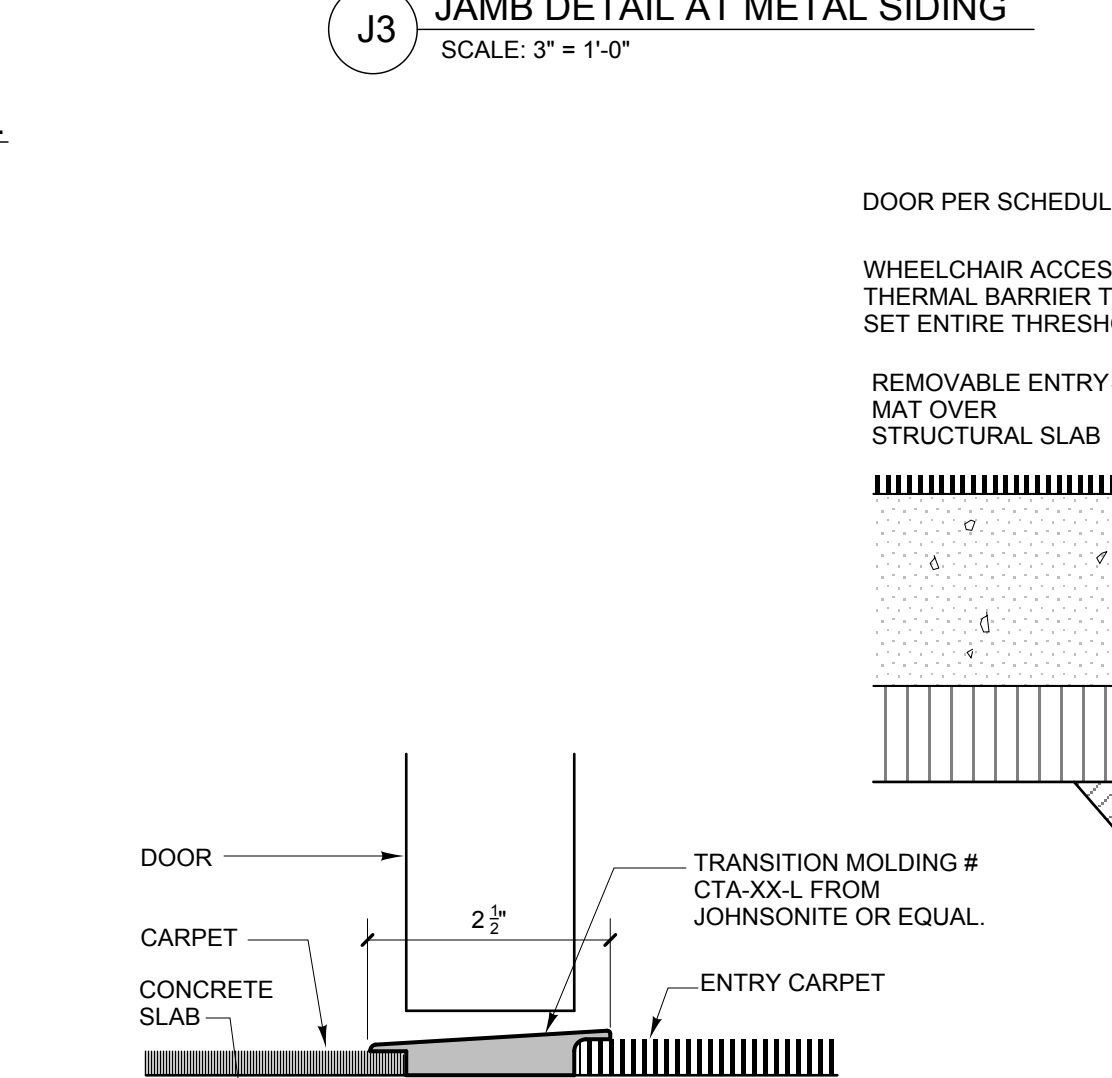
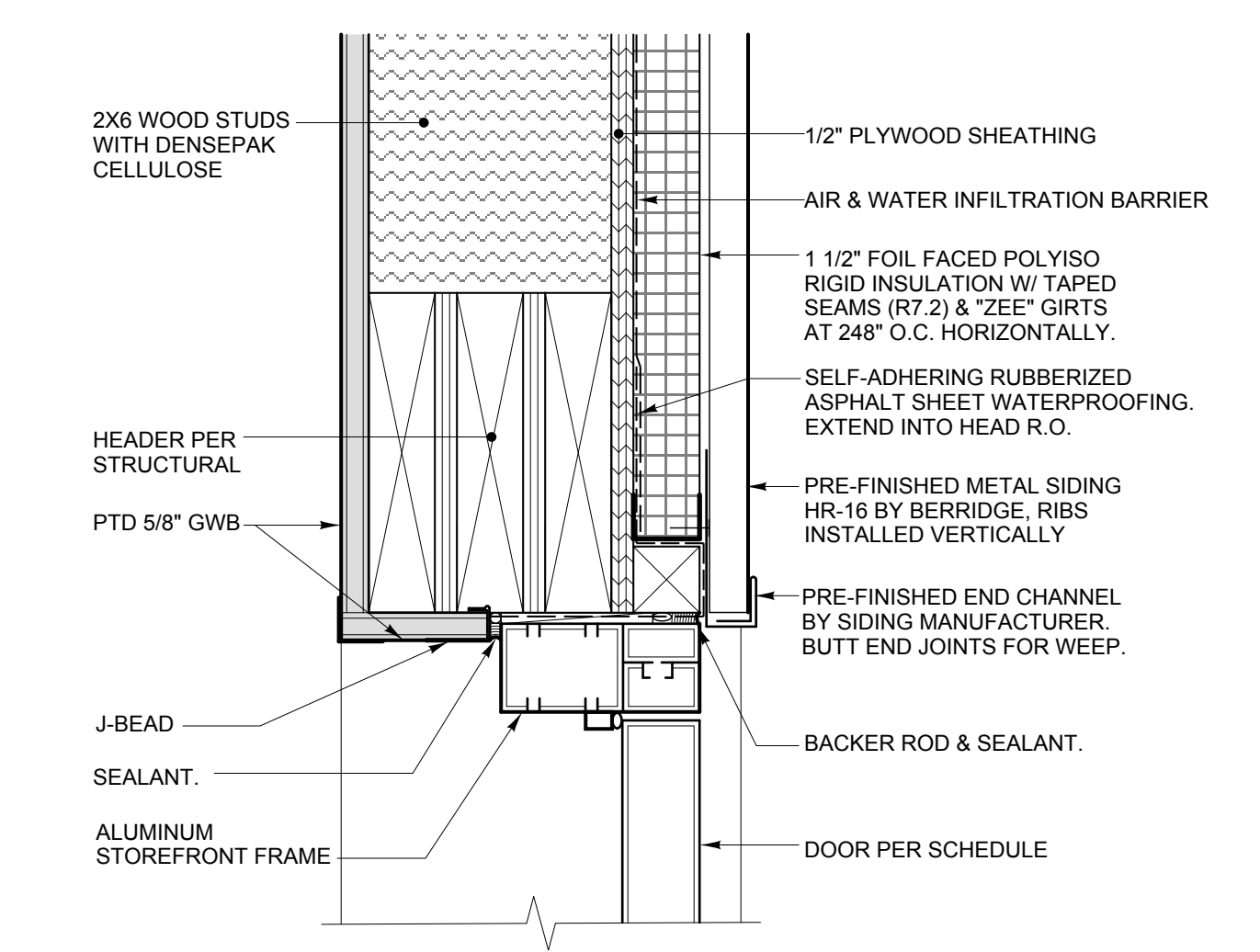
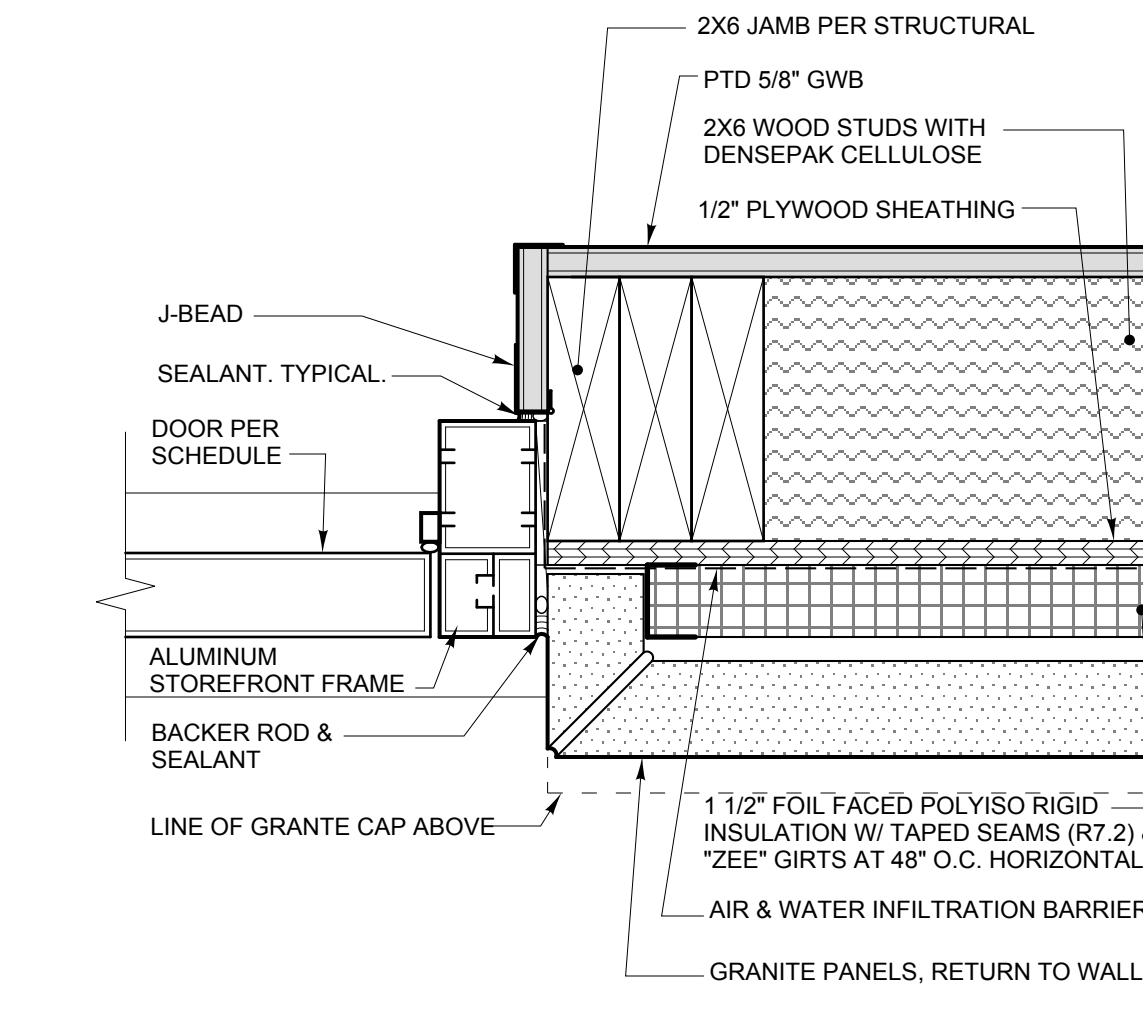
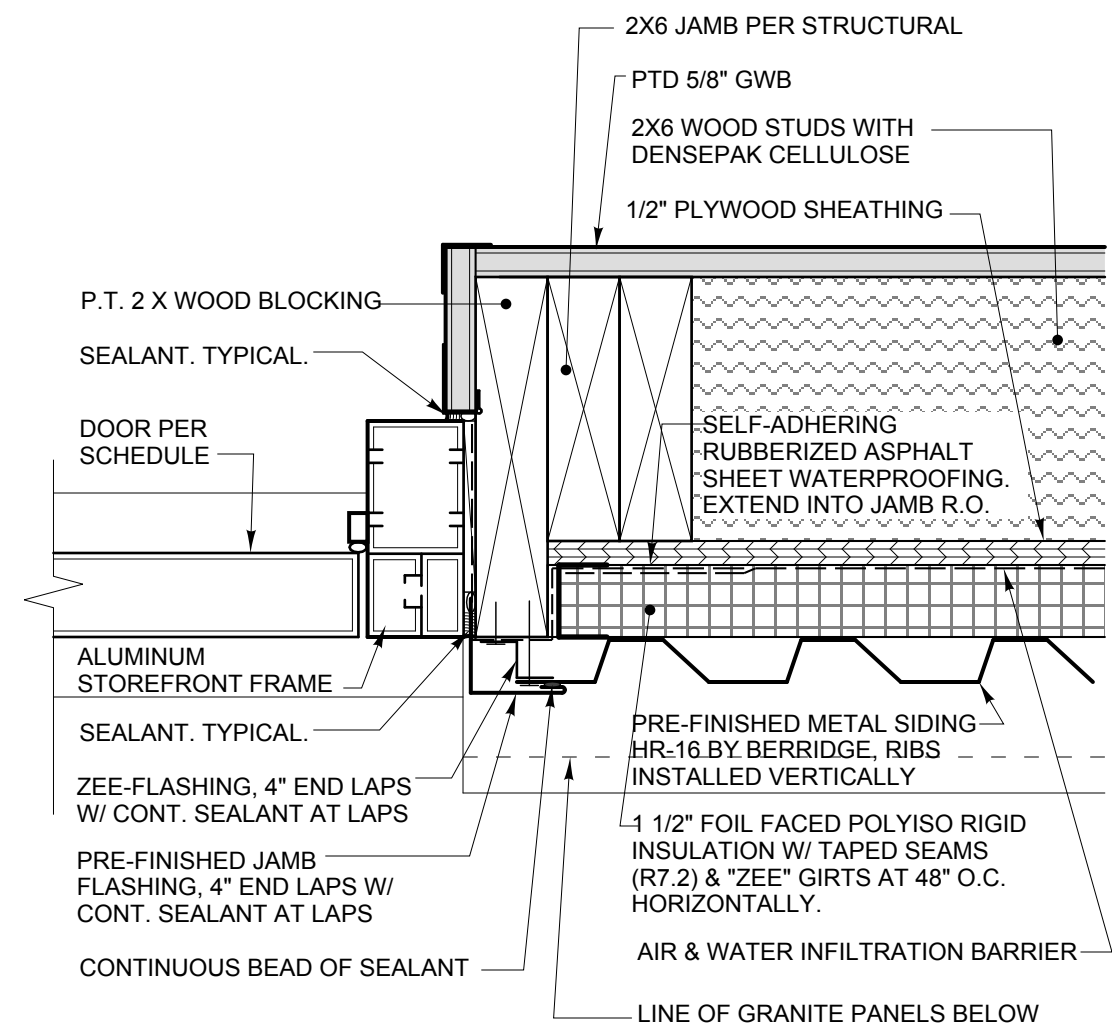
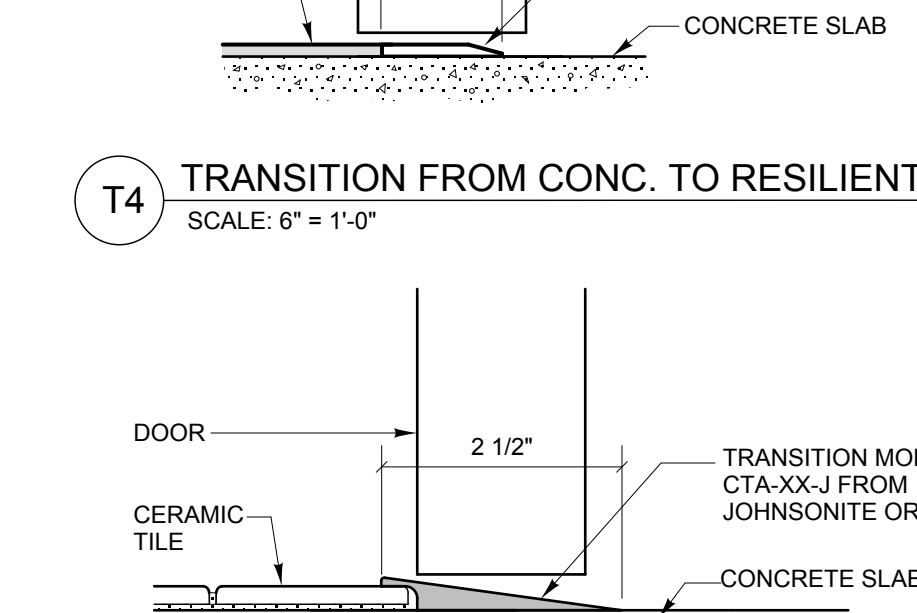
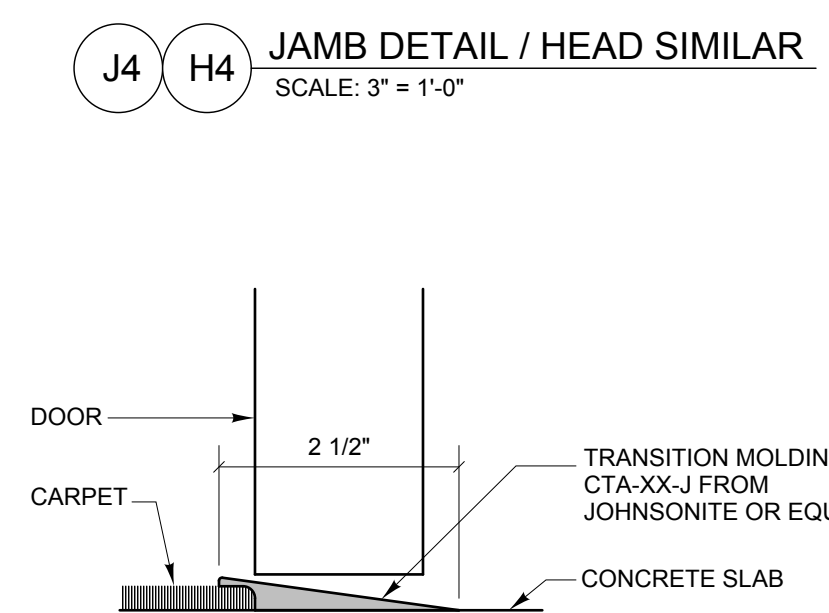
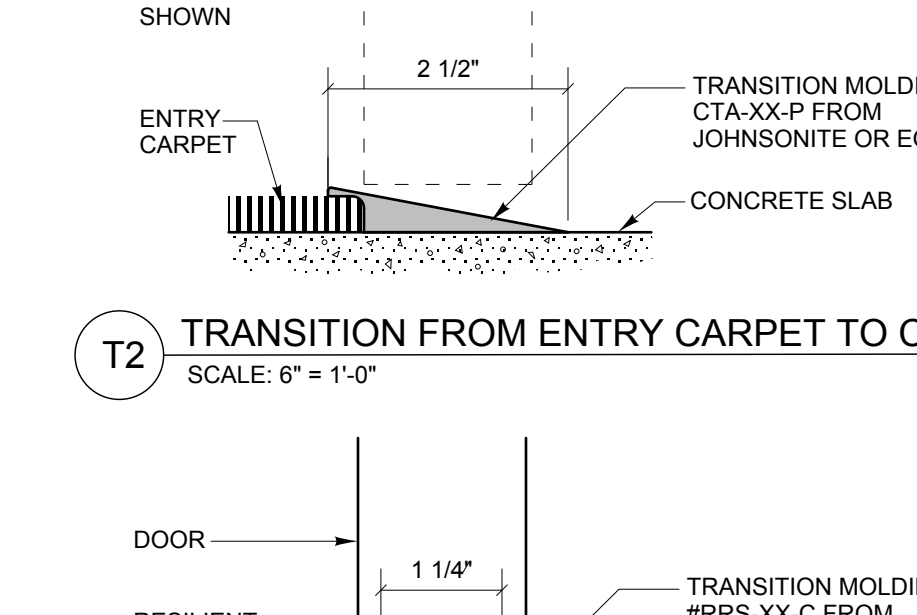
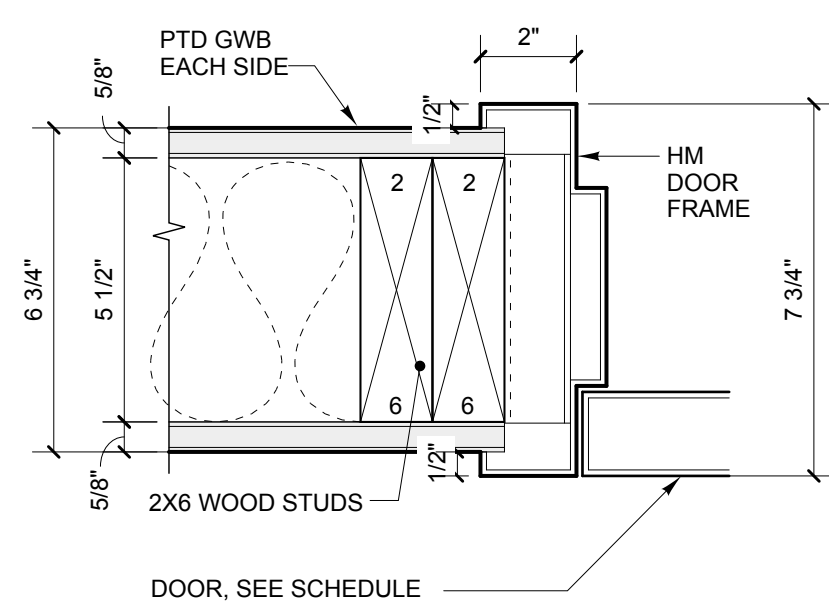
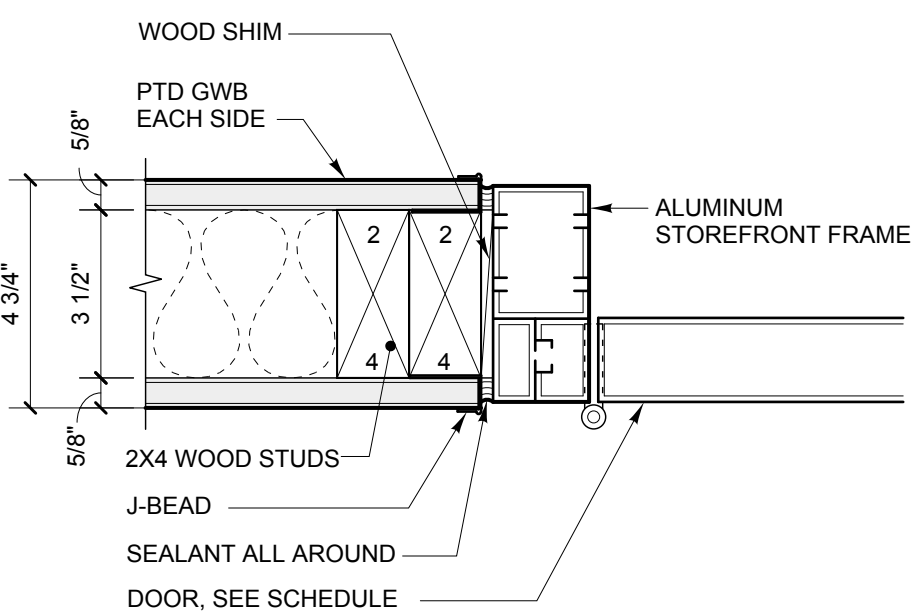
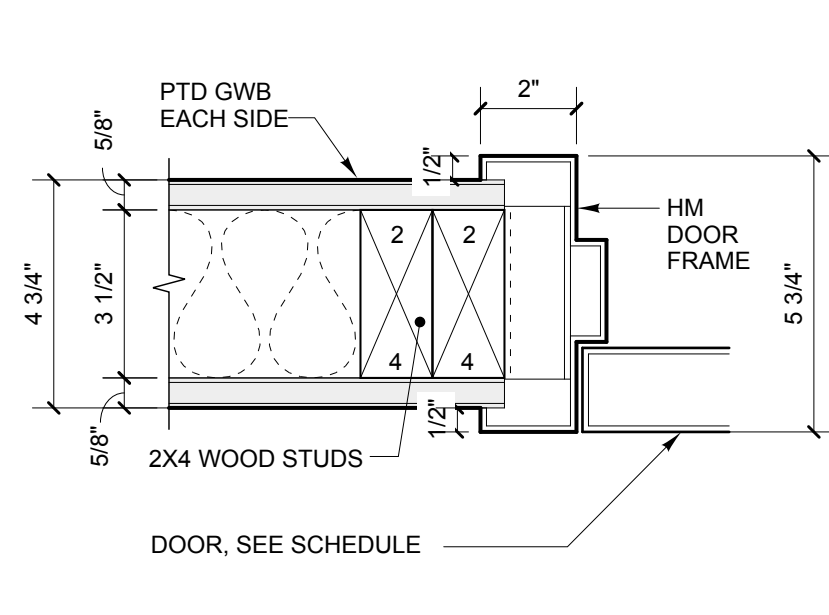
DOOR TYPES
 1/4" = 1'-0"



FRAME TYPES
 1/4" = 1'-0"



DOOR DETAILS



PAUL POTTE
 PROJECT MANAGER
 DATE: 3/26/11
 BY: [Signature]
 CHECKED: [Signature]
 DESIGN: [Signature]
 REVISIONS: 1, 2, 3, 4
 FIELD CHANGES

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND
 CUMBERLAND COUNTY
 DOOR SCHEDULE & DETAILS

DATE: 3/26/11
 BY: [Signature]
 CHECKED: [Signature]
 DESIGN: [Signature]
 REVISIONS: 1, 2, 3, 4
 FIELD CHANGES

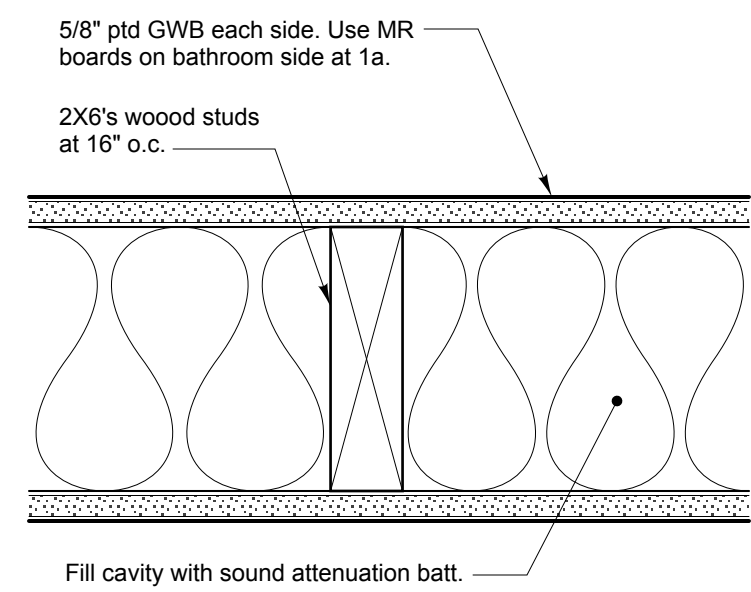
FINISH SCHEDULE

Room Name	Floor	Base	Walls	Ceiling	Remarks
Office 101	Carpet	4" rubber	Ptd GWB	ACT	
Office 102	Carpet	4" rubber	Ptd GWB	ACT	
Meeting 103	Carpet	4" rubber	Ptd GWB	ACT	
Office 104	Carpet	4" rubber	Ptd GWB	ACT	
Security Office 105	Carpet	4" rubber	Ptd GWB	ACT	
Secure Hallway 106	Concrete	4" rubber	Ptd GWB	SWC	
Entry 107	Entry carpet	4" rubber	Ptd GWB	ACT	
Office 108	Carpet	4" rubber	Ptd GWB	ACT	
Workroom 109	Resilient	4" rubber	Ptd GWB	ACT	
Server / Data 110	Resilient	4" rubber	Ptd GWB	ACT	
Kitchenette 111	Resilient	4" rubber	Ptd GWB	ACT	
Toilet / Shower 112	CT	4" CT	Ptd GWB	MR-ACT	
Men's Room 113	CT	4" CT	Ptd GWB	ACT	
Women's Room 114	CT	4" CT	Ptd GWB	ACT	
Entry 115	Entry carpet	4" rubber	Ptd GWB	SWC	
Public Lobby / Hallway 116	Concrete	4" rubber	Ptd GWB	SWC	
Conference 117	Carpet	4" wood	Ptd GWB	SWC	
Janitor / Storage 118	Resilient	4" rubber	Ptd GWB	ACT	
Electrical 119	Resilient	4" rubber	Ptd GWB	ACT	
Mechanical 120	Resilient	4" rubber	Ptd GWB	No ceiling	
Office 121	Carpet	4" rubber	Ptd GWB	ACT	
Offices-2 122	Carpet	4" rubber	Ptd GWB	ACT	
Vestibule 123	Entry carpet	4" rubber	Ptd GWB	SWC	
Offices-2 124	Carpet	4" rubber	Ptd GWB	ACT	
Office 125	Carpet	4" rubber	Ptd GWB	ACT	

ABBREVIATIONS

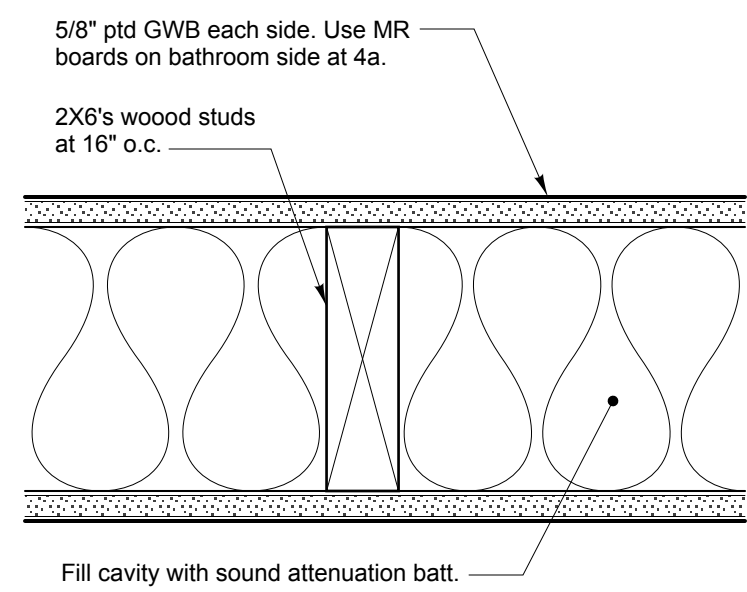
CT	Ceramic Tile
GWB	Gypsum Wall Board
ACT	Acoustical Ceiling Tile
MR-ACT	Moisture Resistant Acoustical Ceiling Tile
SWC	Suspended Wood Ceiling
PTD	Painted

PARTITION TYPES



1 Typical Interior Bearing Partition
As Shown. Extend from slab to underside of roof panels

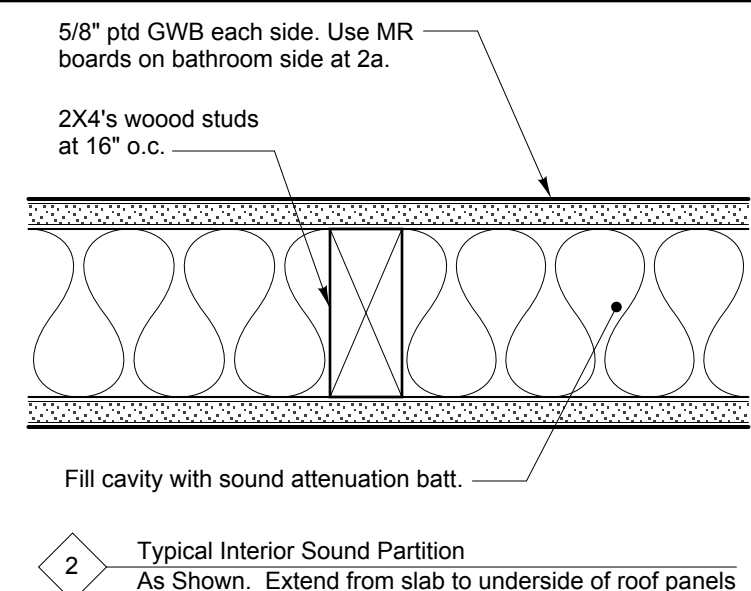
1a Typical Interior Bearing Partition at Bathroom
Use 5/8" MR Board on Bathroom side in lieu of GWB. Extend from slab to underside of roof panels



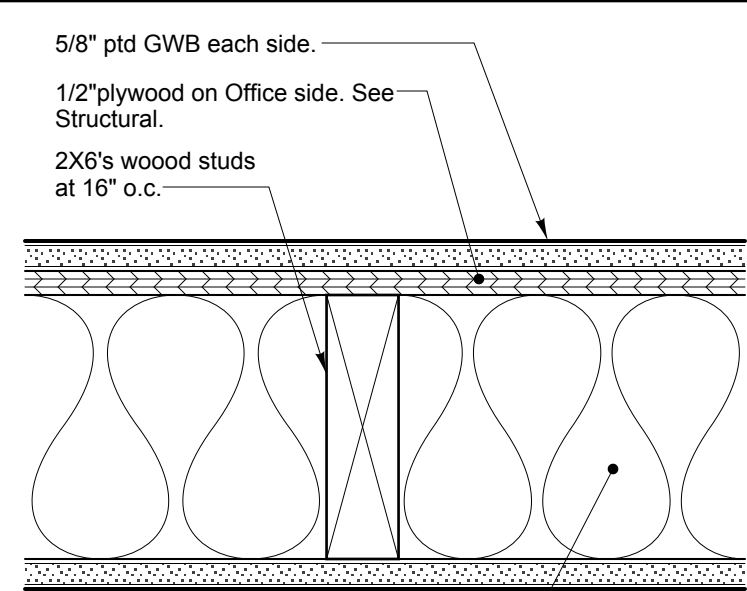
4 Interior Sound Partition
As Shown. Extend from slab to underside of roof panels

4a Interior Sound Partition at Bathroom
Use 5/8" MR Board on Bathroom side in lieu of GWB. Extend from slab to underside of roof panels

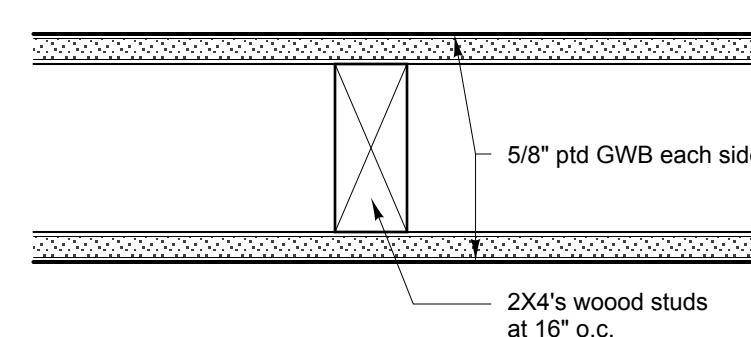
4b Interior Partition
Omit sound attenuation batt.



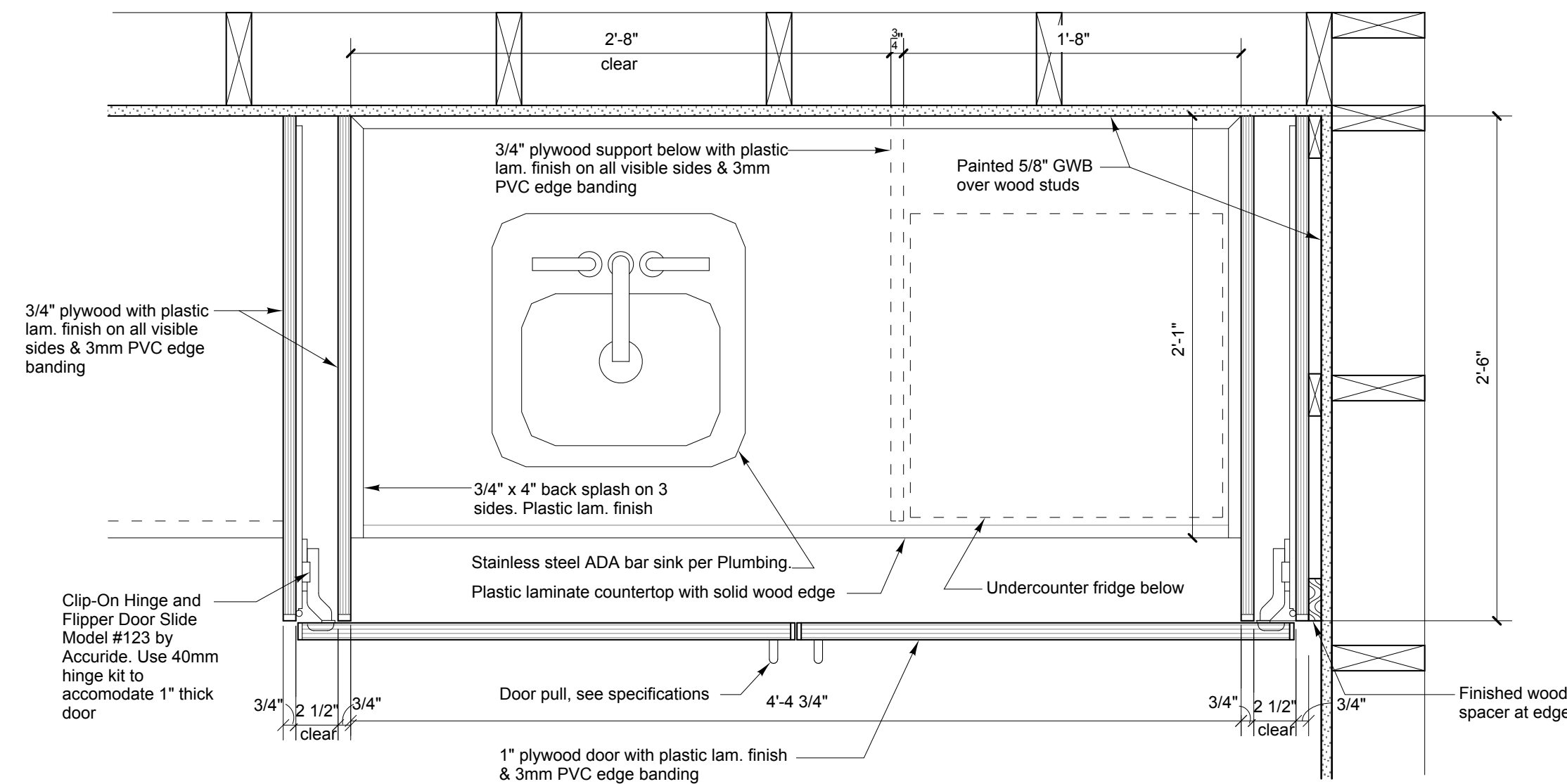
2 Typical Interior Sound Partition
As Shown. Extend from slab to underside of roof panels



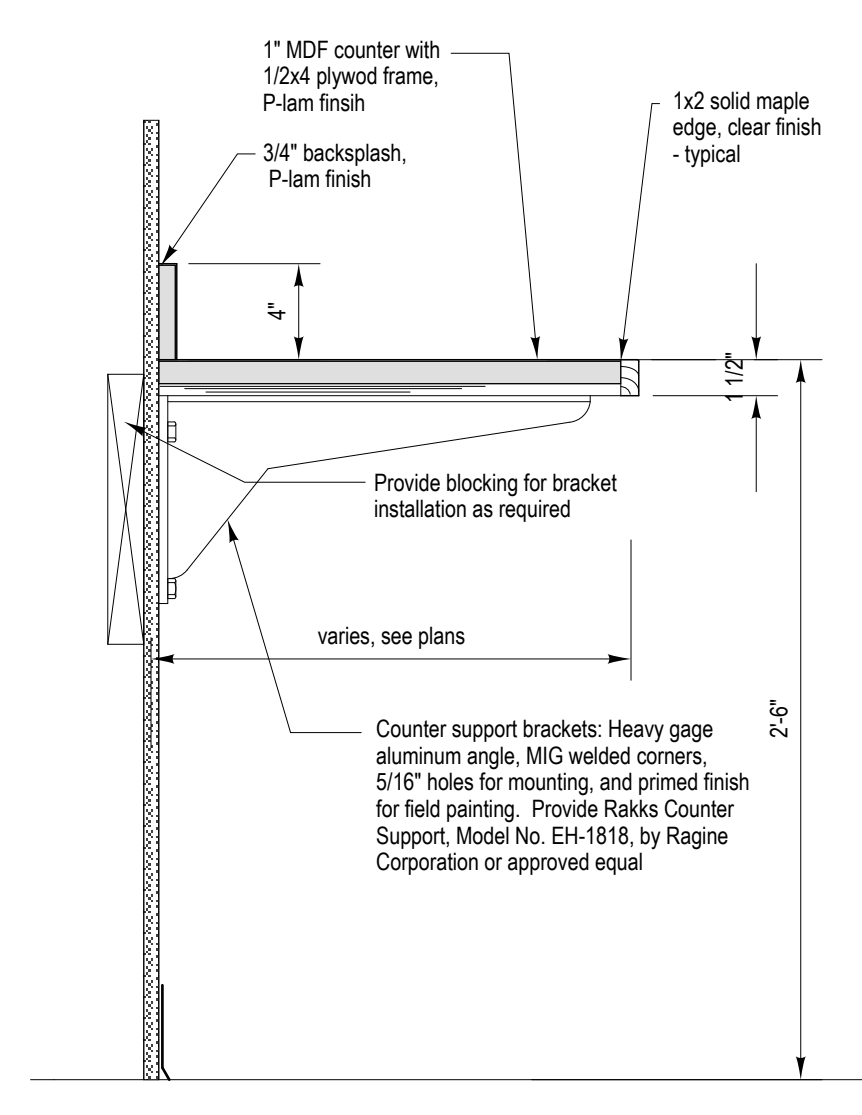
2a Typical Interior Sound Partition at Bathroom
Use 5/8" MR Board on Bathroom side in lieu of GWB. Extend from slab to underside of roof panels



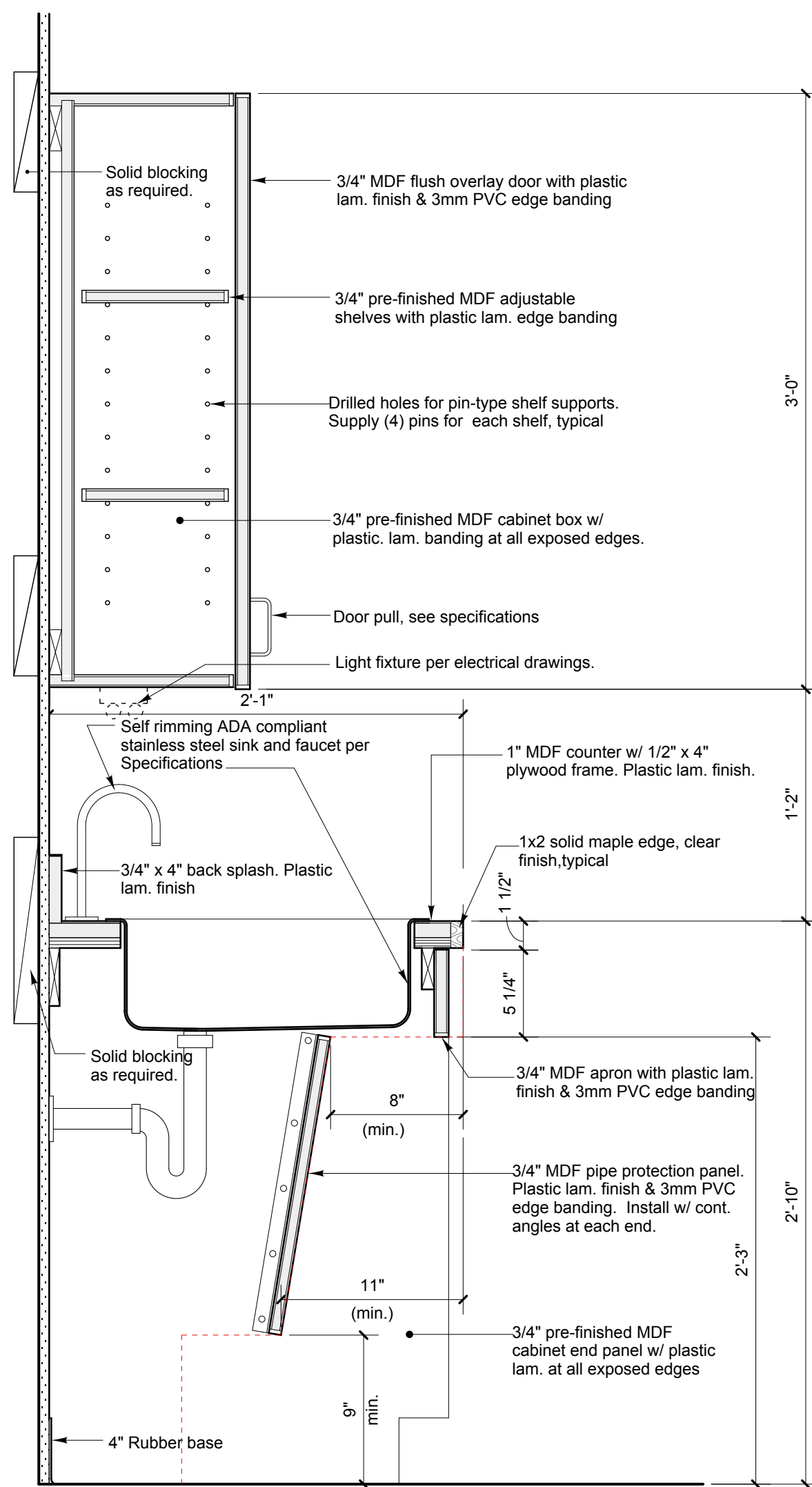
3 Typical Interior Partition
As Shown.



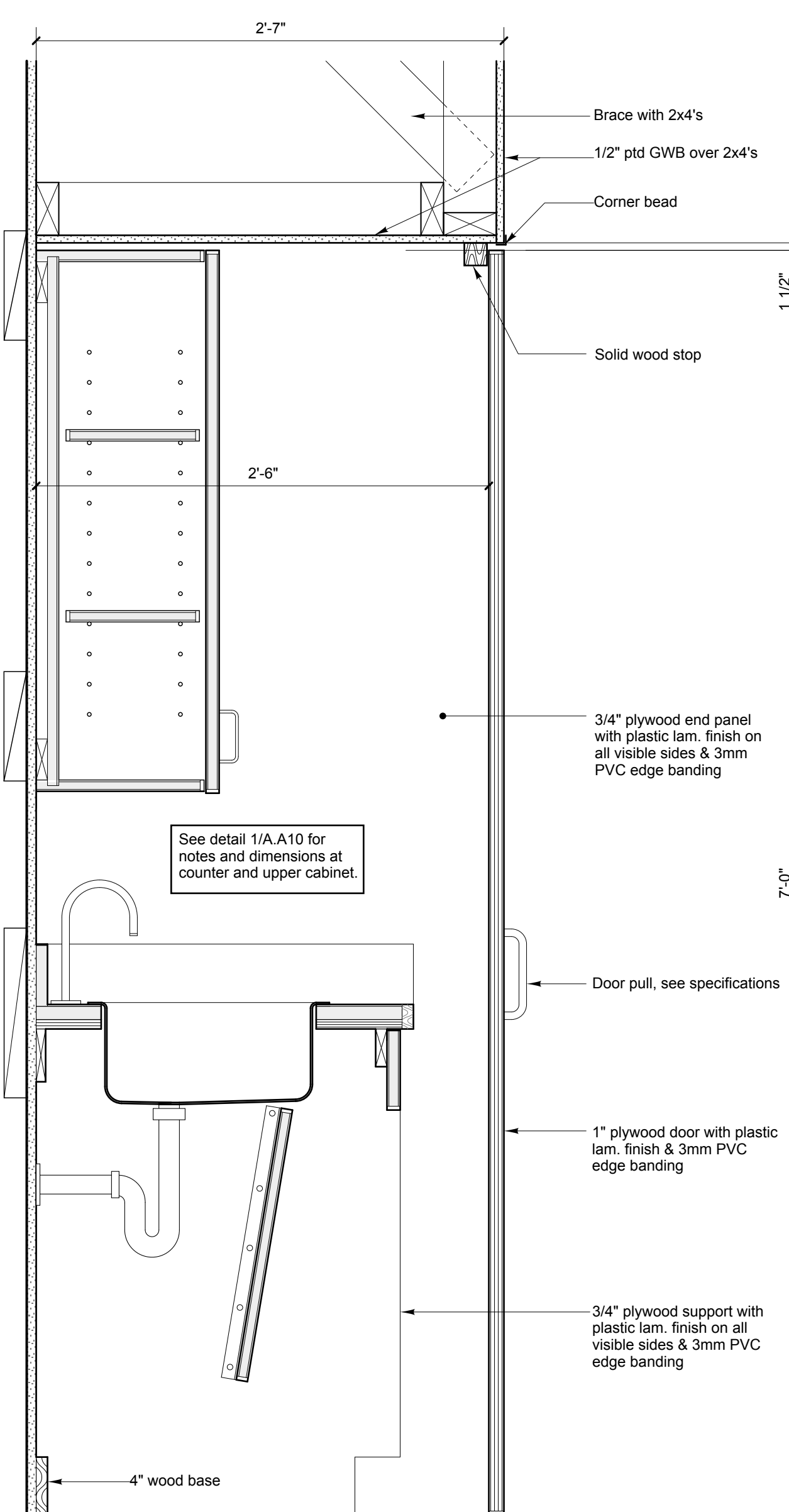
3 PLAN DETAIL AT CONF. ROOM SINK CABINET
SCALE: 1 1/2" = 1'-0"



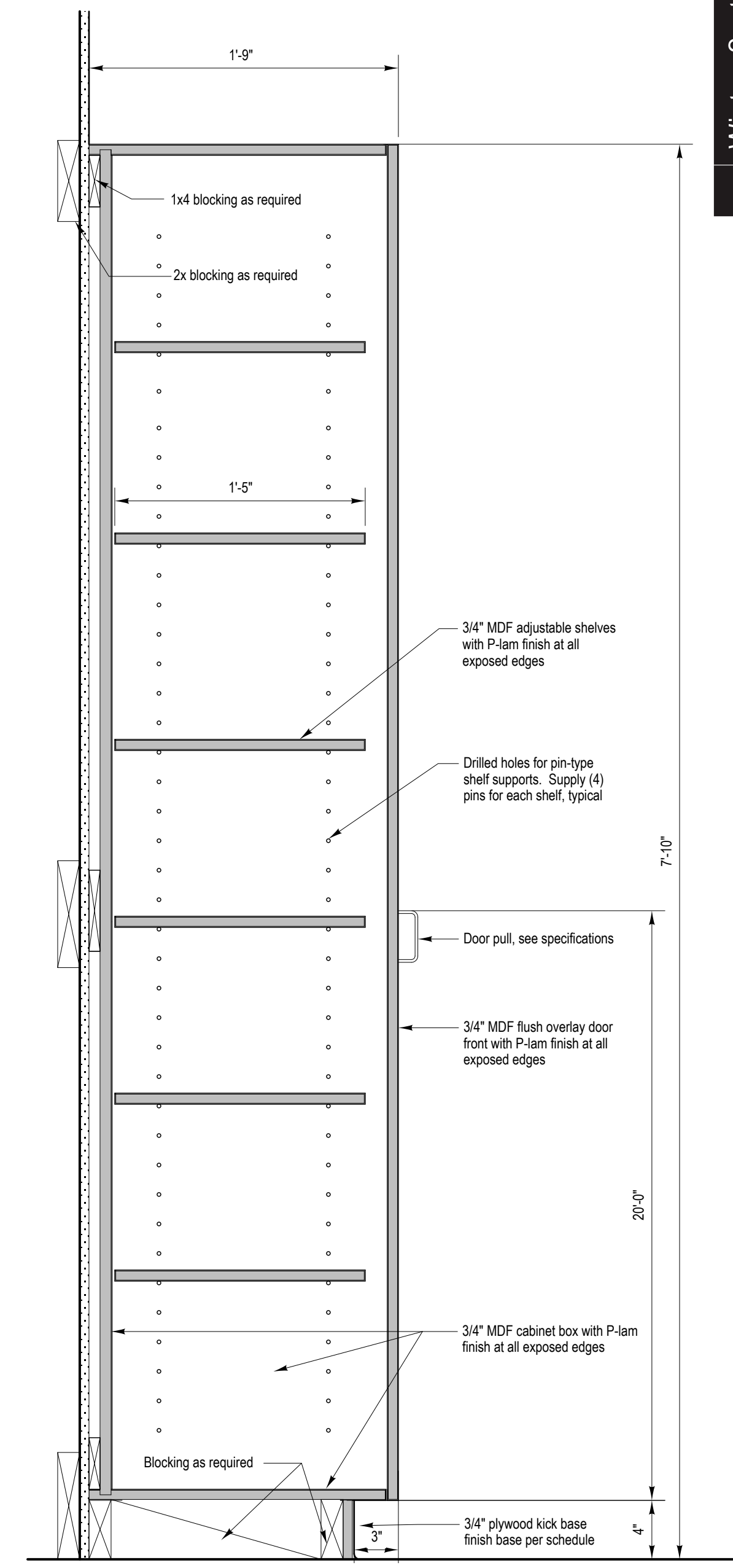
5 COUNTERTOP DETAIL
SCALE: 1 1/2" = 1'-0"



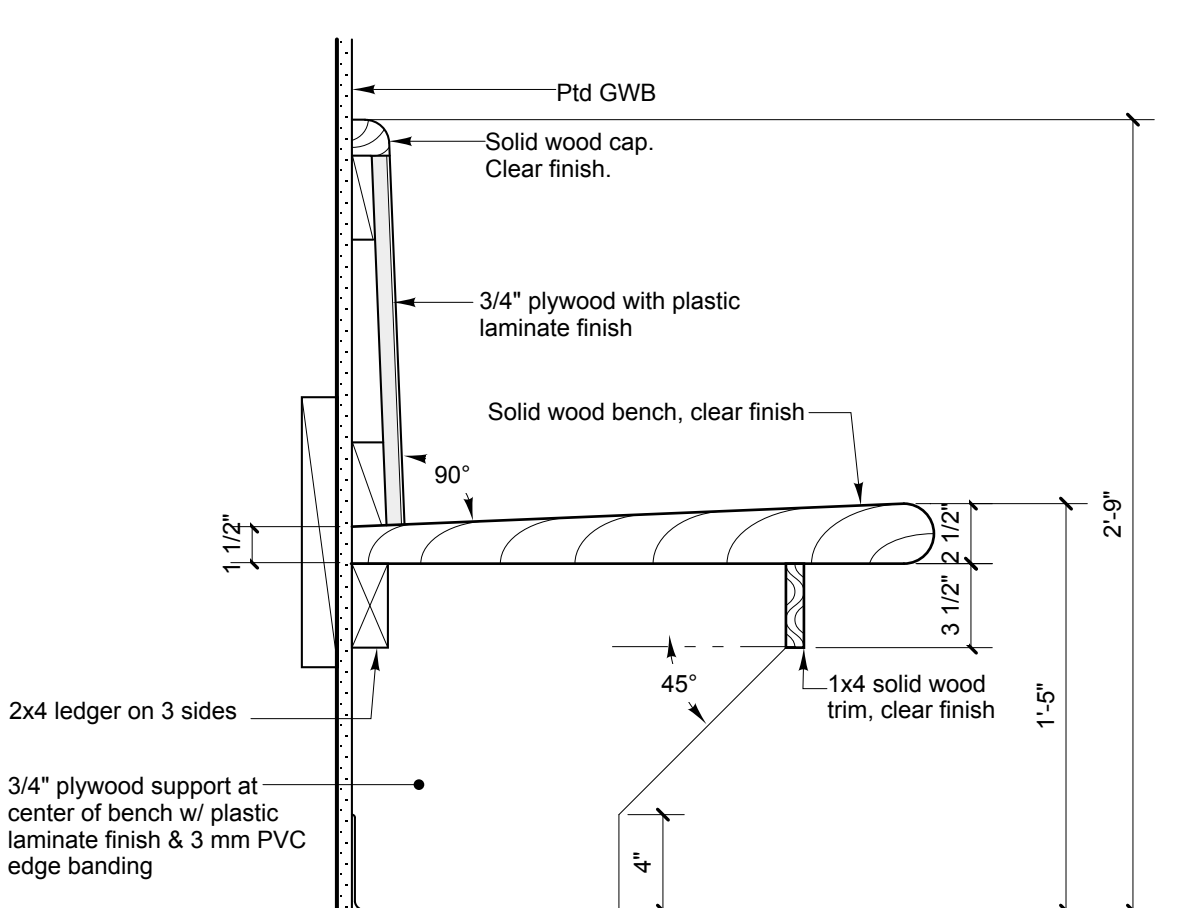
1 SECTION DETAIL AT SINK
SCALE: 1 1/2" = 1'-0"



2 SECTION DETAIL AT CONF. ROOM SINK CABINET
SCALE: 1 1/2" = 1'-0"



6 CABINET DETAIL AT CONFERENCE RM.
SCALE: 1 1/2" = 1'-0"



4 ENTRY BENCH DETAIL
SCALE: 1 1/2" = 1'-0"

Winton Scott Architects

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 01782.00
PIN 017820.00



DATE	BY	PAUL POTTE	ML	SWW	DATE	DATE
3/26/11						3/26/11

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
FINISH SCHEDULE
PARTITION TYPES & DETAILS

SHEET NUMBER

A.A10

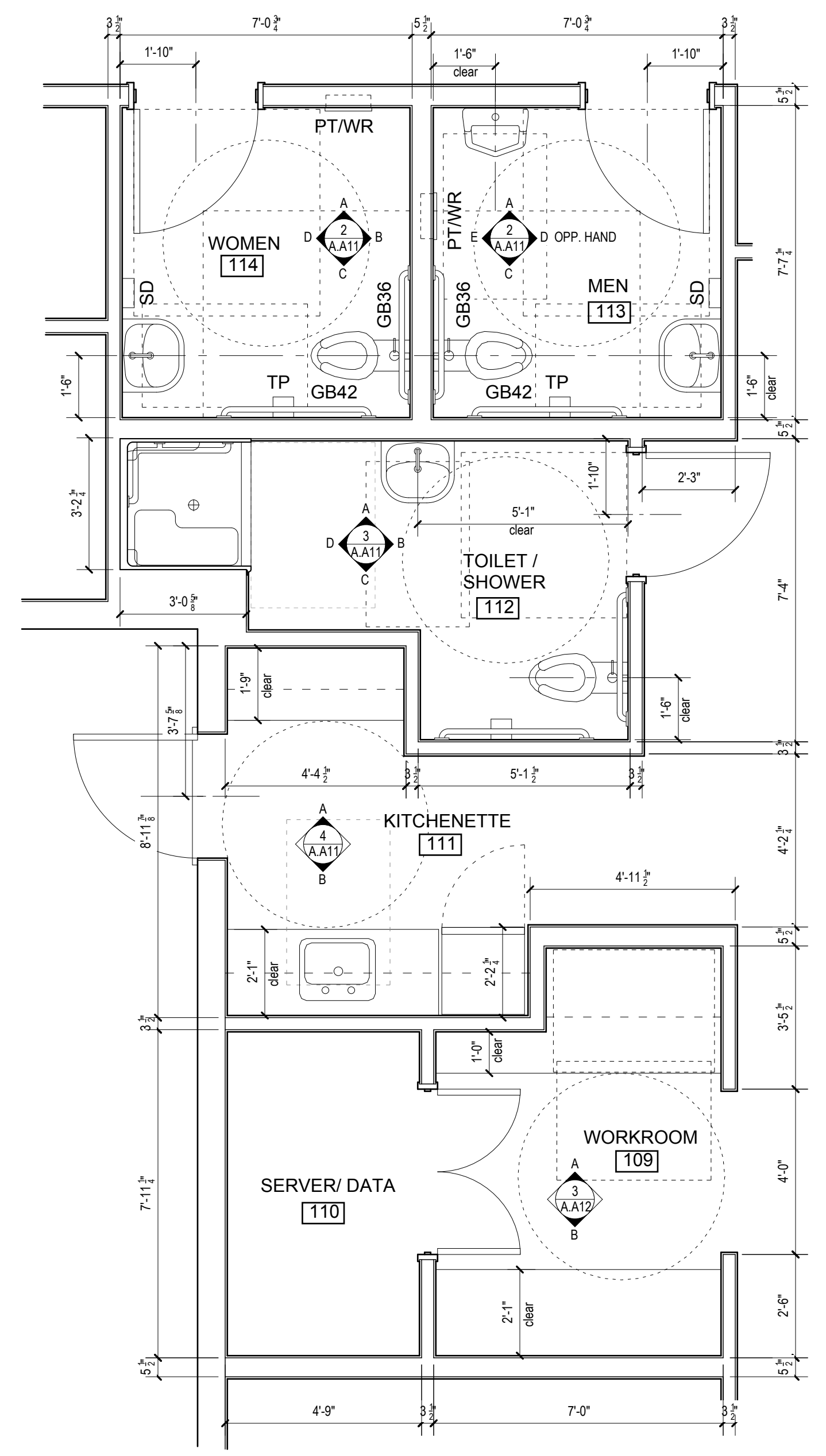


PROJ. MANAGER	CRAIG MORIN	BY	DATE
DESIGN-DETAILED	-	-	3/25/11
CHECKED-REVIEWED	-	-	-
DESIGNED-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

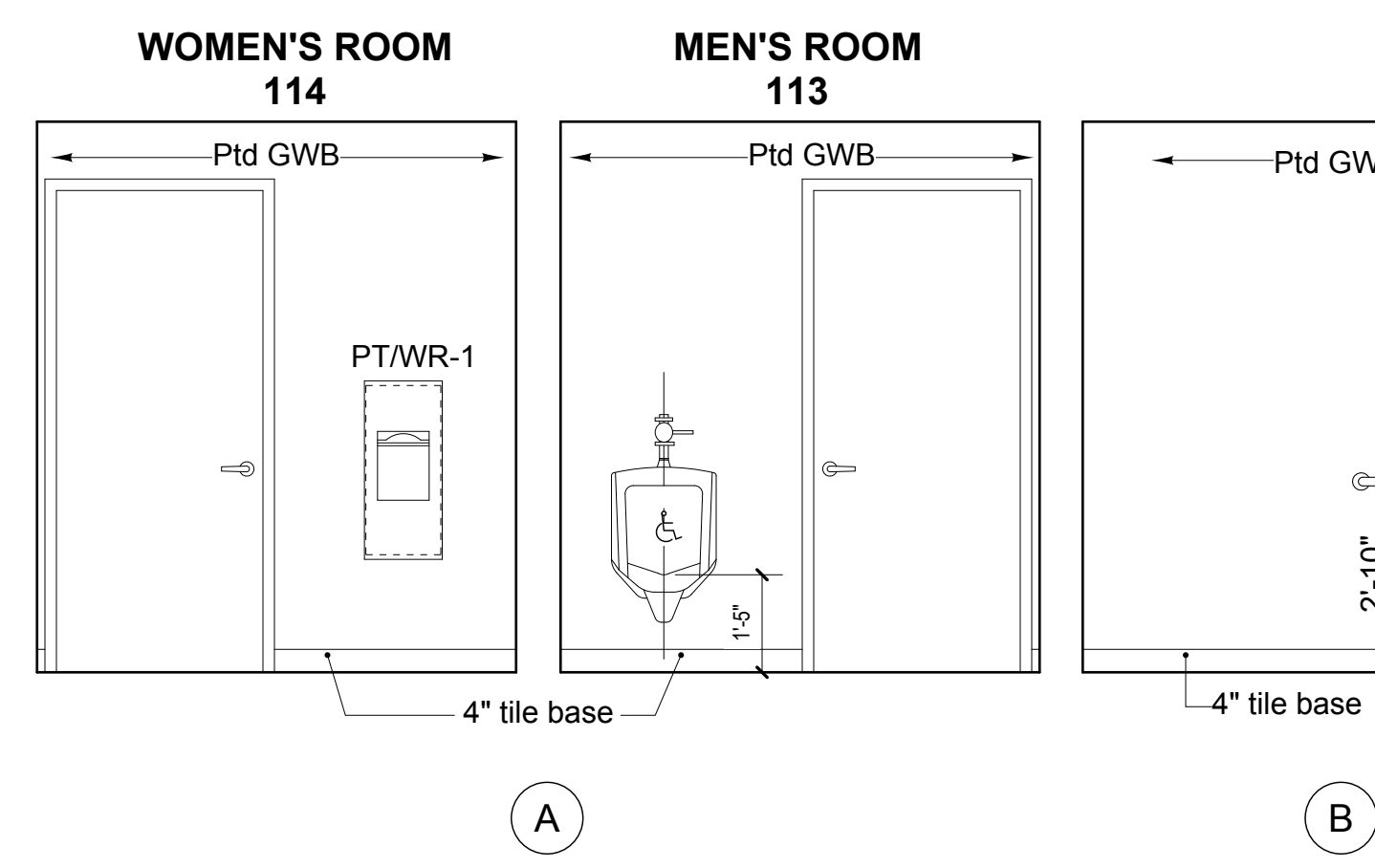
PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
BATHROOM & KITCHENETTE
FLOOR PLANS & ELEVATIONS

SHEET NUMBER

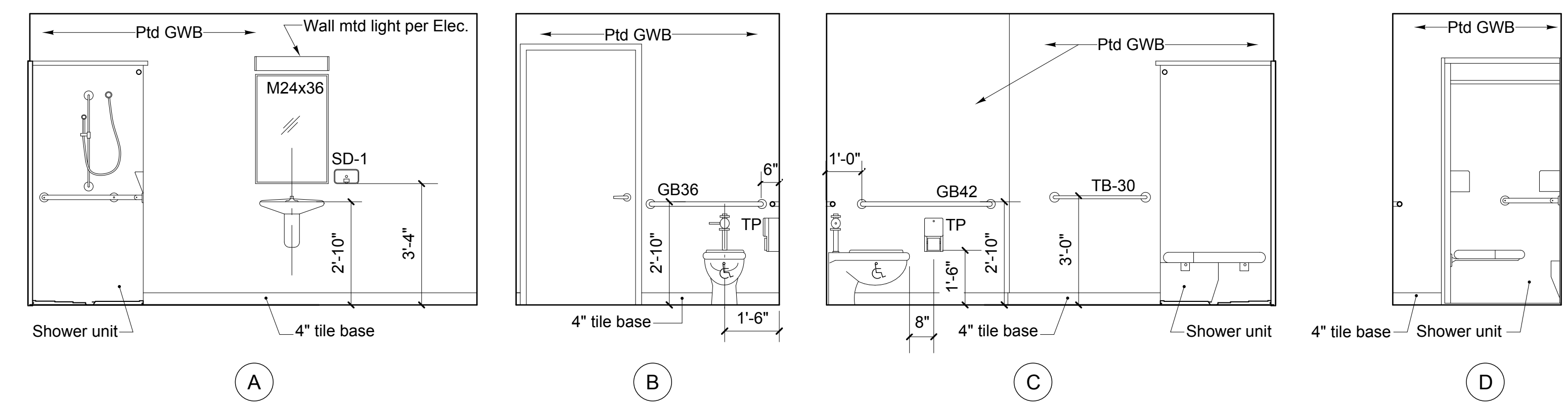
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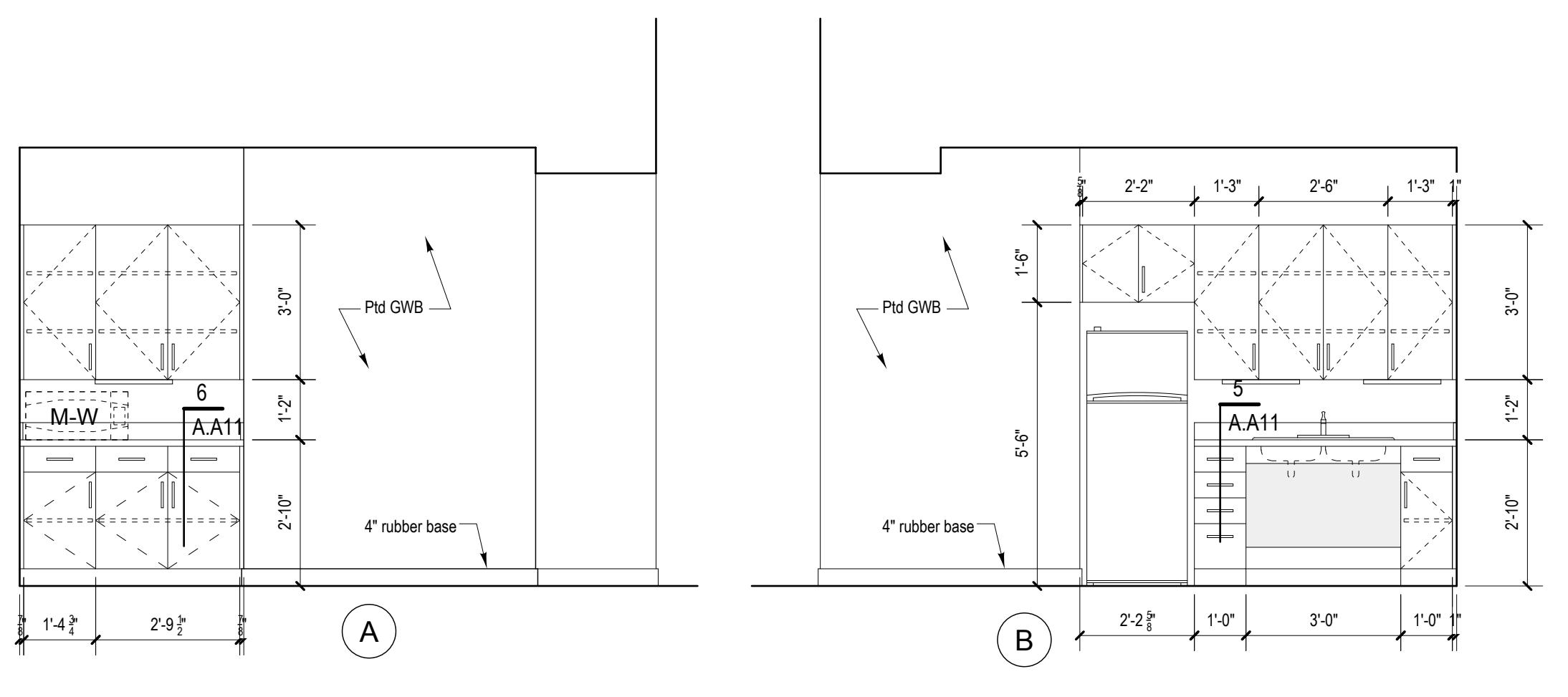
1 BATHROOMS & KITCHENETTE ENLARGED PLAN
SCALE: 3/8" = 1'-0"



2 TOILET ROOM ELEVATIONS
SCALE: 3/8" = 1'-0"

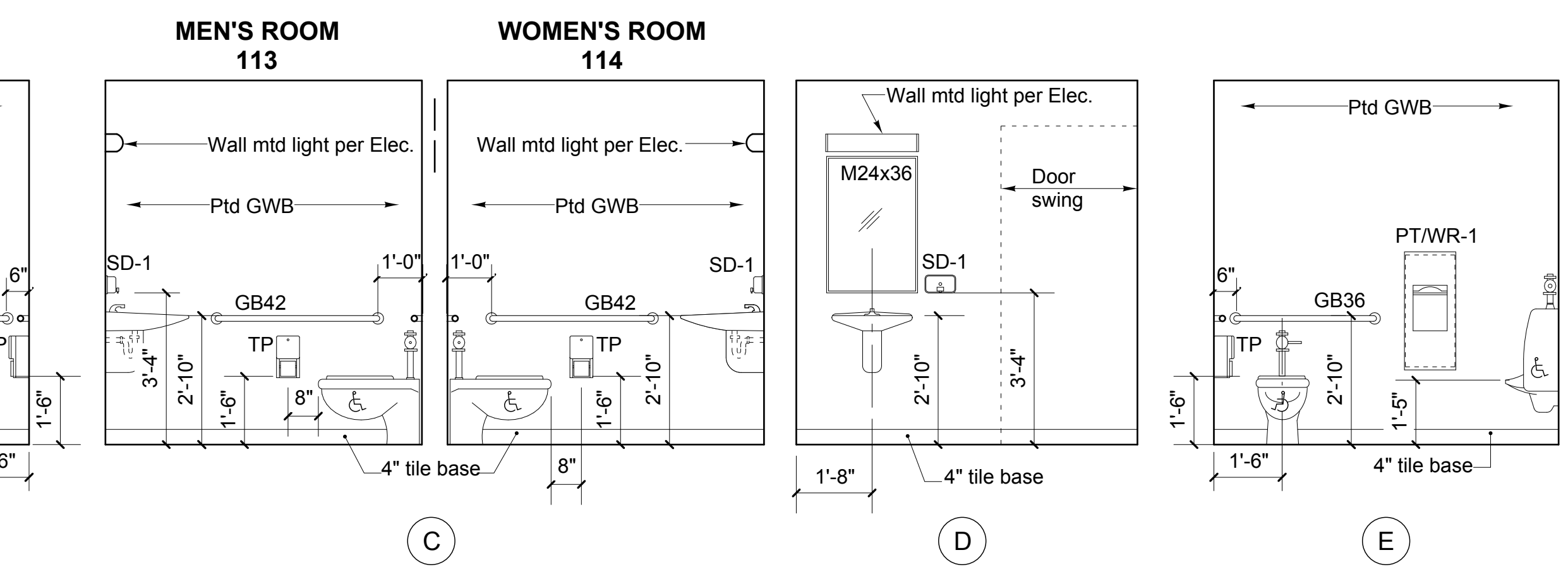


3 TOILET / SHOWER ROOM ELEVATIONS
SCALE: 3/8" = 1'-0"

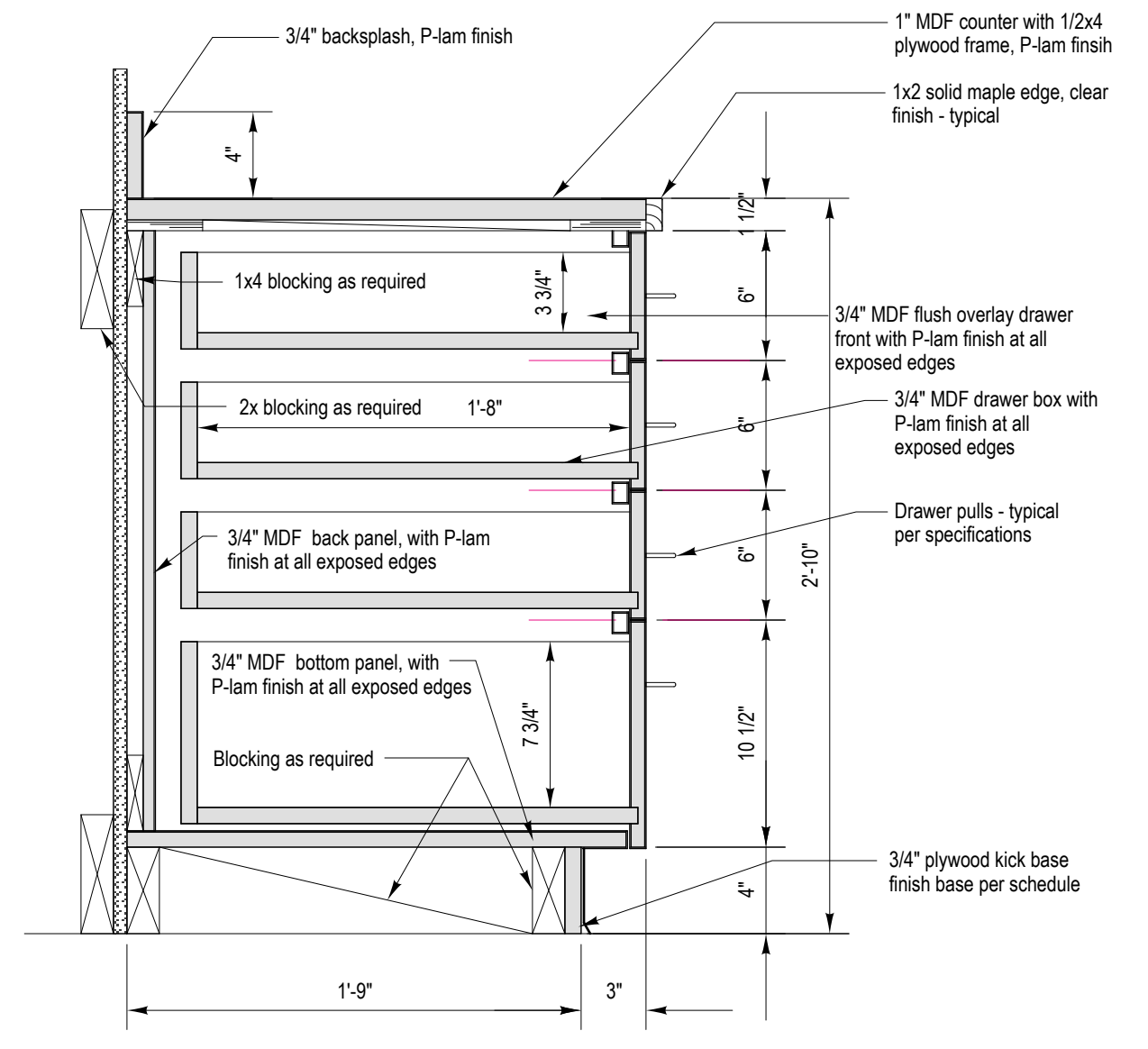


4 KITCHENETTE 111 - ELEVATIONS
SCALE: 3/8" = 1'-0"

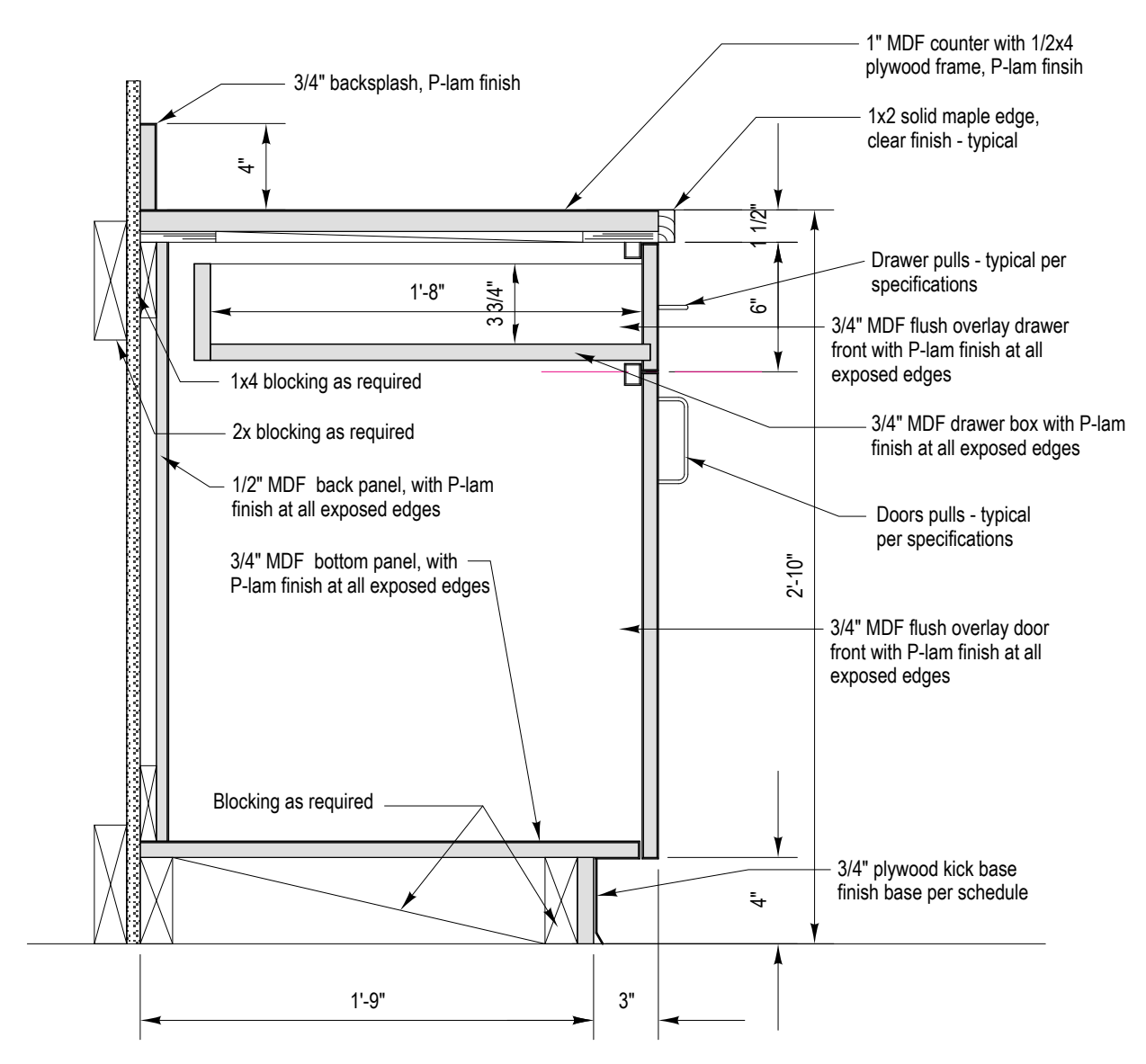
NOTE:
COORDINATE ELECTRICAL & VOICES OUTLET
LOCATIONS WITH ELECTRICAL DRAWINGS.



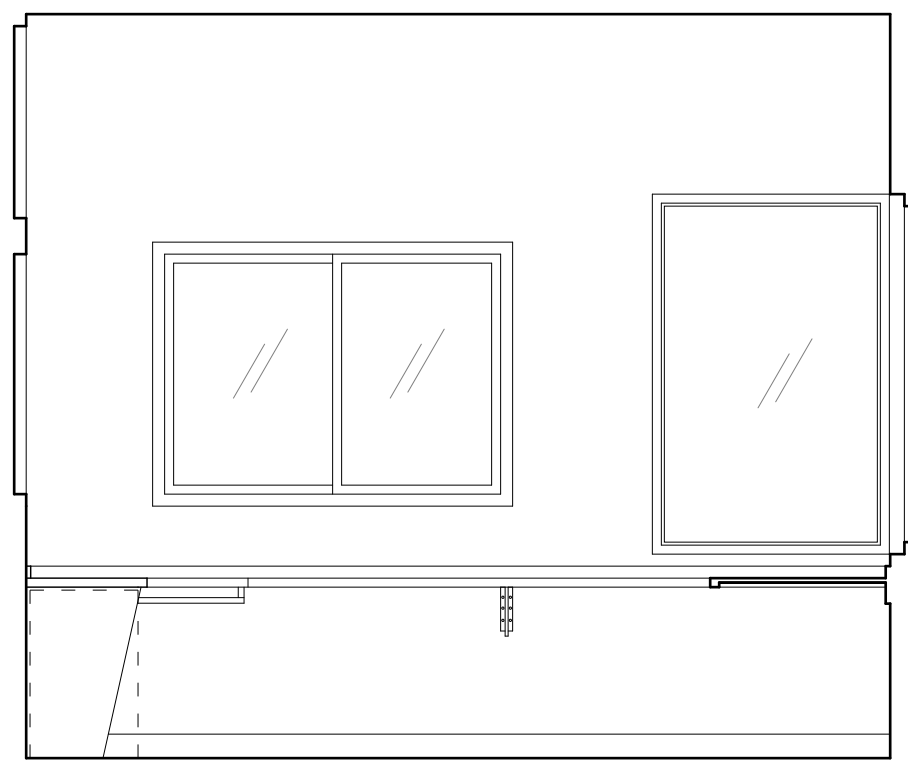
5 BASE CABINET -FULL HT. DRAWERS DETAIL
SCALE: 1 1/2" = 1'-0"



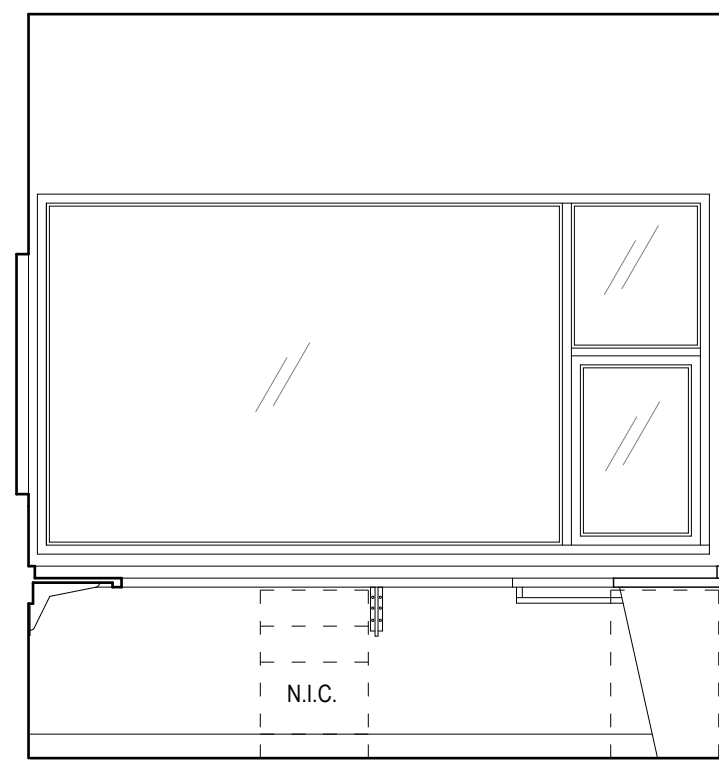
6 BASE CABINET -FULL HT. DRAWERS DETAIL
SCALE: 1 1/2" = 1'-0"



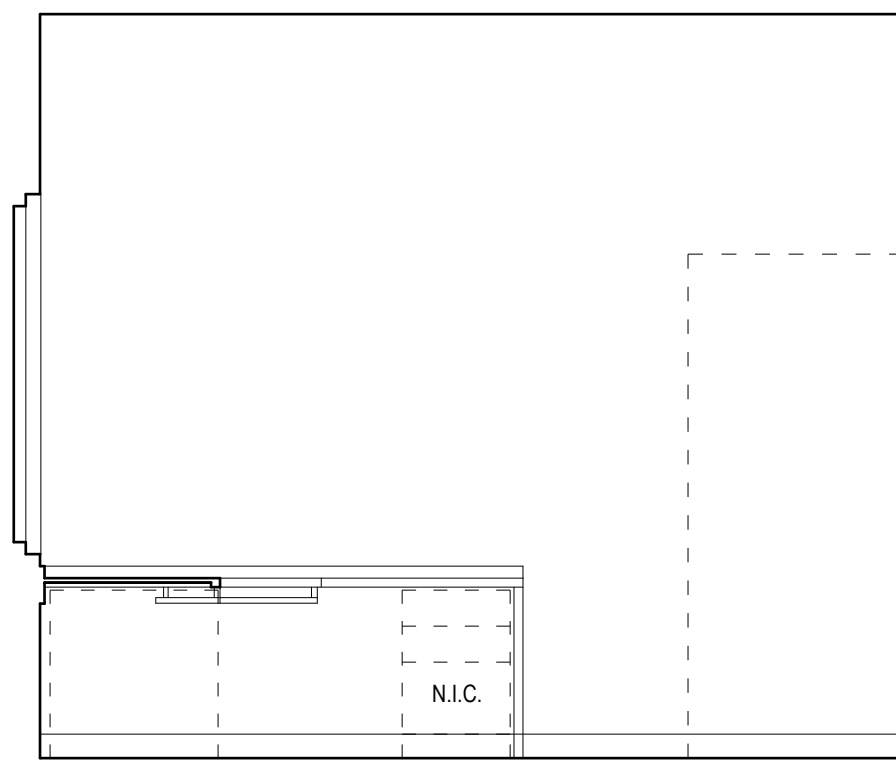
6 BASE CABINET -FULL HT. DRAWERS DETAIL
SCALE: 1 1/2" = 1'-0"



A



B

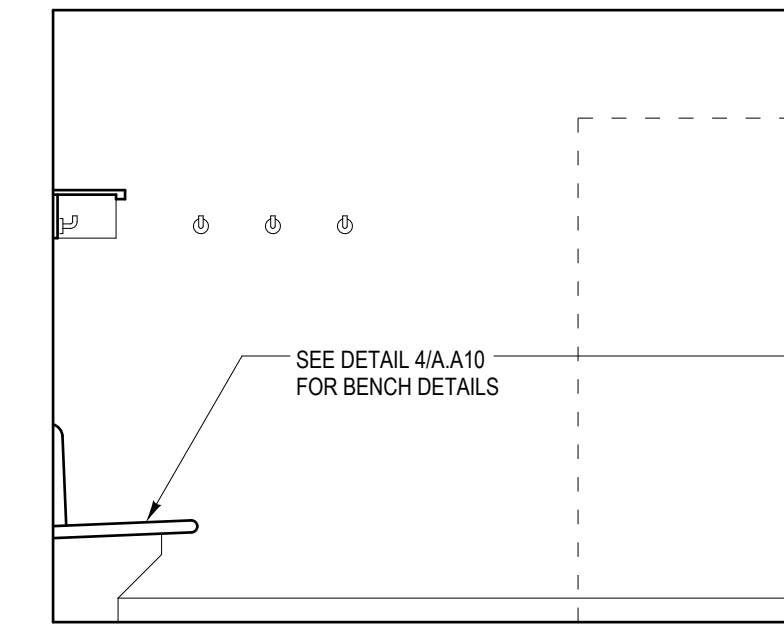


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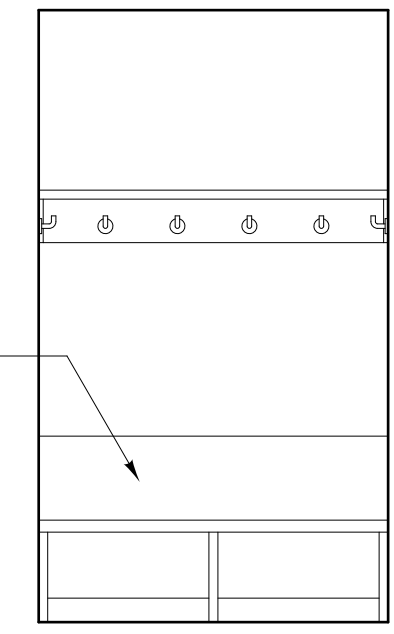


D

1 SECURITY OFFICE 105 - ELEVATIONS
SCALE: 3/8" = 1'-0"

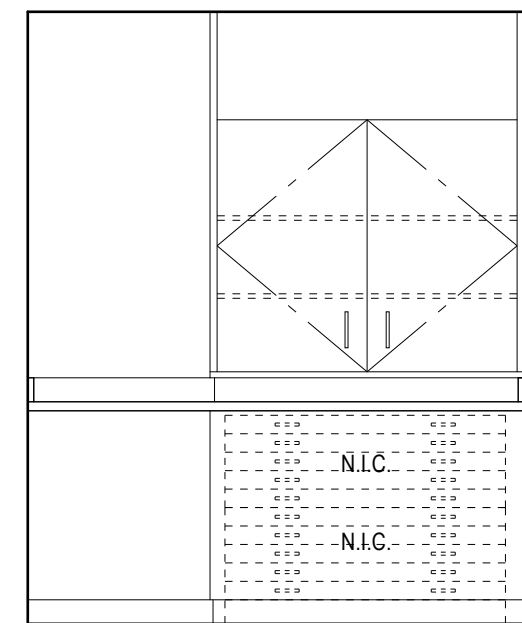


A

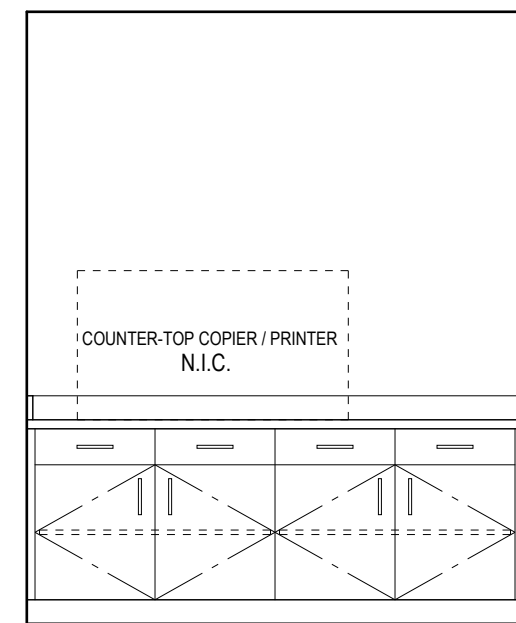


A

2 ENTRY 107 - ELEVATIONS
SCALE: 3/8" = 1'-0"

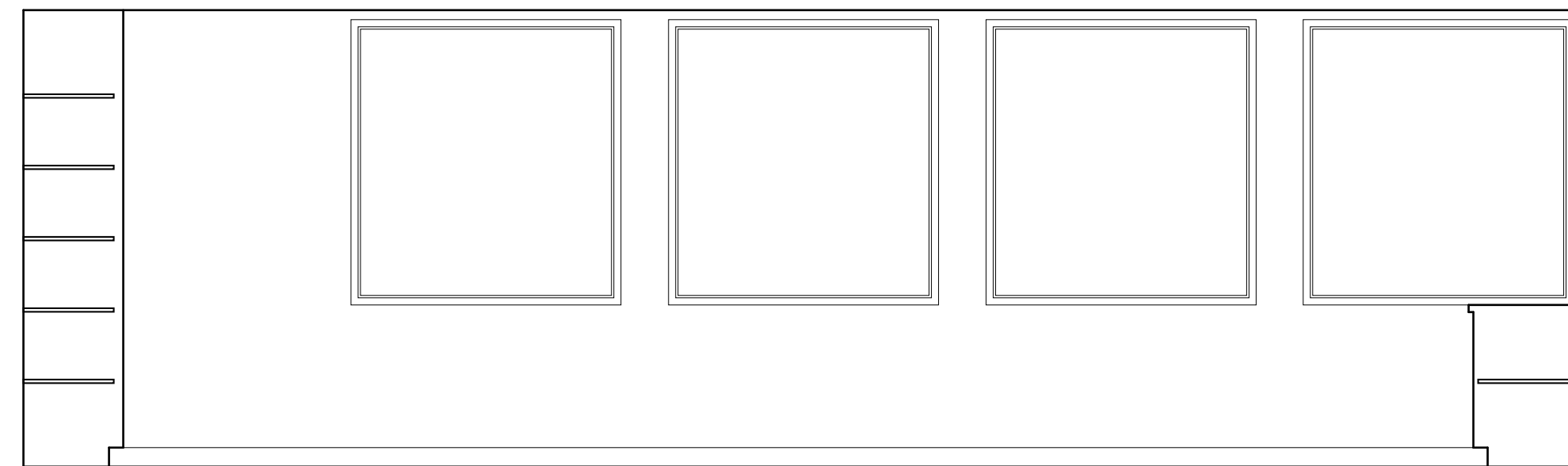


A



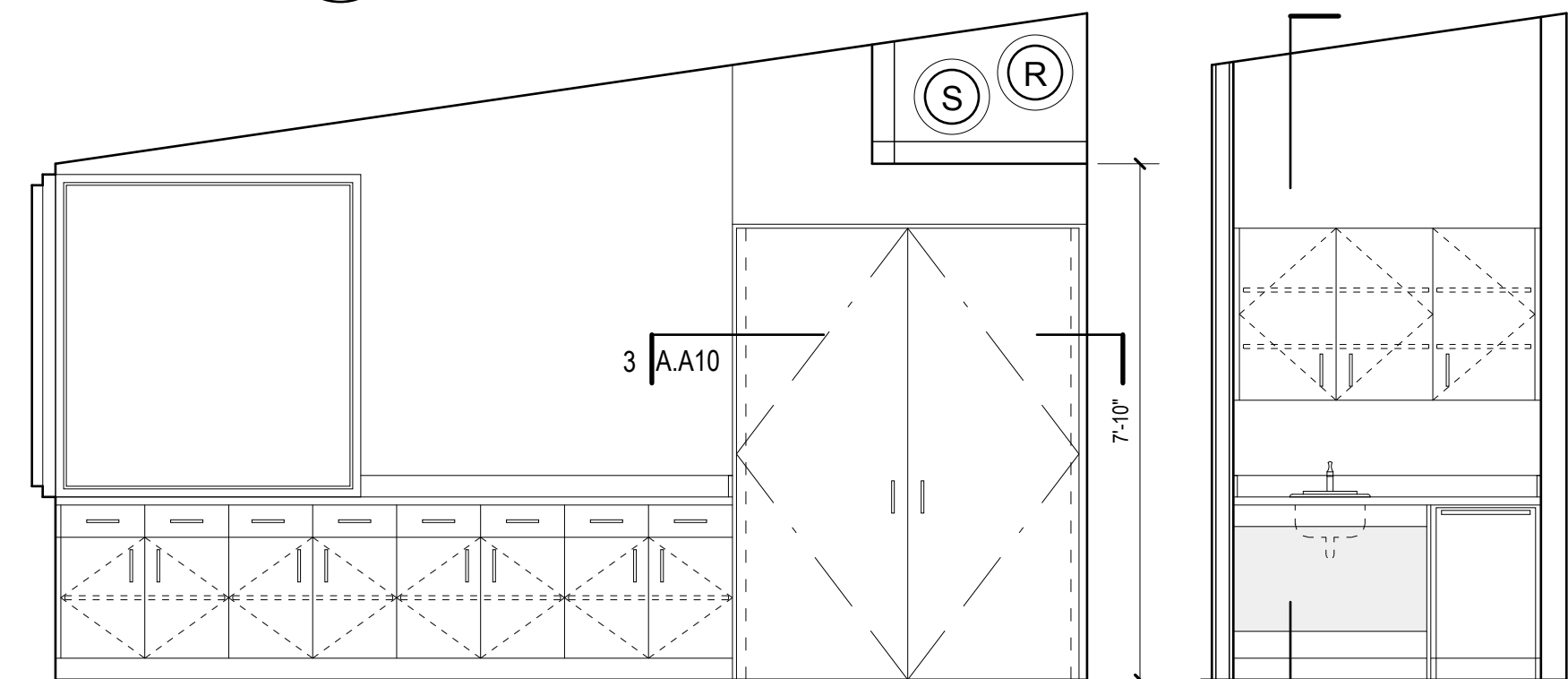
B

3 WORKROOM 109 - ELEVATIONS
SCALE: 3/8" = 1'-0"



A

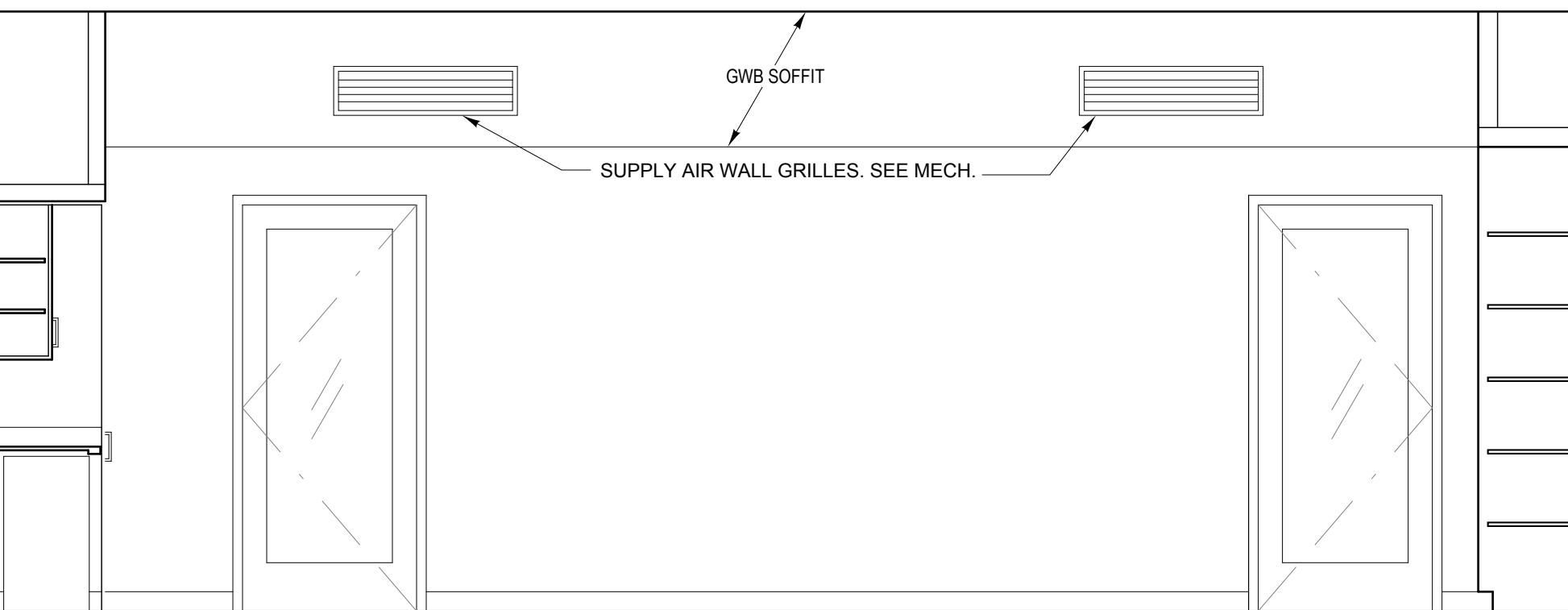
4 CONFERENCE ROOM 117 - ELEVATIONS
SCALE: 3/8" = 1'-0"



B

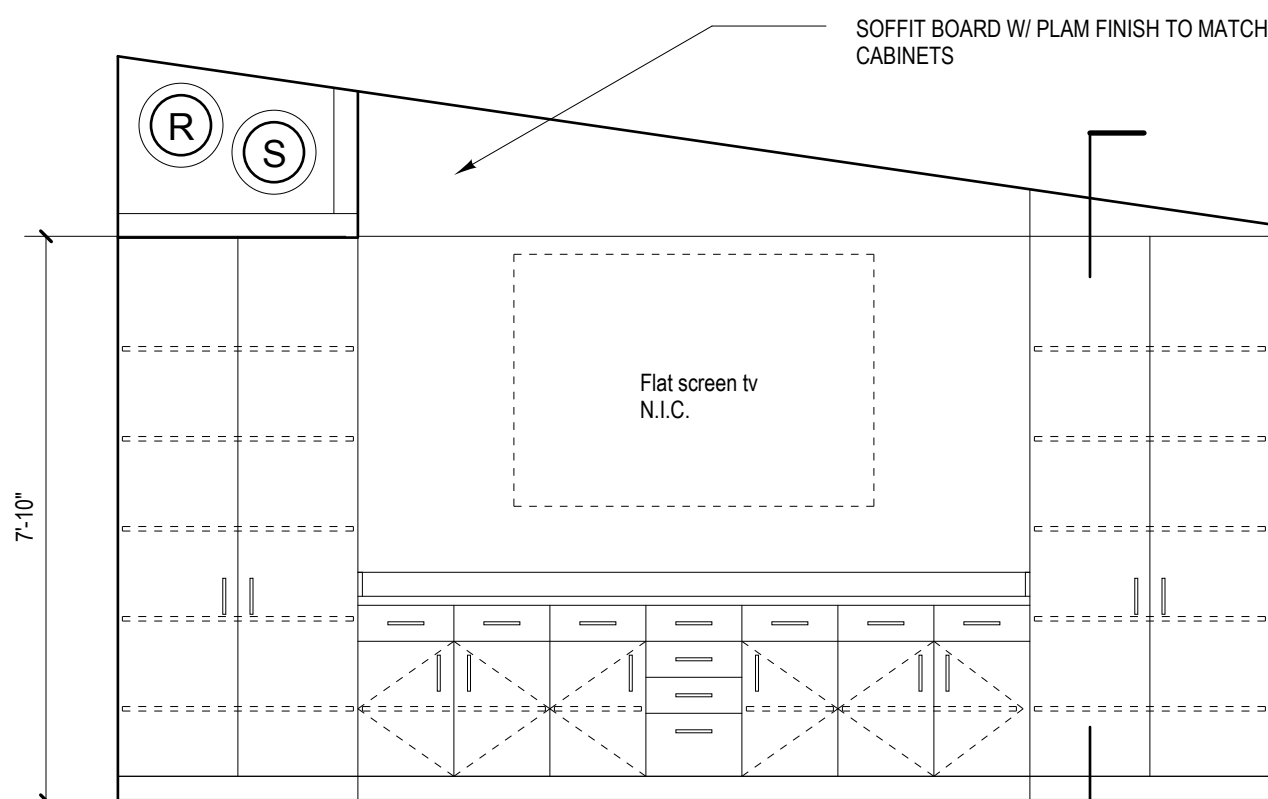
B1

2 A.A10



C

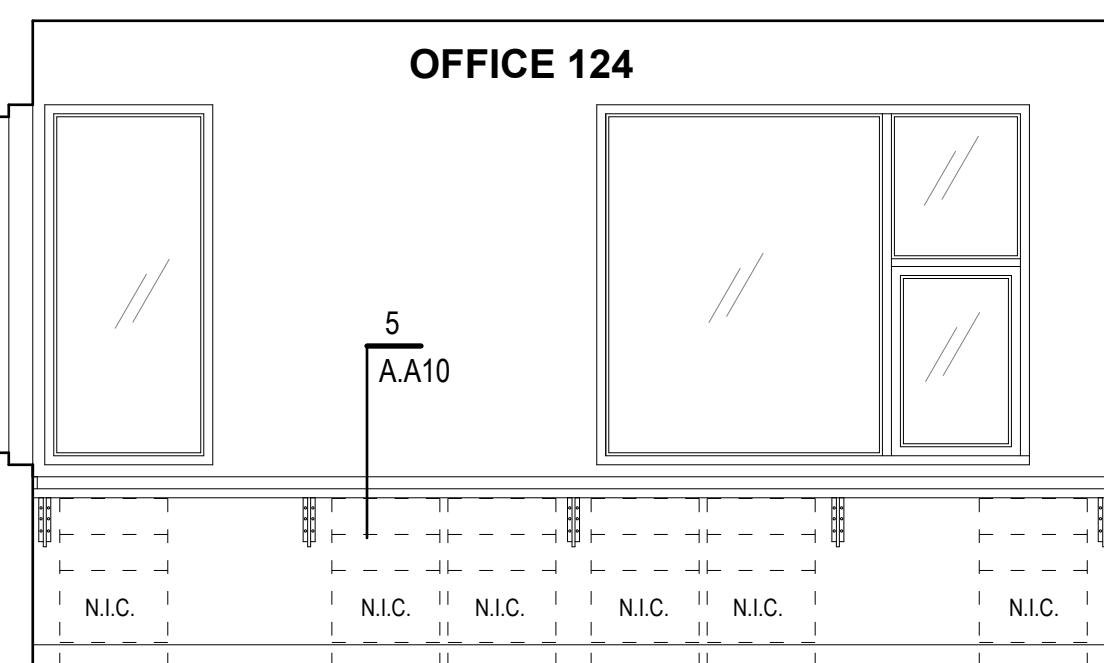
4 CONFERENCE ROOM 117 - ELEVATIONS
SCALE: 3/8" = 1'-0"



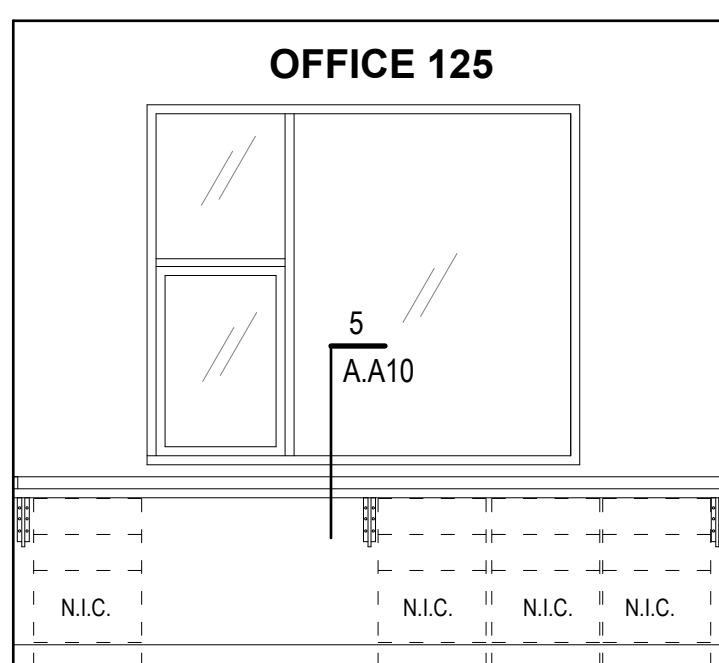
D

6 A.A10

NOTE:
COORDINATE ELECTRICAL & VOICES OUTLET
LOCATIONS WITH ELECTRICAL DRAWINGS.

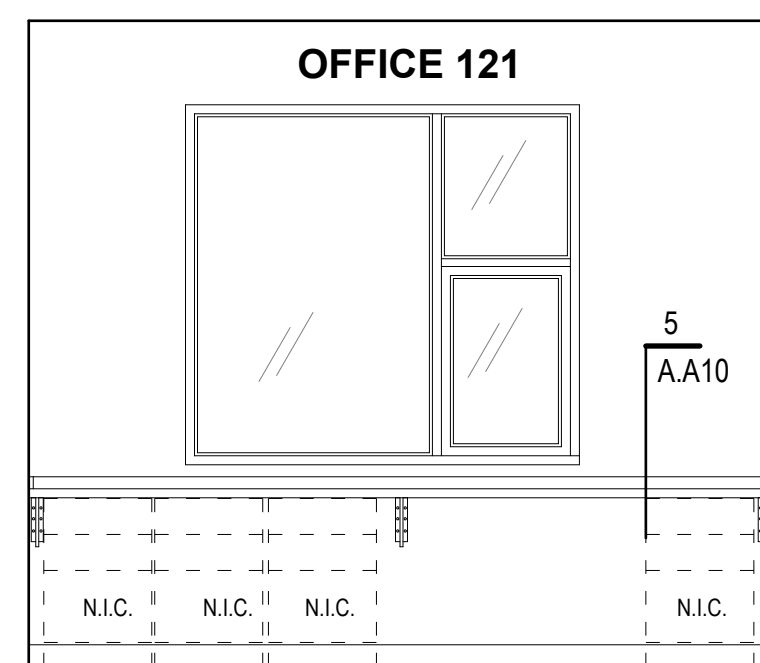


5 A.A10

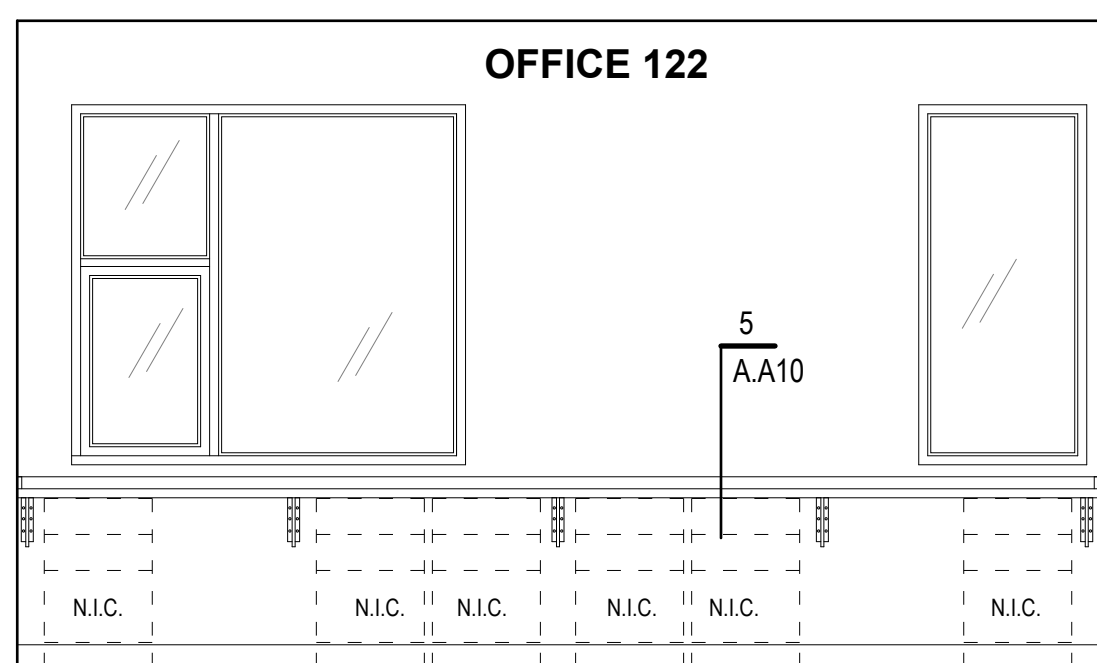


5 A.A10

5 OFFICES 124 & 125 - ELEVATIONS
SCALE: 3/8" = 1'-0"



5 A.A10



5 A.A10

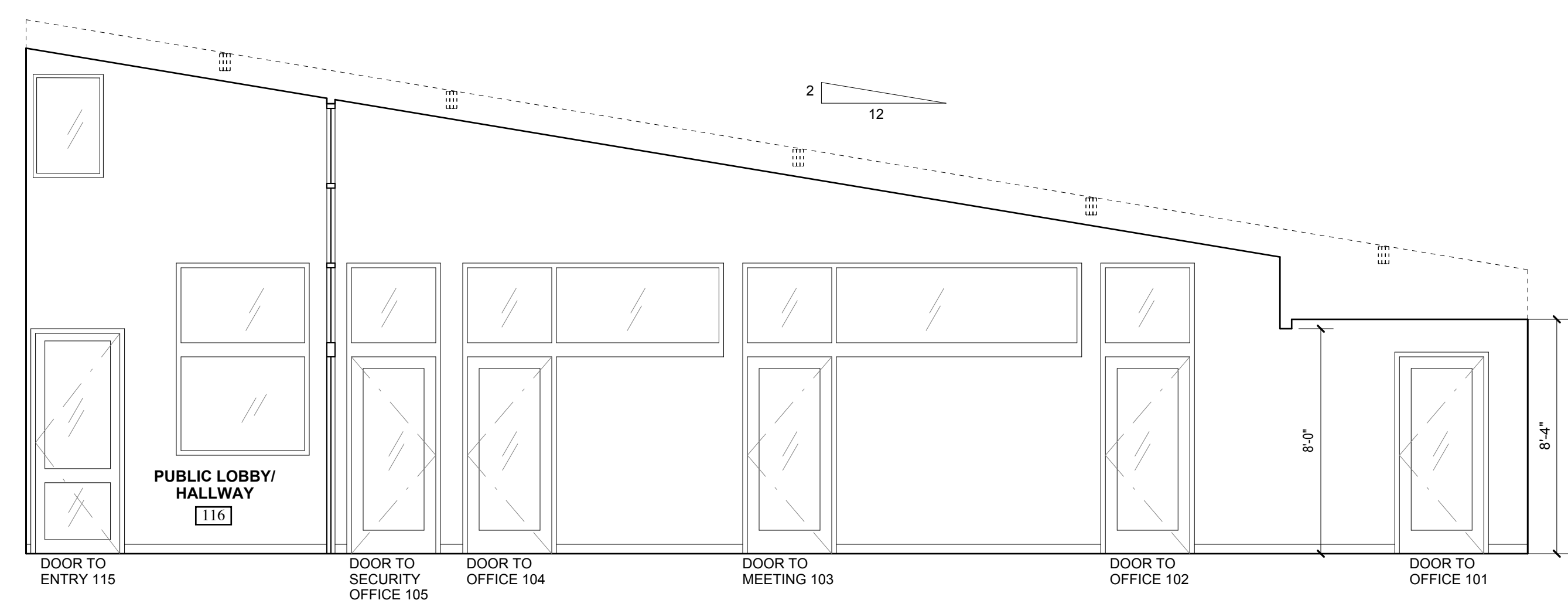
6 OFFICES 121 & 122 - ELEVATIONS
SCALE: 3/8" = 1'-0"



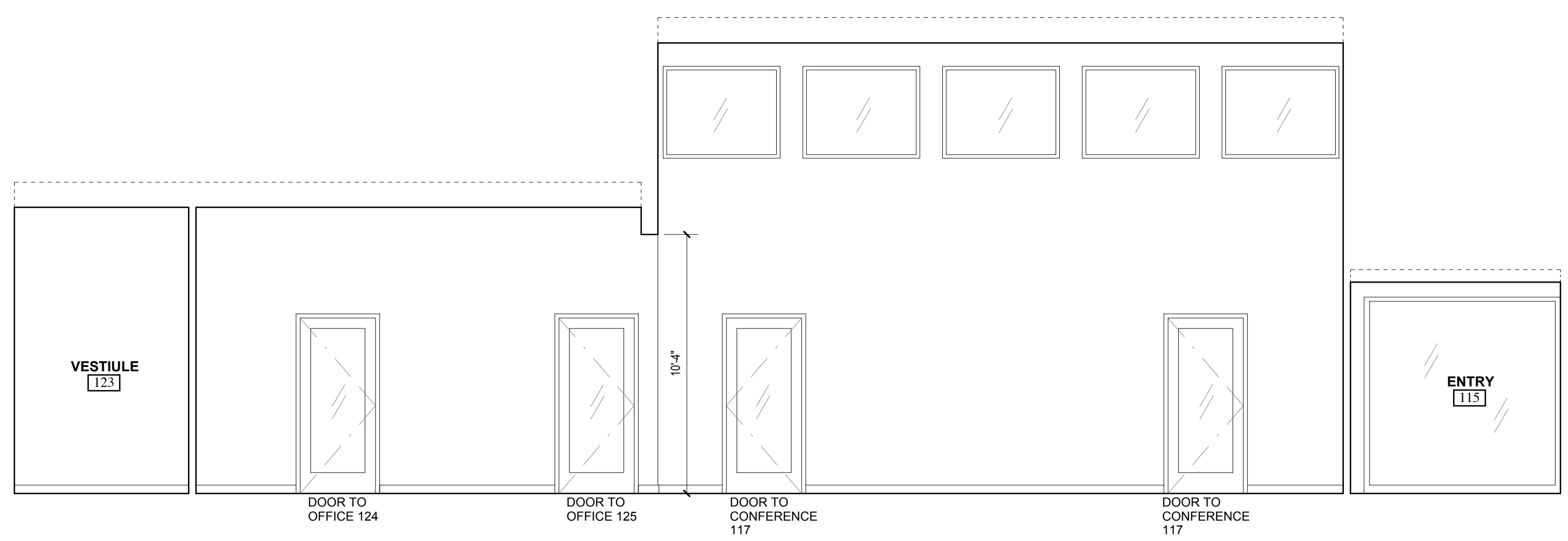
PROJ. MANAGER	CRAIG MORIN	DATE	3/25/11
DESIGN/DETAILED	ML	BY	
CHECKED/REVIEWED	SWW	SIGNATURE	
DESIGN/DETAILED		P.E. NUMBER	#793
REVISIONS 1		DATE	3/25/11
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
INTERIOR ELEVATIONS

PROJ. MANAGER	CRAIG MORIN	BY	DATE
DESIGN/DETAILED	MI		3/25/11
CHECKED/REVIEWED	SWW		
DESIGN/DETAILED2			
DESIGN/DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

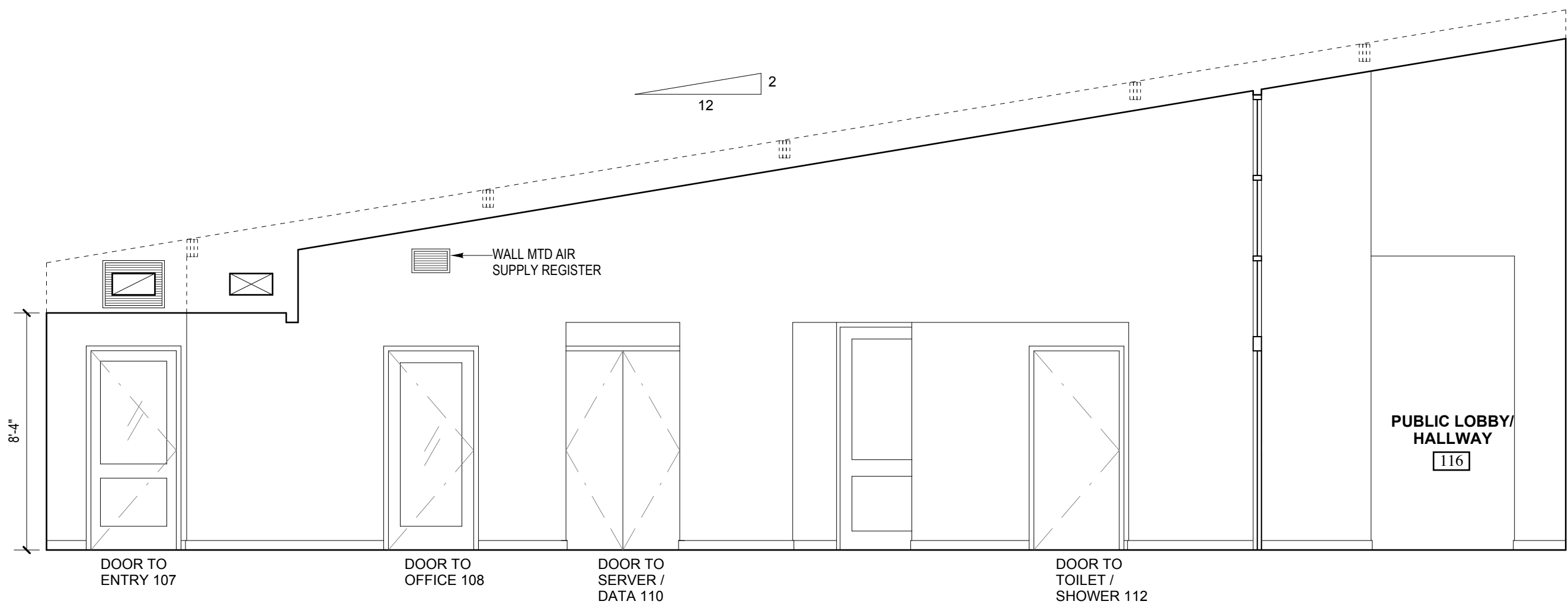


1 INTERIOR EAST ELEVATION OF HALLWAY 106
SCALE: 1/4" = 1'-0"

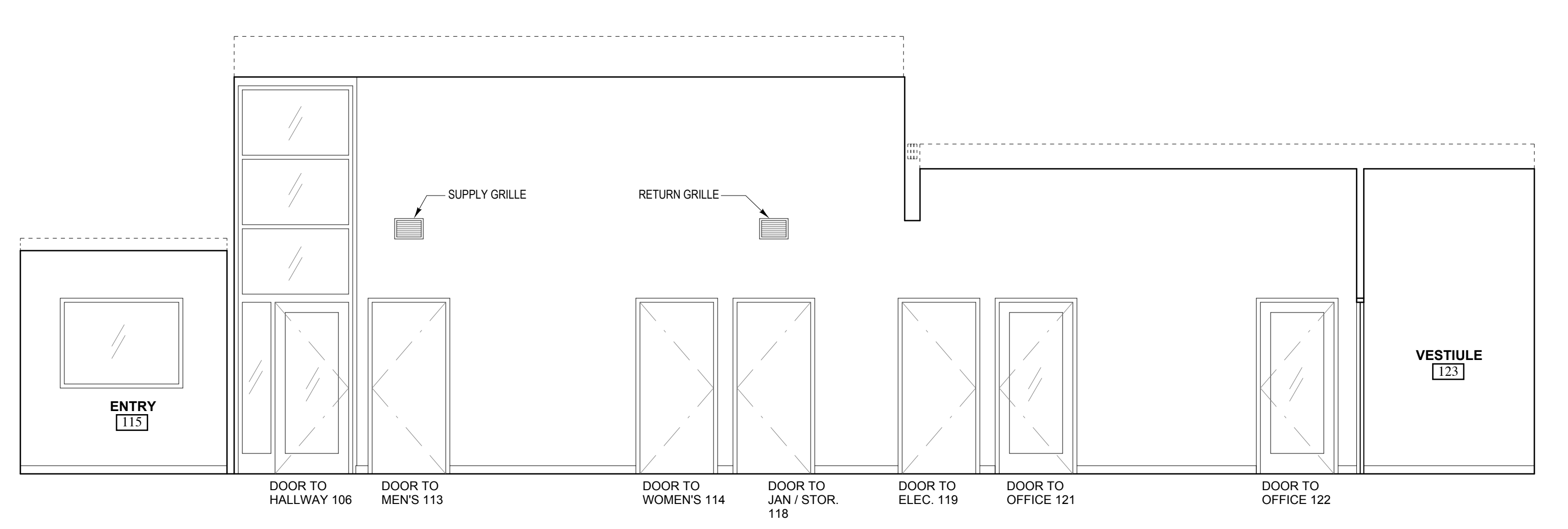


2 INTERIOR NORTH ELEVATION OF HALLWAY 116
SCALE: 1/4" = 1'-0"

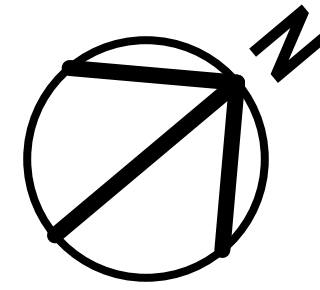
NOTE:
COORDINATE ELECTRICAL & VOICES OUTLET
LOCATIONS WITH ELECTRICAL DRAWINGS.



3 INTERIOR WEST ELEVATION OF HALLWAY 106
SCALE: 1/4" = 1'-0"



4 INTERIOR SOUTH ELEVATION OF HALLWAY 116
SCALE: 1/4" = 1'-0"



CEILING LEGEND

C1* Indicates ceiling type
8'-0" Indicates ceiling height from finish floor to underside of ceiling finish

Suspended acoustical ceiling tiles. Use moisture resistant tiles in 112.

Suspended wood ceiling, Woodworks Linear by Armstrong with Bioacoustic infill panels.

Painted GWB soffit. Use MR boards in 112.

CEILING TYPES

C1 2'x2' suspended acoustical ceiling tiles. Use moisture resistant tiles in 112.

C2 Suspended wood ceiling angled to follow roof slope.

C3 Suspended wood ceiling, horizontal.

C4 Ptd GWB soffit. Use MR boards in 112.

C5 Exposed sloping S.I.P.S painted.

LIGHT FIXTURES LEGEND

FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. LAYOUT IS NOT EXTENSIVE. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR MORE DETAILS.

RECESSED FLUORESCENT FIXTURE.

RECESSED FLUORESCENT FIXTURE.

RECESSED FLUORESCENT FIXTURE.

PENDANT FLUORESCENT FIXTURE.

RECESSED DOWNLIGHT FIXTURE.

RECESSED DOWNLIGHT FIXTURE.

PENDANT FIXTURE.

PENDANT FIXTURE.

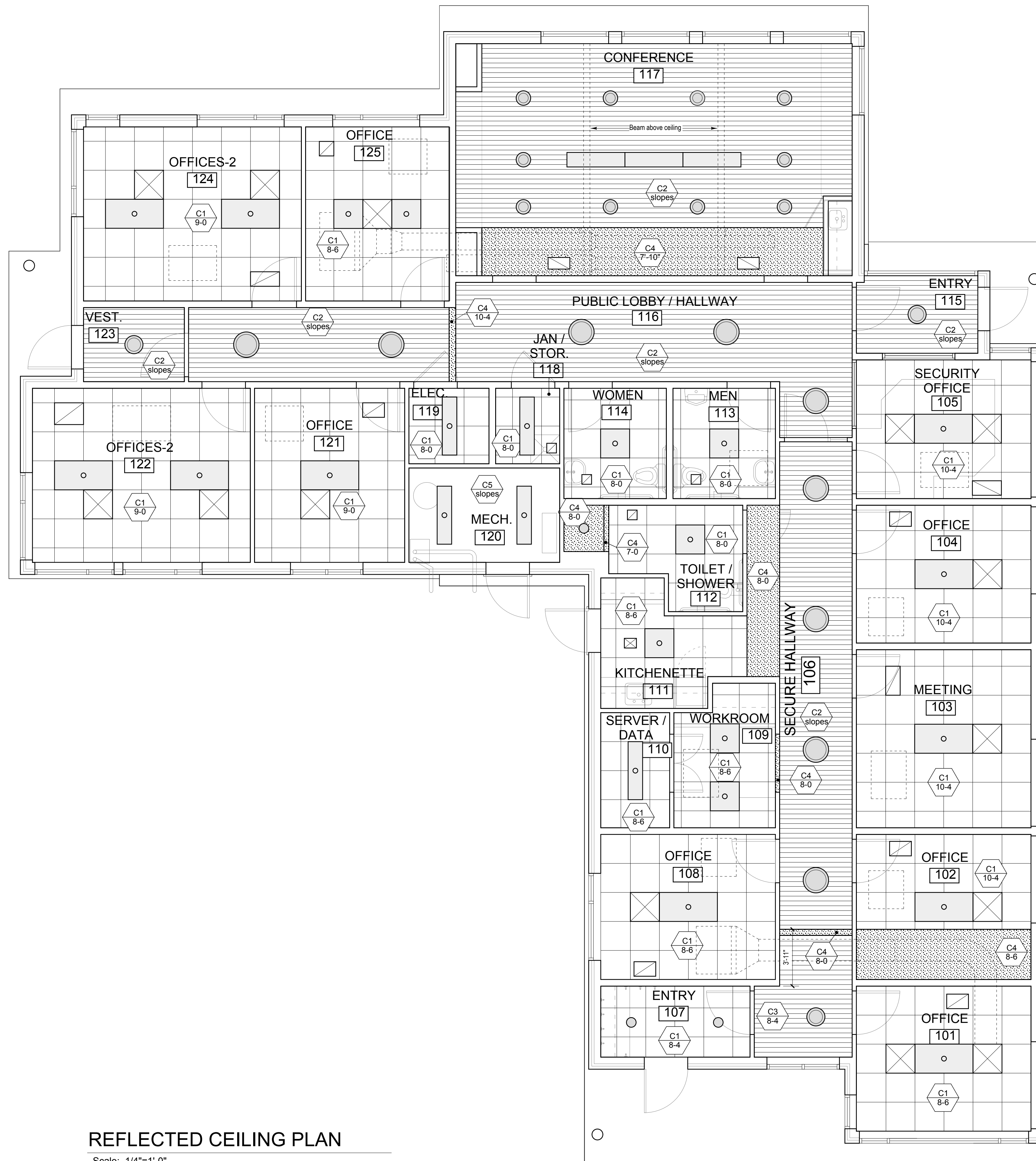
MECHANICAL LEGEND

EQUIPMENT IS SHOWN FOR COORDINATION PURPOSES ONLY. LAYOUT IS NOT EXTENSIVE. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR MORE DETAILS.

AIR SUPPLY GRILLE OR EXHAUST REGISTER. SEE MECH.

AIR RETURN GRILLE OR EXHAUST REGISTER. SEE MECH.

AIR HANDLER ABOVE CEILING



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

Winton Scott Architects
100 State Street, Portland, ME 04101
Tel: 603.771.1111

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 01782.00
PIN
017820.00



PROJ. MANAGER	PAUL POTTLE	DATE	3/25/11
DESIGN-DETAILED	ML	BY	
CHECKED-REVIEWED	SWW	DATE	
DESIGN-DETAILED		DATE	
REVISIONS 1		DATE	3/25/11
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
FIELD CHANGES		DATE	

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND CUMBERLAND COUNTY
REFLECTED CEILING PLAN

SHEET NUMBER
A.A14
56 OF 71

GENERAL NOTES

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER. SUBMIT ONE COPY AND ONE SEPIA. COPY WILL BE REVIEWED AND SEPIA WILL BE RETURNED. FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, REFERENCE THE PROJECT SPECIFICATION.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2009 EDITION), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
- REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS

- BUILDING CODE:**
 MAINE UNIFORM BUILDING & ENERGY CODE
 INTERNATIONAL BUILDING CODE, 2009 EDITION
 ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- DESIGN FLOOR LIVE LOADS:**
 ALL INTERIOR SPACES 100 PSF
- DESIGN ROOF SNOW LOAD:**
 GROUND SNOW LOAD (Pg): 60 PSF
 SNOW EXPOSURE FACTOR (Ce): 1.0
 SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
 SNOW LOAD THERMAL FACTOR (Ct): 1.1
 FLAT ROOF SNOW LOAD (Pt): 46.2 PSF + DRIFT
- DESIGN WIND LOAD:**
 BASIC WIND SPEED: 100 MPH
 WIND LOAD IMPORTANCE FACTOR (Iw): 1.0
 WIND EXPOSURE: C
 INTERNAL PRESSURE COEFFICIENT: ±0.18
 COMPONENTS & CLADDING PER ASCE 7-05
- DESIGN SEISMIC LOADS:**
 EQUIVALENT LATERAL FORCE PROCEDURE
 SEISMIC OCCUPANCY CATEGORY: II
 SEISMIC IMPORTANCE FACTOR (Is): 1.0
 MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 Ss: 0.314
 S1: 0.077
 SEISMIC SITE CLASS: D
 SPECTRAL RESPONSE COEFFICIENTS:
 Sds: 0.324
 Sd1: 0.123
 SEISMIC DESIGN CATEGORY: B
 BASIC STRUCTURAL SYSTEM: BEARING WALL SYSTEM
 BASIC SEISMIC FORCE RESISTING SYSTEM:
 LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
 RESPONSE MODIFICATION FACTOR (R): 6.5
 SEISMIC RESPONSE COEFFICIENT (Cs): X: 0.050

FOUNDATION NOTES (SOIL SUPPORTED)


- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH A MEMORANDUM ENTITLED "GEOTECHNICAL DESIGN MEMORANDUM, PROPOSED OFFICE BUILDING, PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS, PORTLAND, MAINE, PIN:17820", PREPARED BY HALEY & ALDRICH, INC., DATED 1/7/2011. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK.
- FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON A LAYER OF COMPACTED GRANULAR FILL OVER SUITABLE UNDISTURBED NATIVE SOILS PER THE REQUIREMENTS OF THE ABOVE NOTED MEMORANDUM.
- ALLOWABLE BEARING CAPACITY 500 PSF
- EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
- NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL UPGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- REFERENCE THE SECTION 31 20 00 FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
- SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHOULD BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
- EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

CONCRETE NOTES

- CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
- ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. U.N.O. EXTERIOR SLAB-ON-GRADE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE, OR SLABS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 A.SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"
 B.FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
 #5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
 #6 THROUGH #11 BARS, 2.0"
- REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES PER THE SCHEDULE D RAWING S4, FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
- WELDING OF REINFORCEMENT IS NOT PERMITTED
- FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- CONSTRUCTION JOINTS ARE SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/ GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:
 A.FOOTINGS AND WALLS
 MAX LENGTH 40'-0" NOR 15'-0" FROM ANY CORNER**
 B.SLABS ON GRADE
 SEE FOUNDATION PLAN
 ** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED. MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.
- ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL. UNLESS NOTED OTHERWISE ON DRAWINGS, ANCHOR RODS T THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
- SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, AND SHELF BULK HEADS.

TIMBER NOTES

- ALL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH THE AITC TIMBER CONSTRUCTION MANUAL- LATEST EDITION, AND THE AF & PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) LATEST EDITION.
- INDIVIDUAL TIMBER FRAMING MEMBERS SHALL BE VISUALLY GRADED. MINIMUM GRADE NO1/NO2 SPRUCE-PINE-FIR KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- ENGINEERED WOOD PRODUCTS SHALL BE AS SPECIFIED ON THE DRAWINGS. REFER TO MANUFACTURER'S LITERATURE FOR PROPER HANDLING AND INSTALLATION GUIDELINES. MANUFACTURER AND PRODUCT SHALL BE:
 I-LEVEL: MICROLAM (LVL),
 BOISE: VERSALAM (LVL)
- PRESSURE TREATED LUMBER SHALL BE USED FOR SILL MEMBERS, EXTERIOR EXPOSURE, OR WHERE SHOWN ON THE DRAWINGS. TIMBER SHALL BE SOUTHERN YELLOW PINE TREATED WITH CCA OR ACQ TO 0.4 #/CF IN ACCORDANCE WITH AWWA C-18. ACZA IS STRICTLY PROHIBITED.
- ALL WALL SHEATHING SHALL BE APA PERFORMANCE-RATED. SHEATHING SHALL BE NAILED TO THE FRAMING AS FOLLOWS. U.N.O. AT SHEARWALLS: 8d NAILS AT 6" O.C. AT SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
- ROOF STRUCTURAL INSULATED PANELS (SIPS) SHALL BE 6 1/2" WITH INSULATED I-BEAM SPLINE AS MANUFACTURED BY R-CONTROL (OR PRE-APPROVED EQUIVALENT), SCREW FASTENED PER MANUFACTURER'S RECOMMENDATIONS. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- ALL BUILT-UP BEAMS AND COLUMNS SHALL BE NAILED AS FOLLOWS (FASTENING IN EACH PLY):
UNIFORMLY LOADED BEAMS:
 BEAM DEPTH <16" - 2 ROWS OF 16d NAILS AT 12" O.C., STAGGERED
 BEAM DEPTH >=16" - 3 ROWS OF 16d NAILS AT 12" O.C. STAGGERED
 NOTE: SIDE LOADED BEAMS REQUIRE ADDITIONAL FASTENING. SEE DETAILS.
COLUMNS:
 2-10d NAILS AT 6" O.C.
- FASTENING NOT SPECIFIED SHALL CONFORM WITH IBC TABLE 2304.9.1. NAIL FASTENERS SHALL MEET THE REQUIREMENTS OF ASTM F1667. UNLESS NOTED OTHERWISE, NAILS REFERENCED ON DRAWINGS ARE TO BE COMMON NAILS WITH DIMENSIONS AS FOLLOWS:
 8d: 2" LONG BY 0.113" DIAMETER SHANK WITH 0.266" DIAMETER HEAD
 8d: 2 1/4" LONG BY 0.131" DIAMETER SHANK WITH 0.281" DIAMETER HEAD
 10d: 3" LONG BY 0.148" DIAMETER SHANK WITH 0.312" DIAMETER HEAD
 12d: 3 1/4" LONG BY 0.148" DIAMETER SHANK WITH 0.312" DIAMETER HEAD
 16d: 3 1/2" LONG BY 0.162" DIAMETER SHANK WITH 0.344" DIAMETER HEAD
 20d: 4" LONG BY 0.192" DIAMETER SHANK WITH 0.406" DIAMETER HEAD
 30d: 4 1/2" LONG BY 0.207" DIAMETER SHANK WITH 0.438" DIAMETER HEAD
- ALL TIMBER CONNECTION HARDWARE (JOIST HANGERS, POST BASES, SHEARWALL HOLDOWNS, ETC) SHALL BE AS INDICATED ON THE DRAWINGS AND MANUFACTURED BY SIMPSON STRONG-TIE. ALL CONNECTION HARDWARE SHALL BE HOT-DIPPED GALVANIZED G-90 (U.N.O.). CONNECTION HARDWARE USED IN CONJUNCTION WITH PRESERVATIVE TREATMENT SHALL BE GALVANIZED G185 (ZMAX) USE FASTENERS AND HANGERS OF SAME MATERIAL & COATING. REFER TO MANUFACTURER'S LITERATURE FOR PROPER HANDLING AND INSTALLATION GUIDELINES.
- FASTENERS USED IN CONJUNCTION WITH PT LUMBER, BUT NOT AT TIMBER CONNECTION HARDWARE REFERENCED IN NOTE ABOVE, SHALL BE POST HOT-DIPPED GALVANIZED (ASTM A153).

STATE OF MAINE DEPARTMENT OF TRANSPORTATION PROJECT NUMBER 017820.00	PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS PORTLAND CUMBERLAND COUNTY	GENERAL NOTES
 SIGNATURE: <i>Craig R. Morin</i> P.E. NUMBER: ME 6554 DATE: 3.25.2011	PRCL. MANAGER: CRAIG R. MORIN DESIGNED/Detailed: [] CHECKED/Reviewed: [] DESIGNED/Details: [] REVISIONS 1: [] REVISIONS 2: [] REVISIONS 3: [] REVISIONS 4: [] FIELD CHANGES: []	DATE: 3/25/11 BY: EAR APP: [] DATE: 3/25/11
SHEET NUMBER	A.S1	97 OF 71

PORTLAND INTERNATIONAL MARINE TERMINAL IMPROVEMENTS
 CUMBERLAND COUNTY
 FOUNDATION PLAN

DATE: 3/25/11
 BY: APP: EAR
 CHECKED: DSB
 DESIGNED: DSB

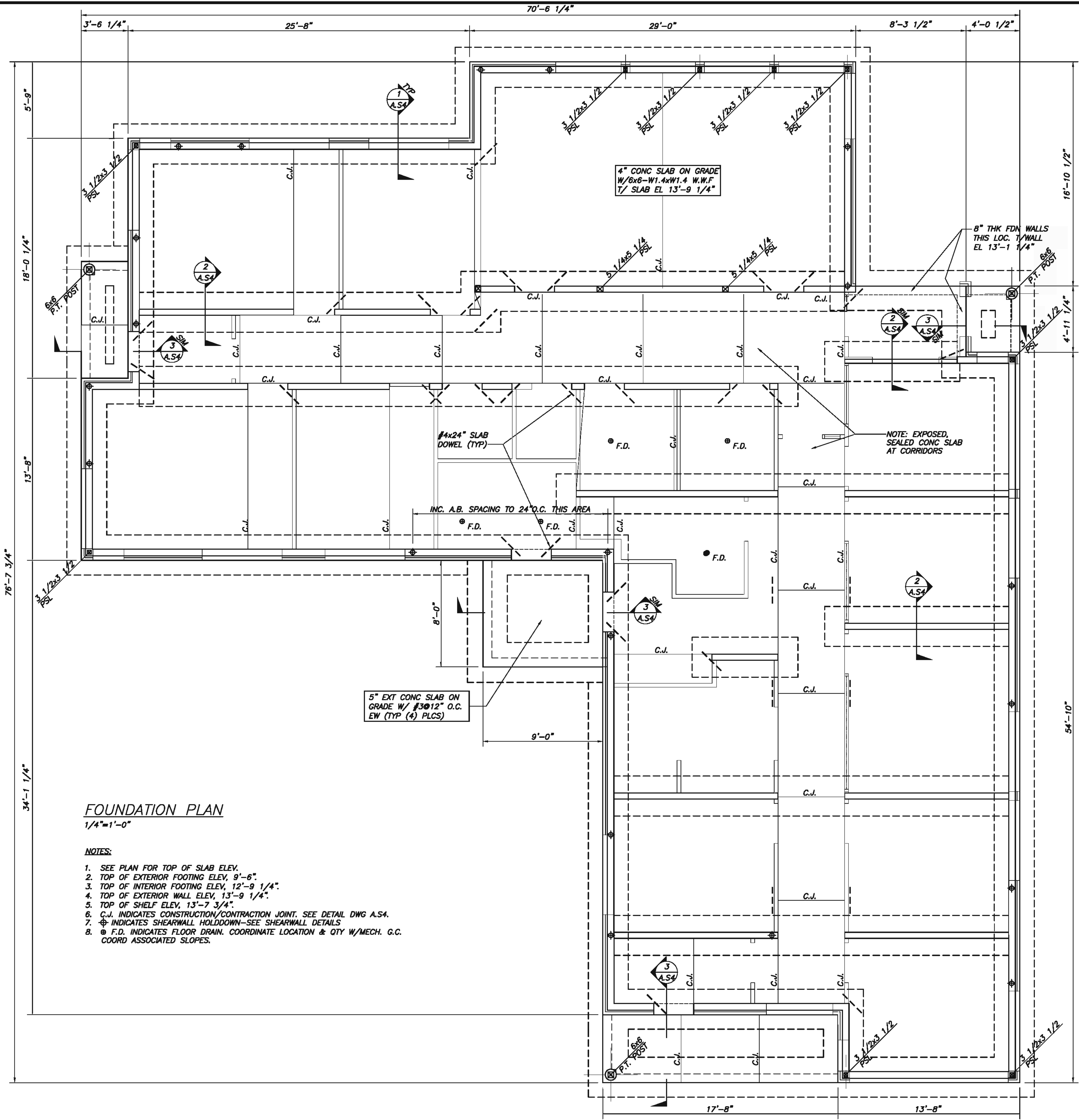
PROJECT MANAGER: GRAY R. MORIN
 DESIGNED: DSB
 CHECKED: DSB
 DESIGNED: DSB

REVISIONS 1
 REVISIONS 2
 REVISIONS 3
 REVISIONS 4
 FIELD CHANGES

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN
 17820.00

ME 6554
 P.E. NUMBER
 3.25.2011
 DATE

ME 6554
 P.E. NUMBER
 3.25.2011
 DATE



FOUNDATION PLAN
 1/4"=1'-0"

- NOTES:**
- SEE PLAN FOR TOP OF SLAB ELEV.
 - TOP OF EXTERIOR FOOTING ELEV. 9'-6".
 - TOP OF INTERIOR FOOTING ELEV. 12'-9 1/4".
 - TOP OF EXTERIOR WALL ELEV. 13'-9 1/4".
 - TOP OF SHELF ELEV. 13'-7 3/4".
 - C.J. INDICATES CONSTRUCTION/CONTRACTION JOINT. SEE DETAIL DWG A.S.4.
 - ⊕ INDICATES SHEARWALL HOLDDOWN—SEE SHEARWALL DETAILS
 - ⊙ F.D. INDICATES FLOOR DRAIN. COORDINATE LOCATION & QTY W/MECH. G.C. COORD ASSOCIATED SLOPES.

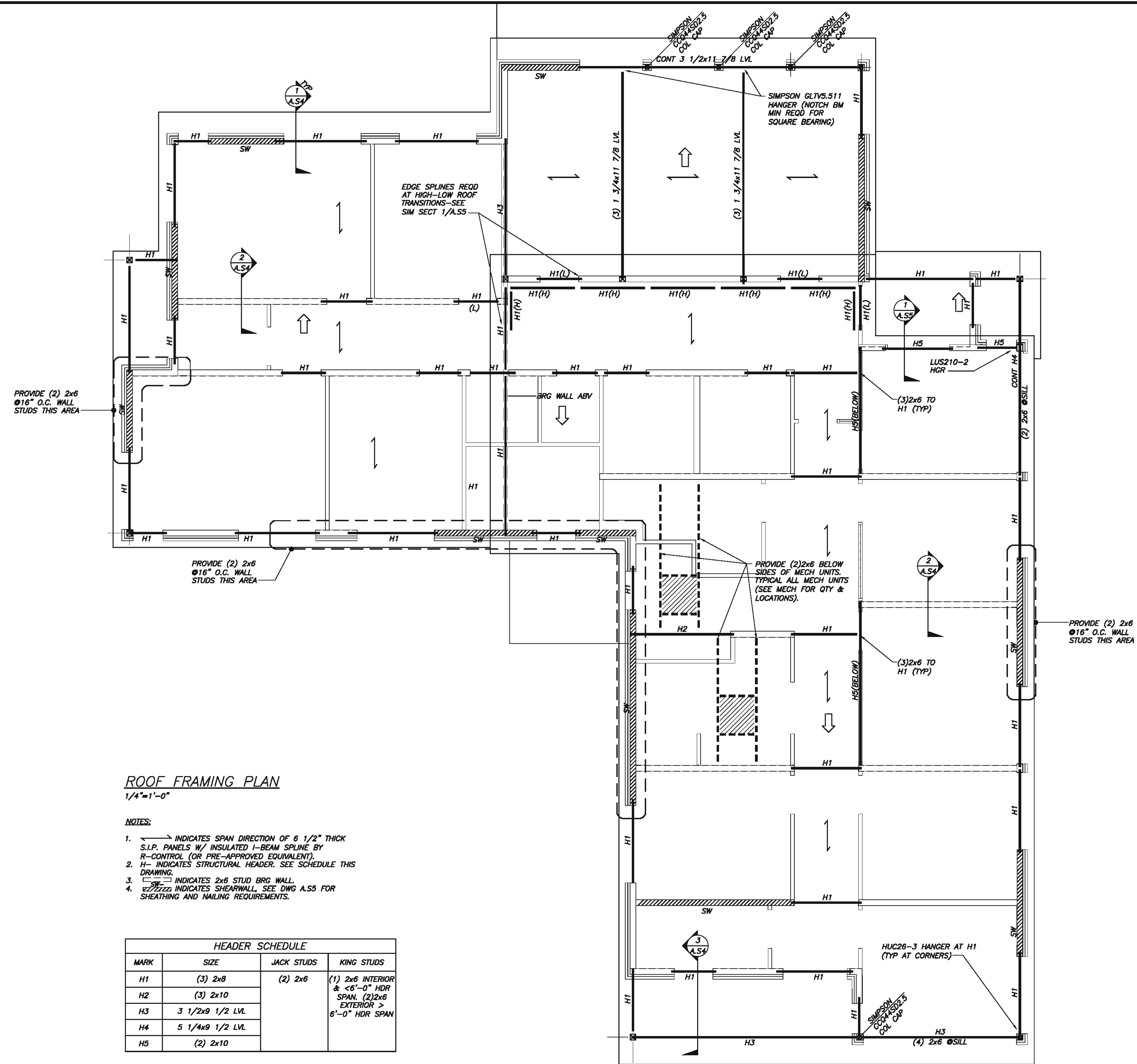
PROFESSIONAL SEAL
 STATE OF MAINE
 PORTLAND
 PAUL A. MORIN
 NO. 134
 LICENSED PROFESSIONAL ENGINEER
 SIGNATURE: *Paul A. Morin*
 ME 6554
 P.E. NUMBER
 3.25.20
 DATE

DATE	3/25/11
BY	APP EAR
DESIGNED-Detailed	DSB
CHECKED-Reviewed	DSB
DESIGNED-Detailed	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
ROOF FRAMING PLAN

SHEET NUMBER

A.S3

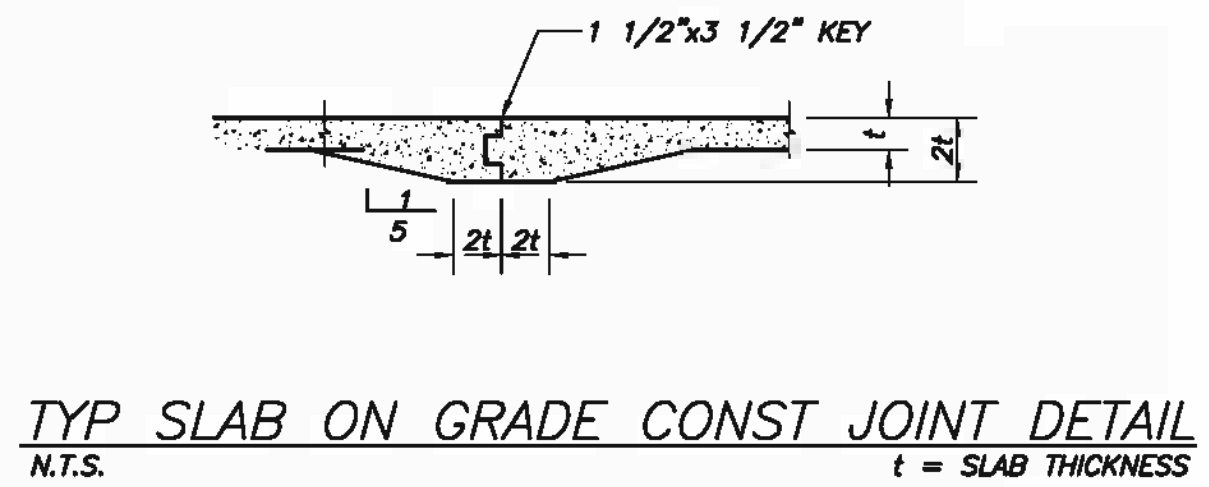
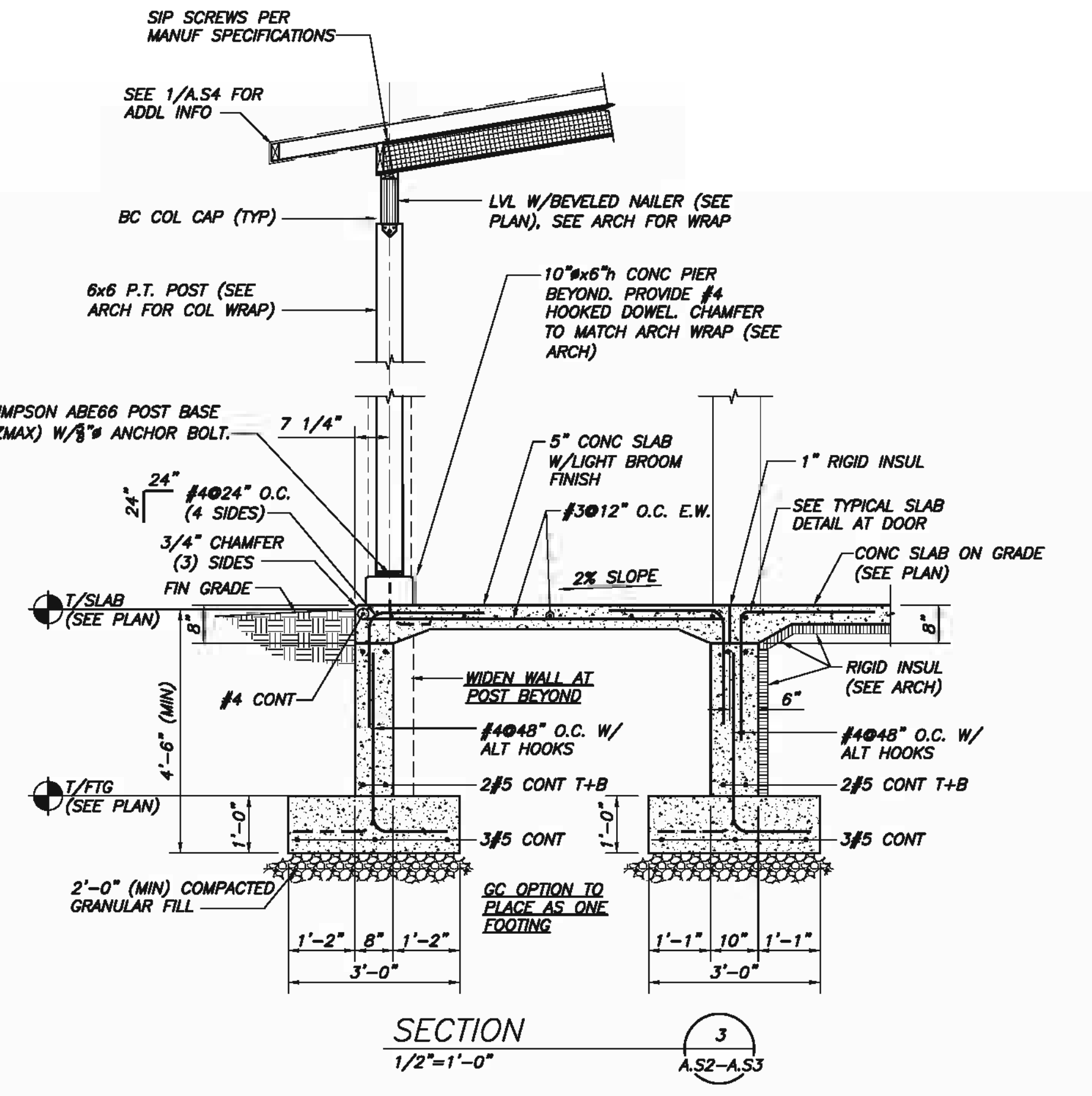
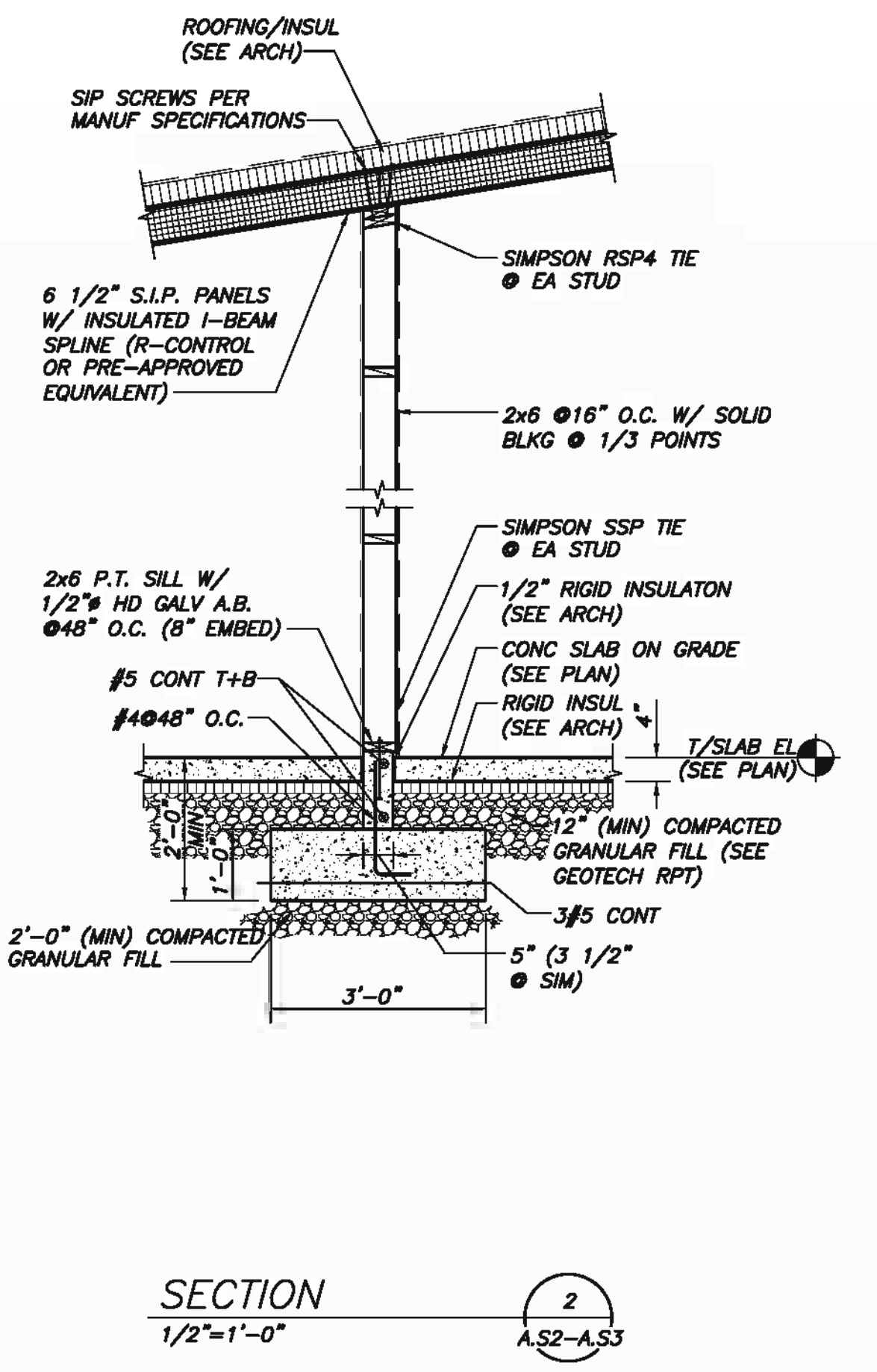
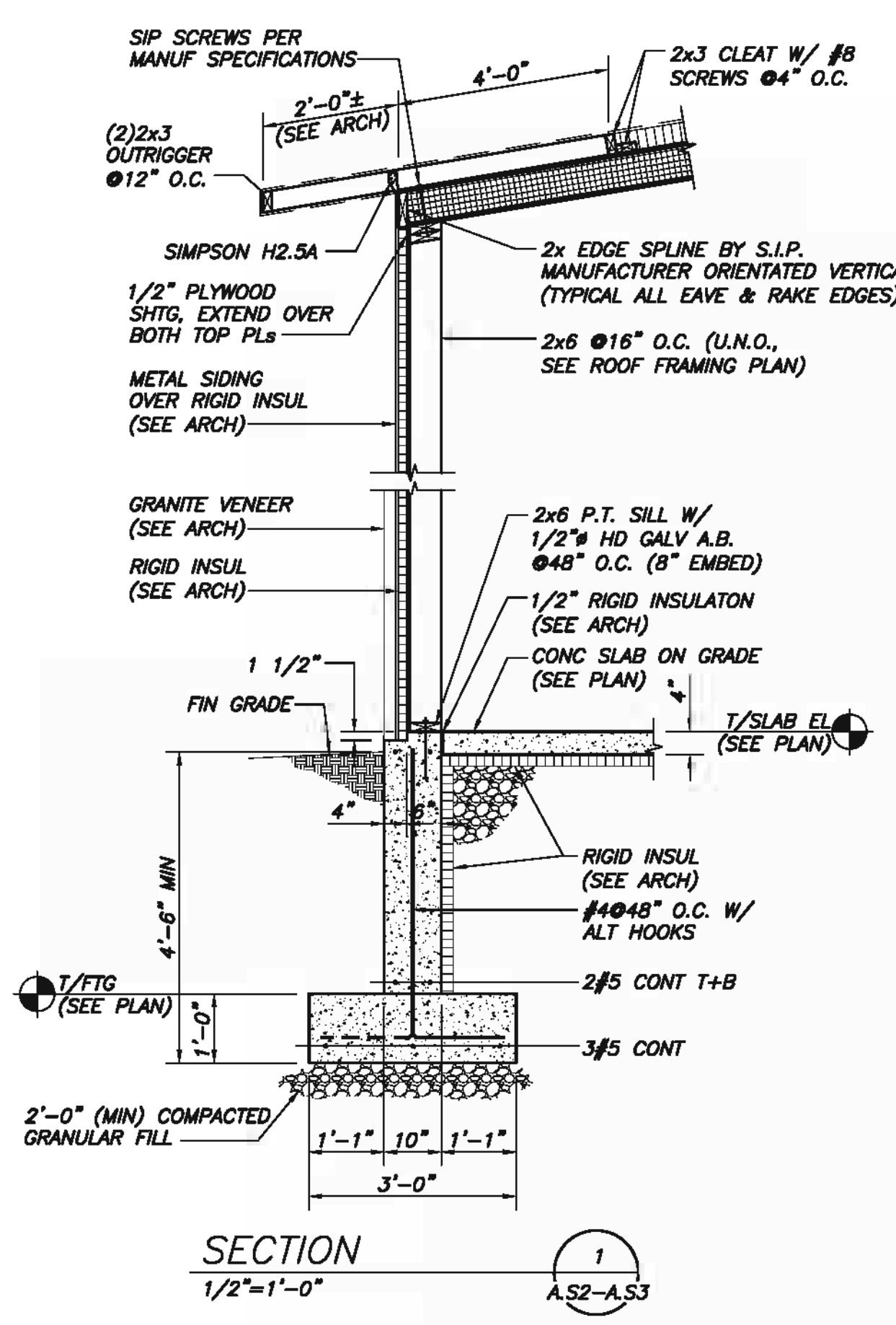


ROOF FRAMING PLAN
 1/4"=1'-0"

- NOTES:**
- ← → INDICATES SPAN DIRECTION OF 6 1/2" THICK S.I.P. PANELS W/ INSULATED I-BEAM SPLINE BY R-CONTROL (OR PRE-APPROVED EQUIVALENT).
 - H- INDICATES STRUCTURAL HEADER. SEE SCHEDULE THIS DRAWING.
 - INDICATES 2x6 STUD BRG WALL.
 - ▨▨▨▨▨▨ INDICATES SHEARWALL, SEE DWG A.S5 FOR SHEATHING AND NAILING REQUIREMENTS.

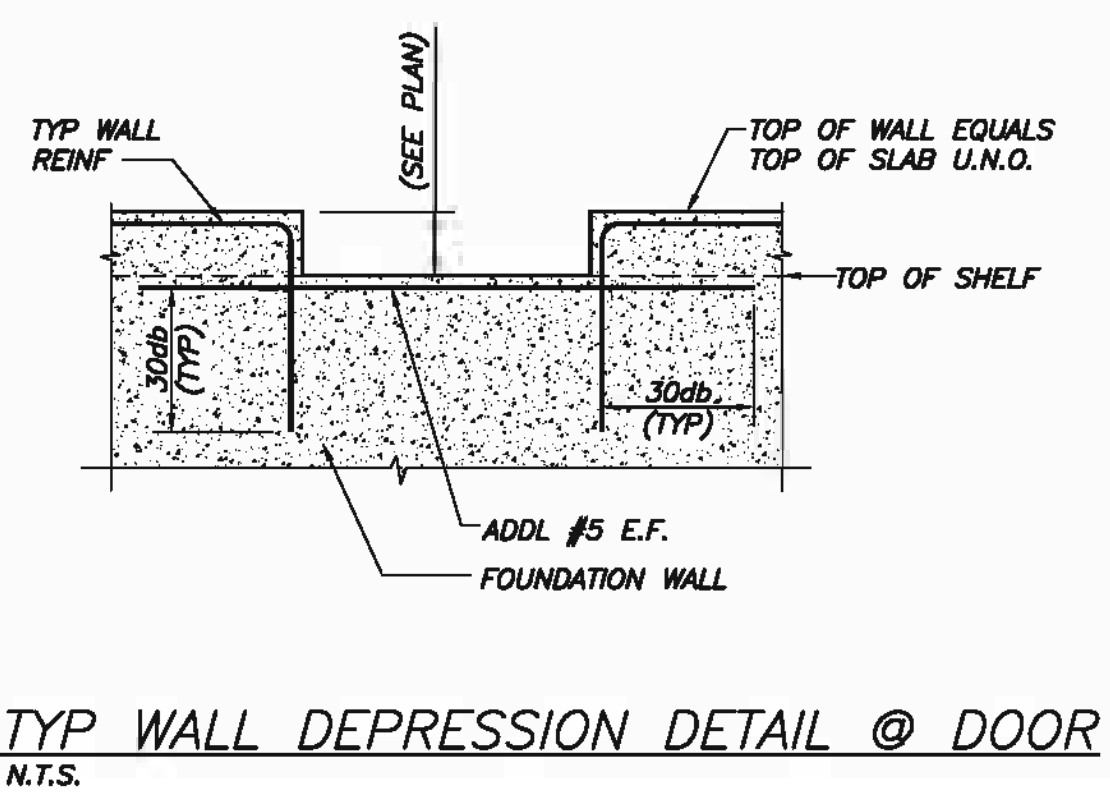
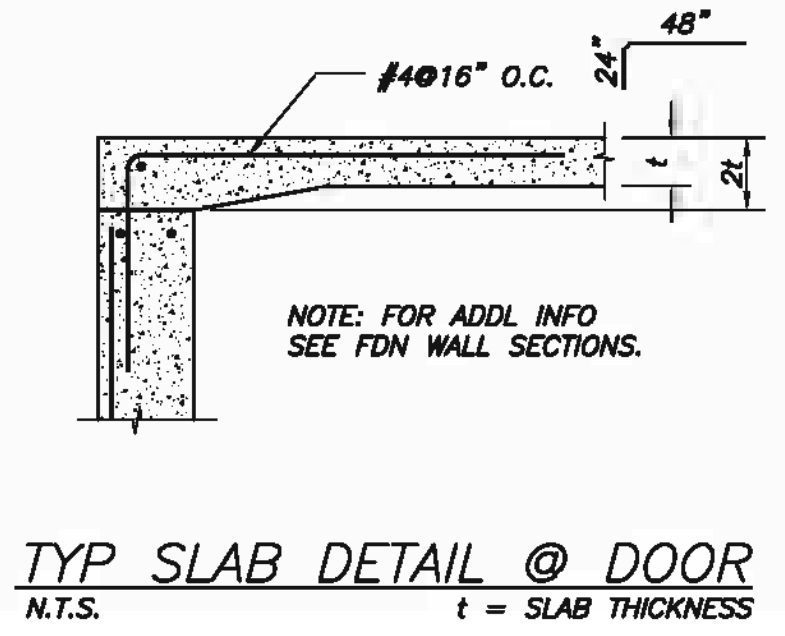
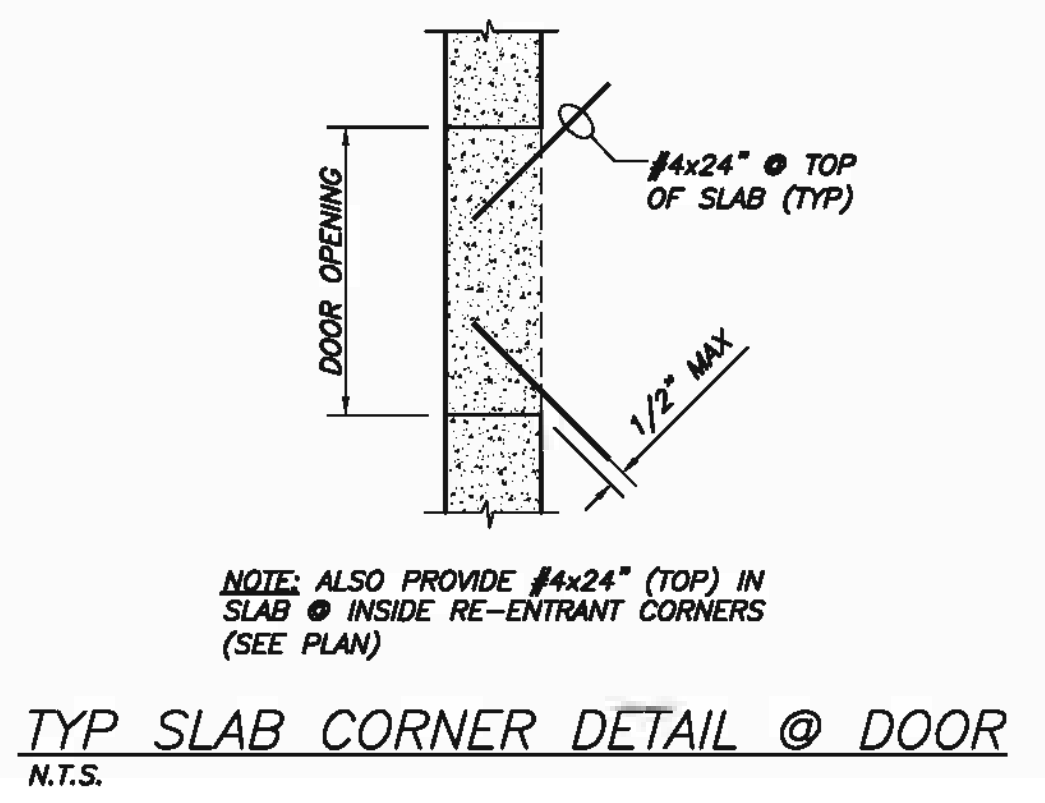
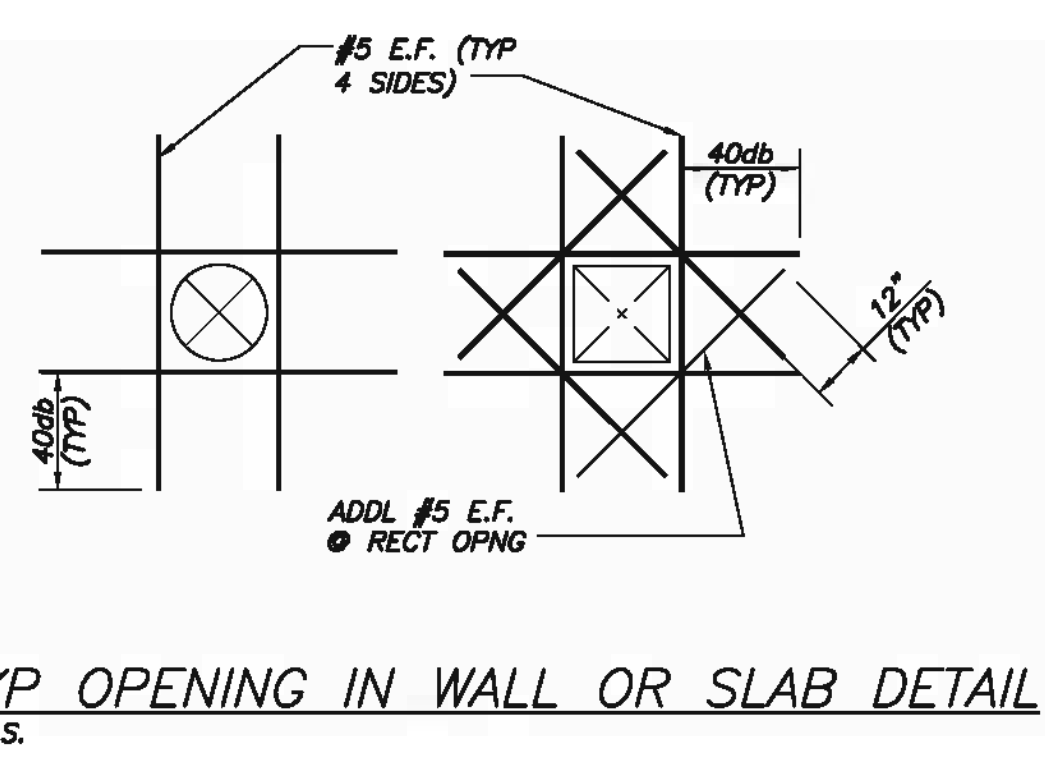
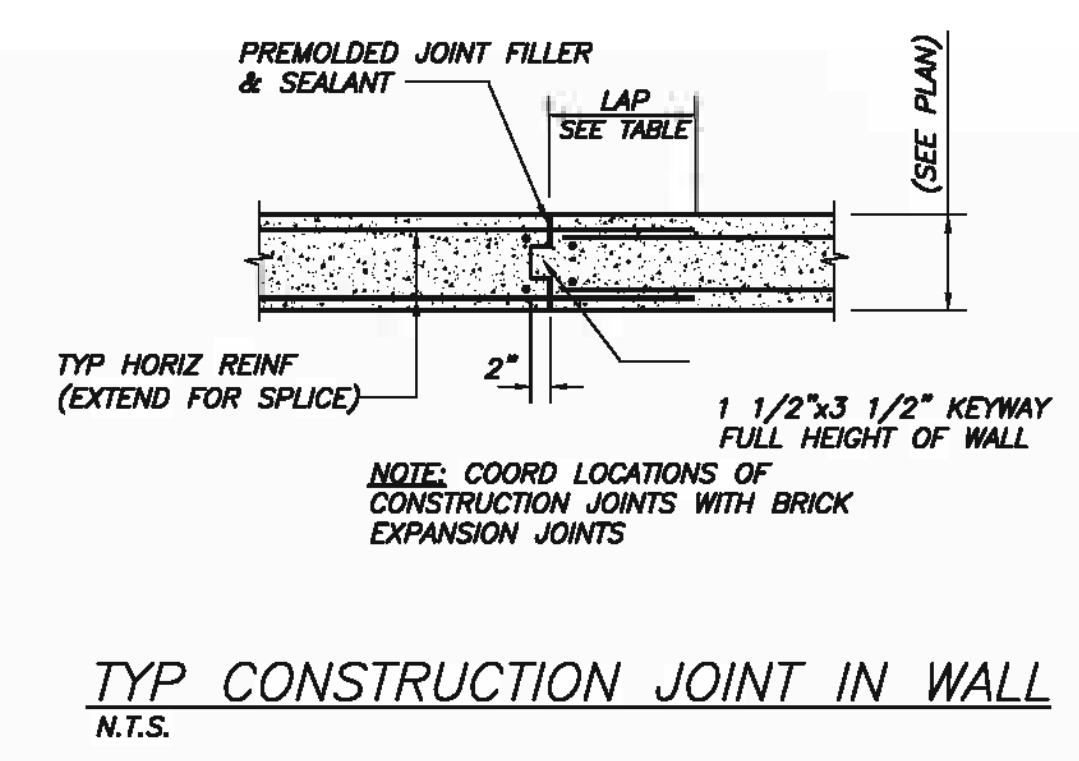
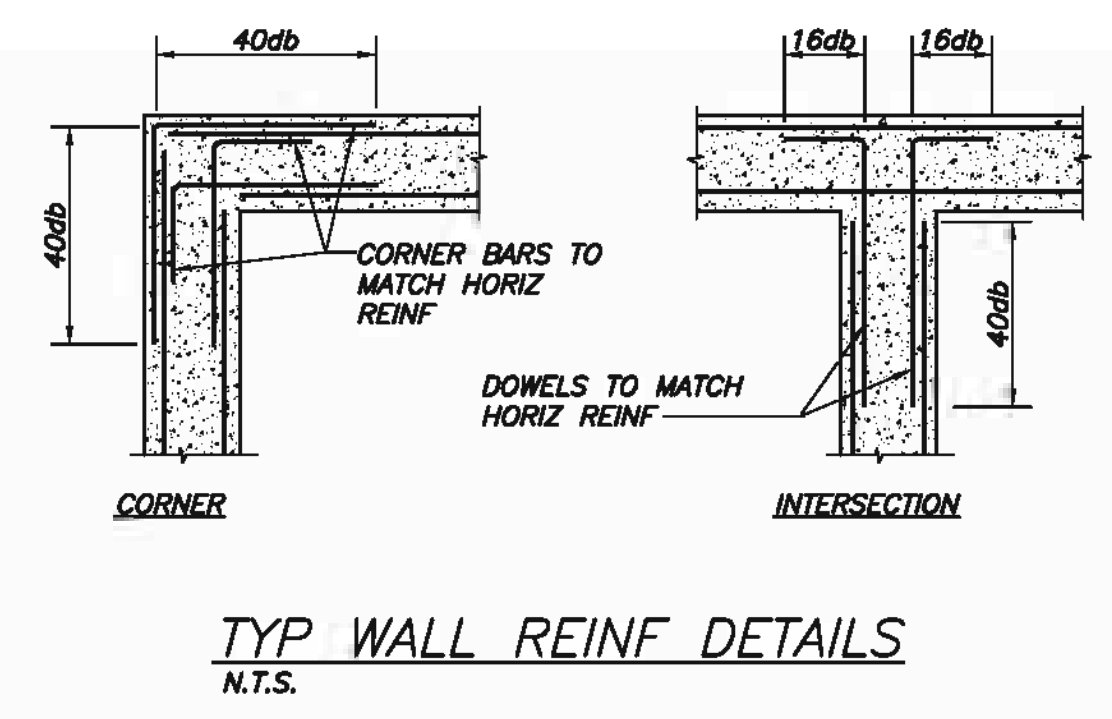
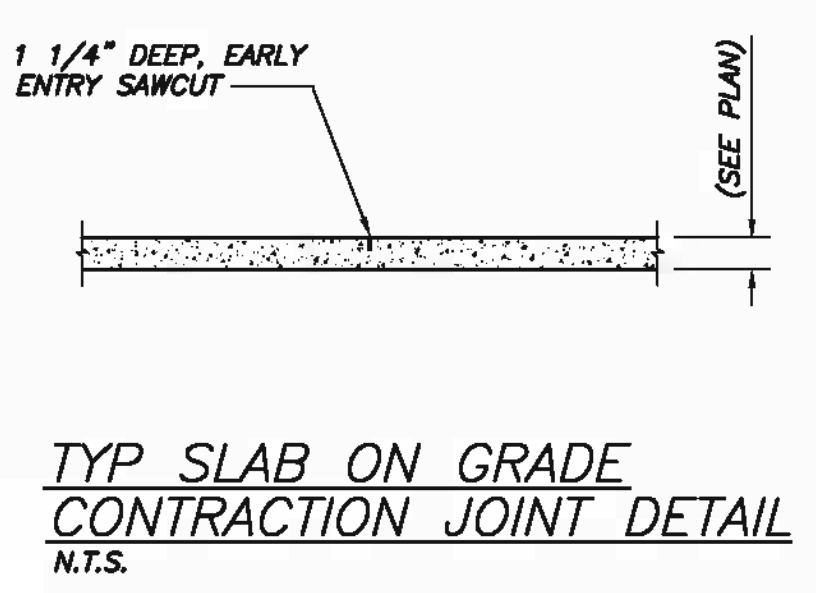
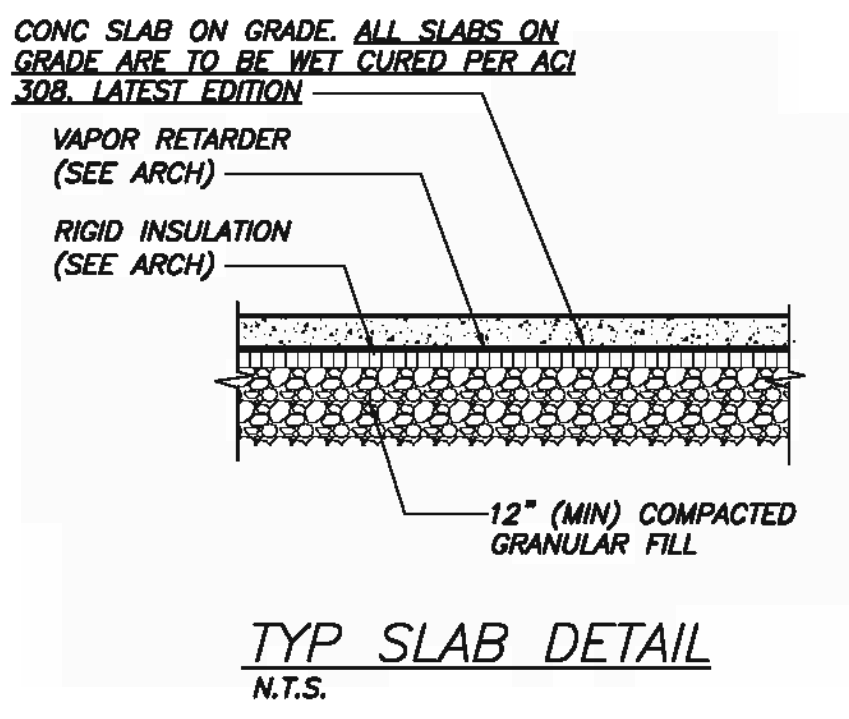
HEADER SCHEDULE			
MARK	SIZE	JACK STUDS	KING STUDS
H1	(3) 2x8	(2) 2x6	(1) 2x6 INTERIOR & <6'-0" HDR SPAN. (2)2x6 EXTERIOR > 6'-0" HDR SPAN
H2	(3) 2x10		
H3	3 1/2x9 1/2 LVL		
H4	5 1/4x9 1/2 LVL		
H5	(2) 2x10		

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 17820.00
 DATE 3.25.2011

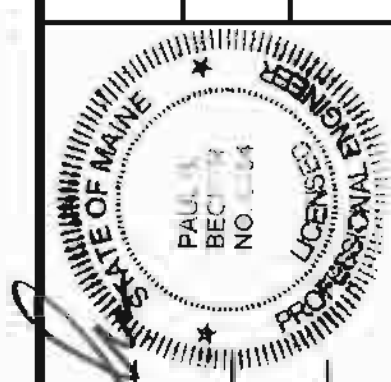


REBAR LAP SPLICE TABLE

BAR SIZE	LAP LENGTH	
	3,000 PS1	4,000 PS1
#3	30"	24"
#4	36"	32"
#5	48"	42"



PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 CUMBERLAND COUNTY
 PORTLAND
 SECTIONS AND DETAILS I



ME 6554
P.E. NUMBER
3.25.2011
DATE

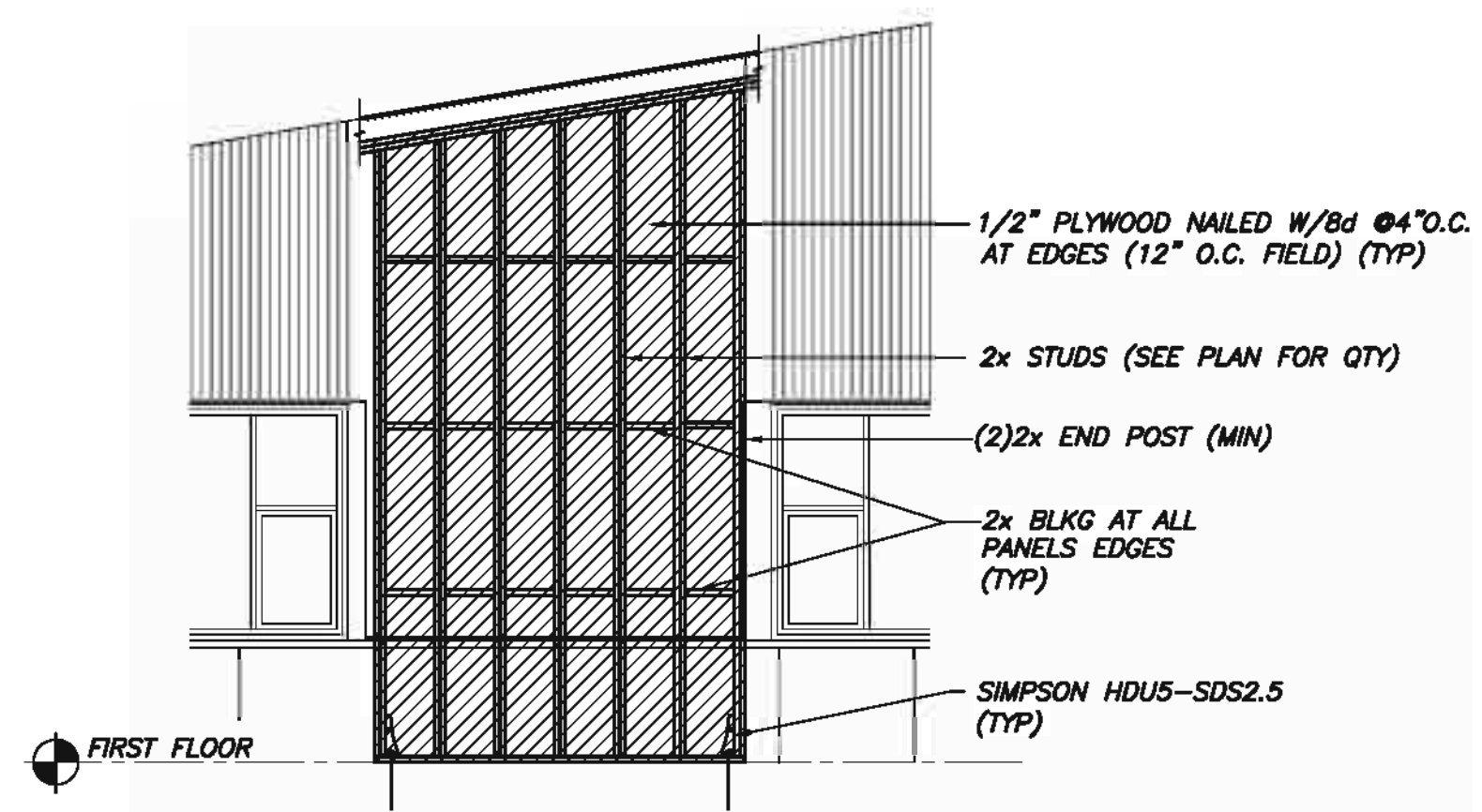
DATE	BY	APP	DESIGNED	CHECKED	DESIGNED	REVISIONS	REVISIONS	REVISIONS	FIELD CHANGES
3/25/11	EAR	EAR				1	2	3	4

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
SECTIONS AND DETAILS II

SHEET NUMBER

A.S5

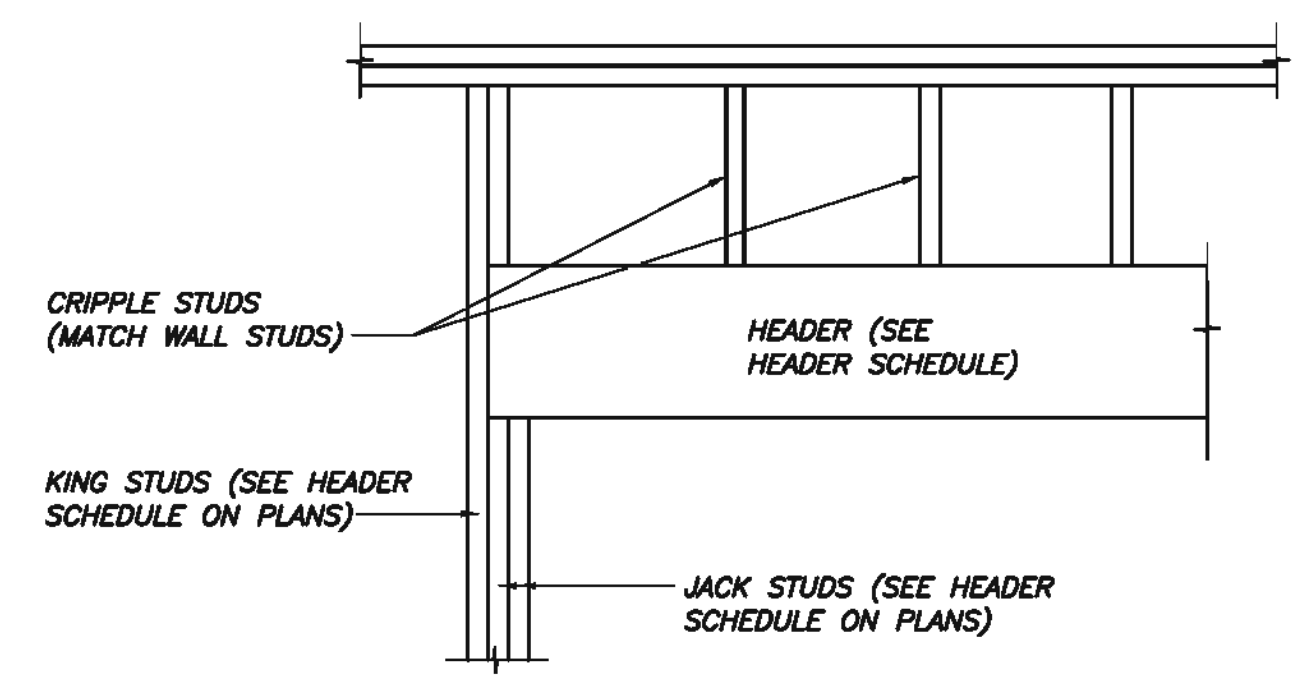
61 OF 71



SCHEMATIC PARTIAL SHEARWALL ELEVATION
1/4"=1'-0"

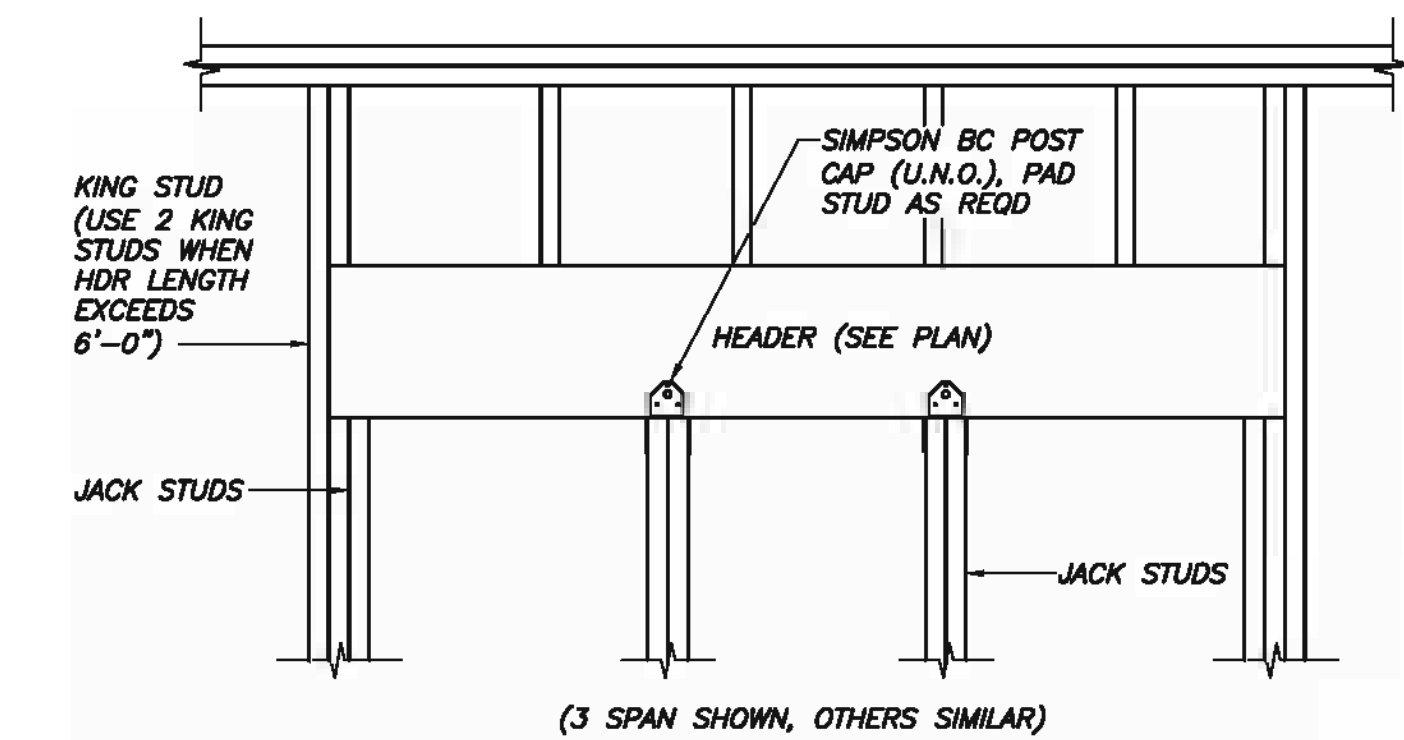
WOOD STUD SHEARWALL NOTES:

- PLYWOOD SHEAR PANELS SHALL BE SINGLE SIDED MINIMUM 1/2" APA RATED SHEATHING PANELS
- PLYWOOD TO BE PLACED WITH FACE GRAIN PERPENDICULAR TO STUDS.
- USE 4'-0"x8'-0" PLYWOOD SHEETS WHERE POSSIBLE.
- MINIMUM WIDTH OF PLYWOOD SHEET IS 2'-0".
- SHEARWALL ELEVATIONS ARE INTENDED TO DETAIL SHEARWALL ELEMENTS ONLY. FRAMING SHOWN MAY NOT REFLECT ALL BUILDING COMPONENTS AT THE SHEARWALL AREA.
- COORDINATE SHEARWALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- HOLES ARE ALLOWED IN PLYWOOD SHEARWALLS AS SHOWN ON THE DRAWINGS (SEE ARCHITECTURAL DRAWINGS).
- PROVIDE "2x" BLOCKING (SEE ELEVATIONS) AS NAILING SURFACE AT UNSUPPORTED PANEL EDGES. BLOCK ALL PANEL EDGES.
- 3/8" MINIMUM EDGE DISTANCE AT ANY NAILED CONNECTION.
- SHEARWALL HOLD DOWNS SHALL BE AS SPECIFIED, MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. SHEARWALL HOLD DOWN ANCHORS SHALL BE "EPOXY-TIE" ADHESIVE ANCHORS BY SIMPSON STRONG-TIE COMPANY, INC. THREADED ROD SHALL BE ASTM 1554 (MIN) OF SIZE AND EMBEDMENT AS SPECIFIED. MINIMUM CONCRETE EDGE DISTANCE SHALL BE 2 3/4" FROM CENTERLINE OF BOLT..

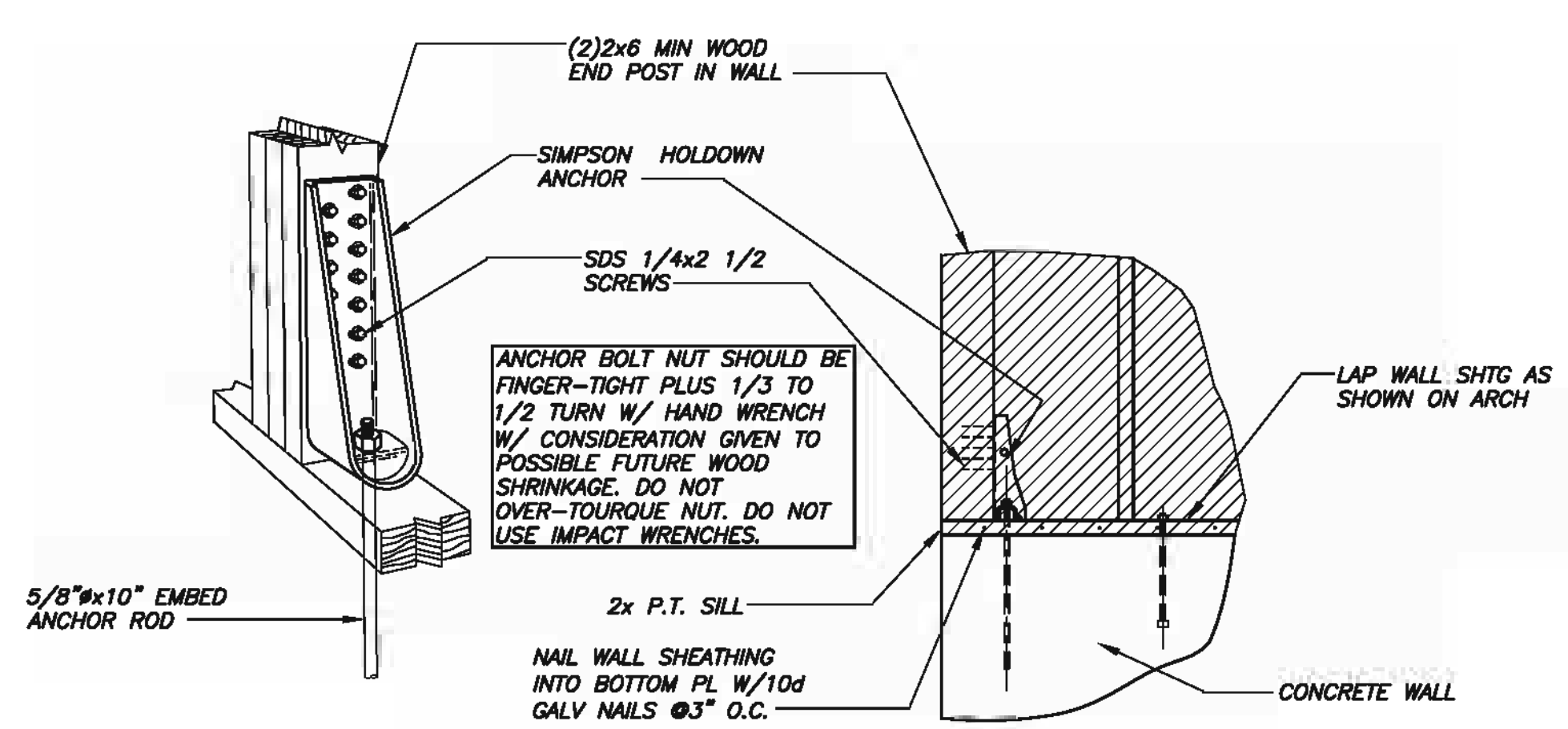


TYP HEADER DETAIL
N.T.S.

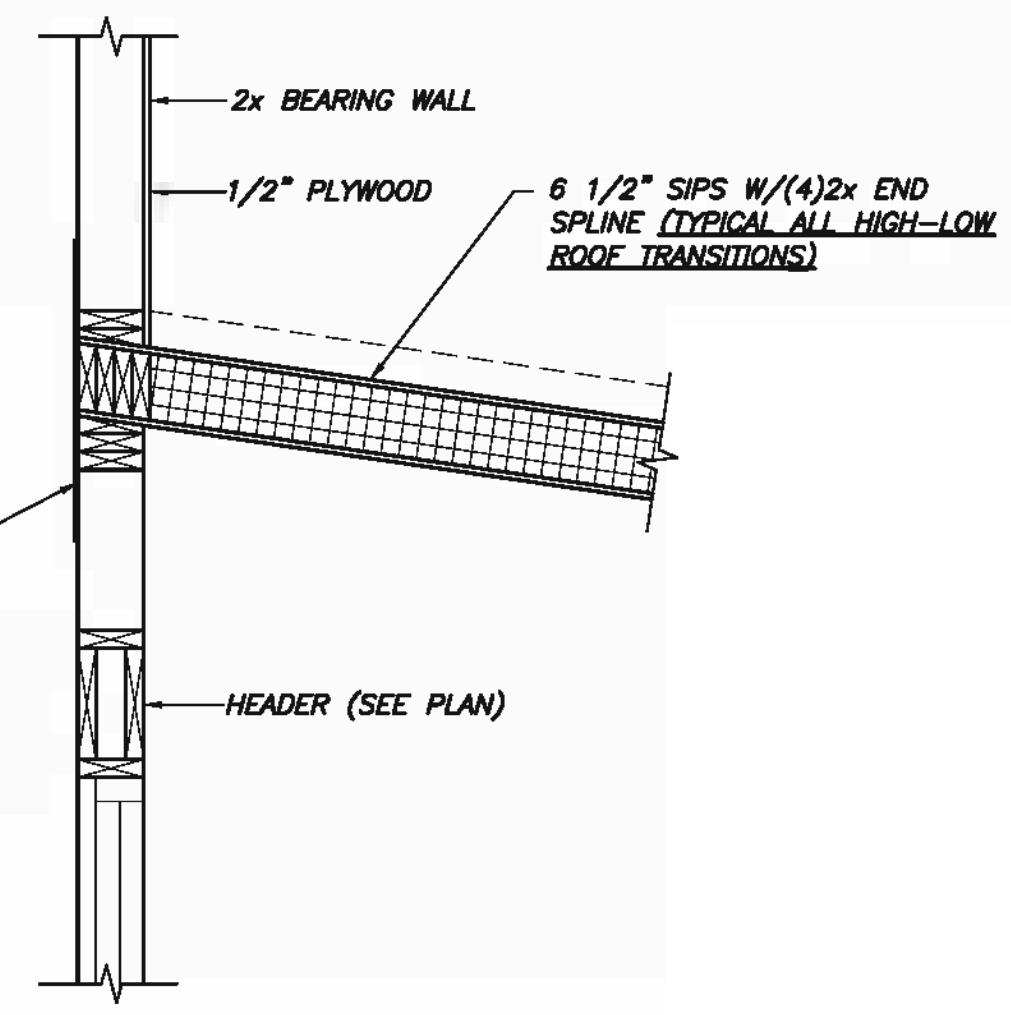
NOTE: PROVIDE INSULATION WITHIN HEADERS IN EXTERIOR WALLS WHERE (2)2x OR (2) LVLs ARE SPECIFIED. COORDINATE REQUIREMENTS WITH ARCH.



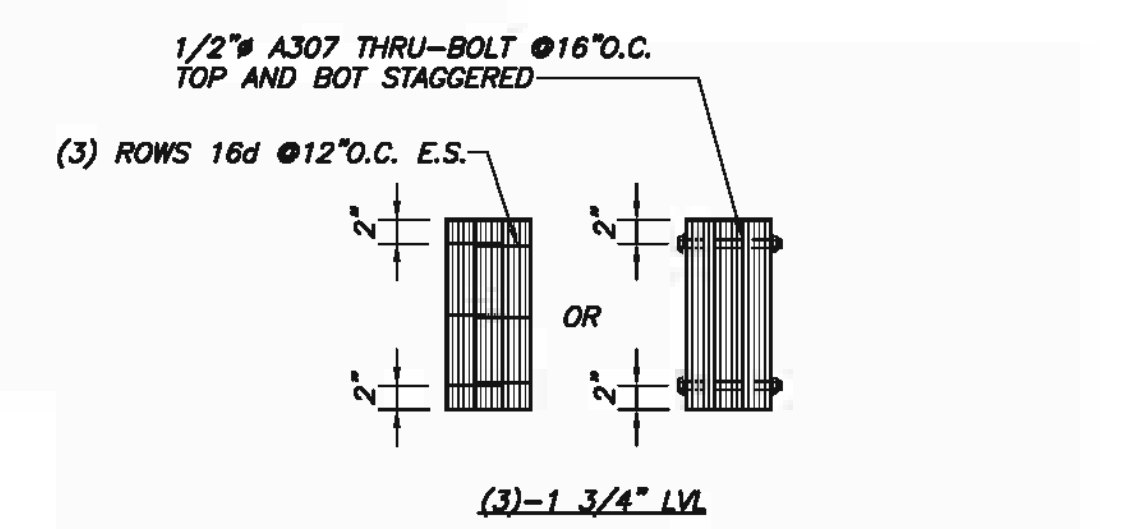
MULTI-SPAN CONTINUOUS HEADER DETAIL
N.T.S.



TYP HOLDOWN DETAIL AT FDN WALL
N.T.S.



SECTION
3/4"=1'-0"



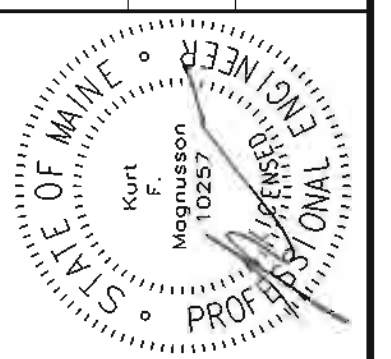
(SOLID LVL MEMBERS WITH EQUIVALENT MULTI PLY WIDTHS MAY BE USED)
TYP "BUILT-UP" LVL DETAIL, U.N.O.
N.T.S.



MECHANICAL SYSTEMS ENGINEERS
 ROYAL RIVER CENTER, UNIT #10
 10 FOREST FALLS DRIVE
 YARMOUTH, MAINE 04096
 207-848-1441
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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00

PIN
 017820.00



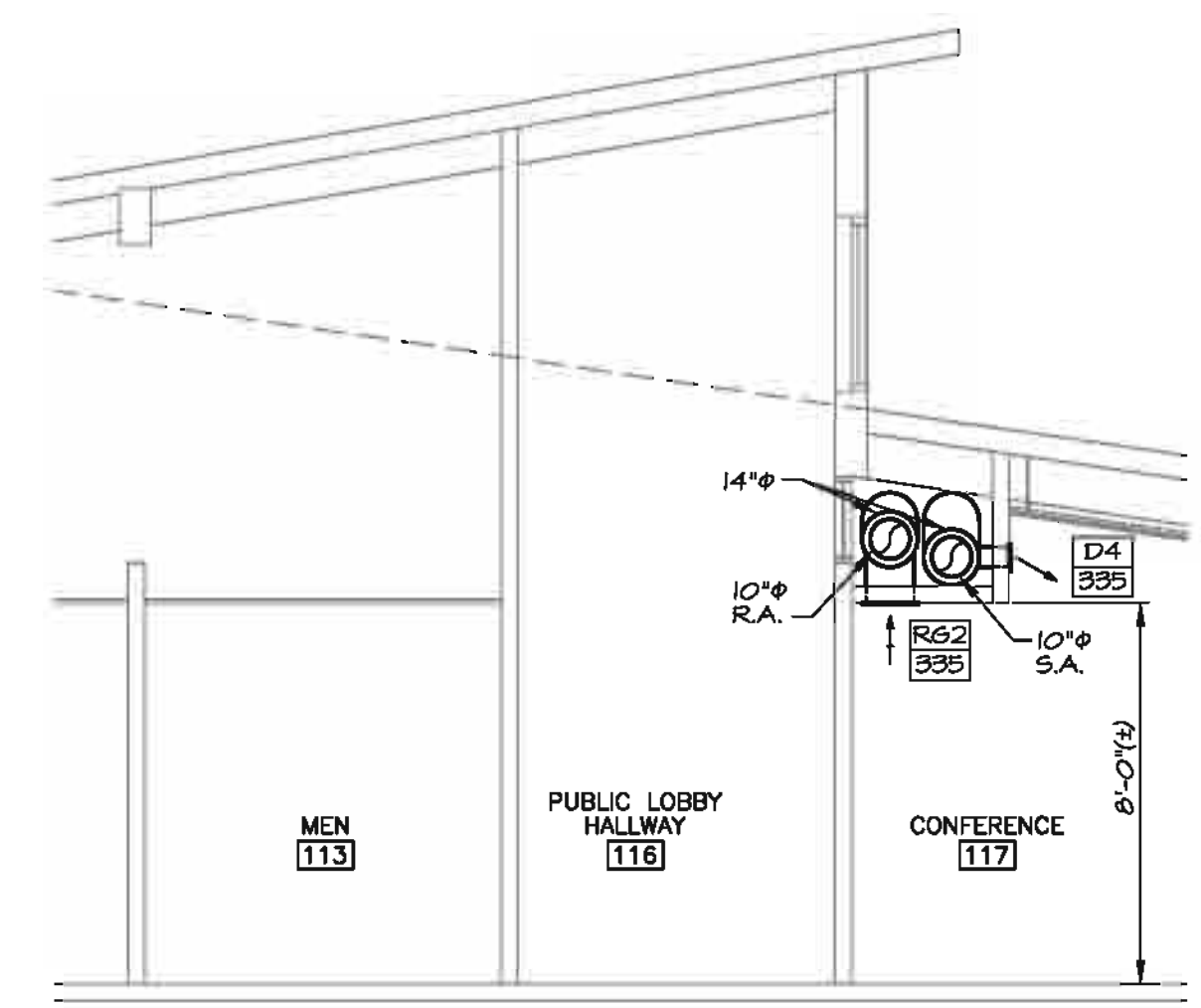
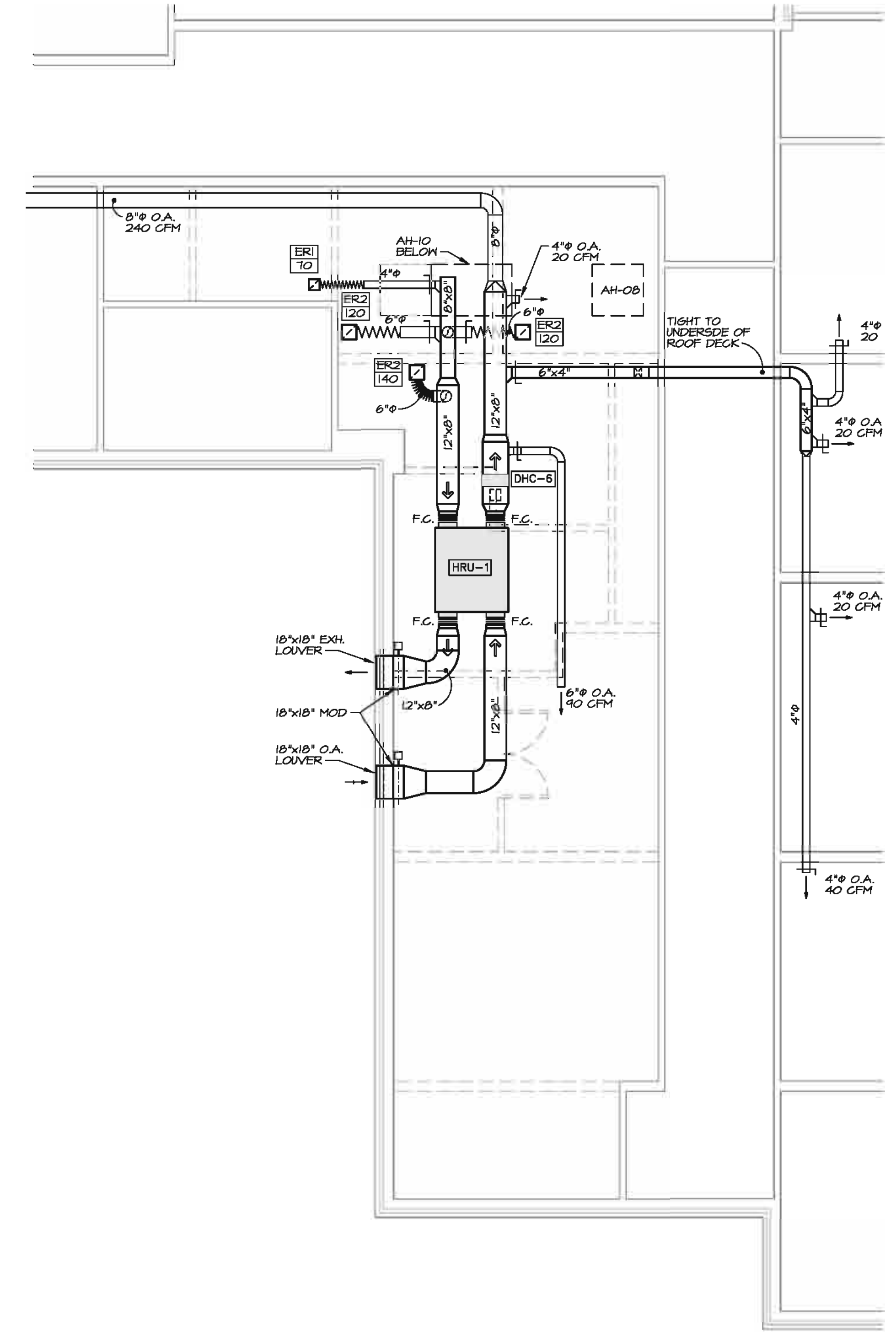
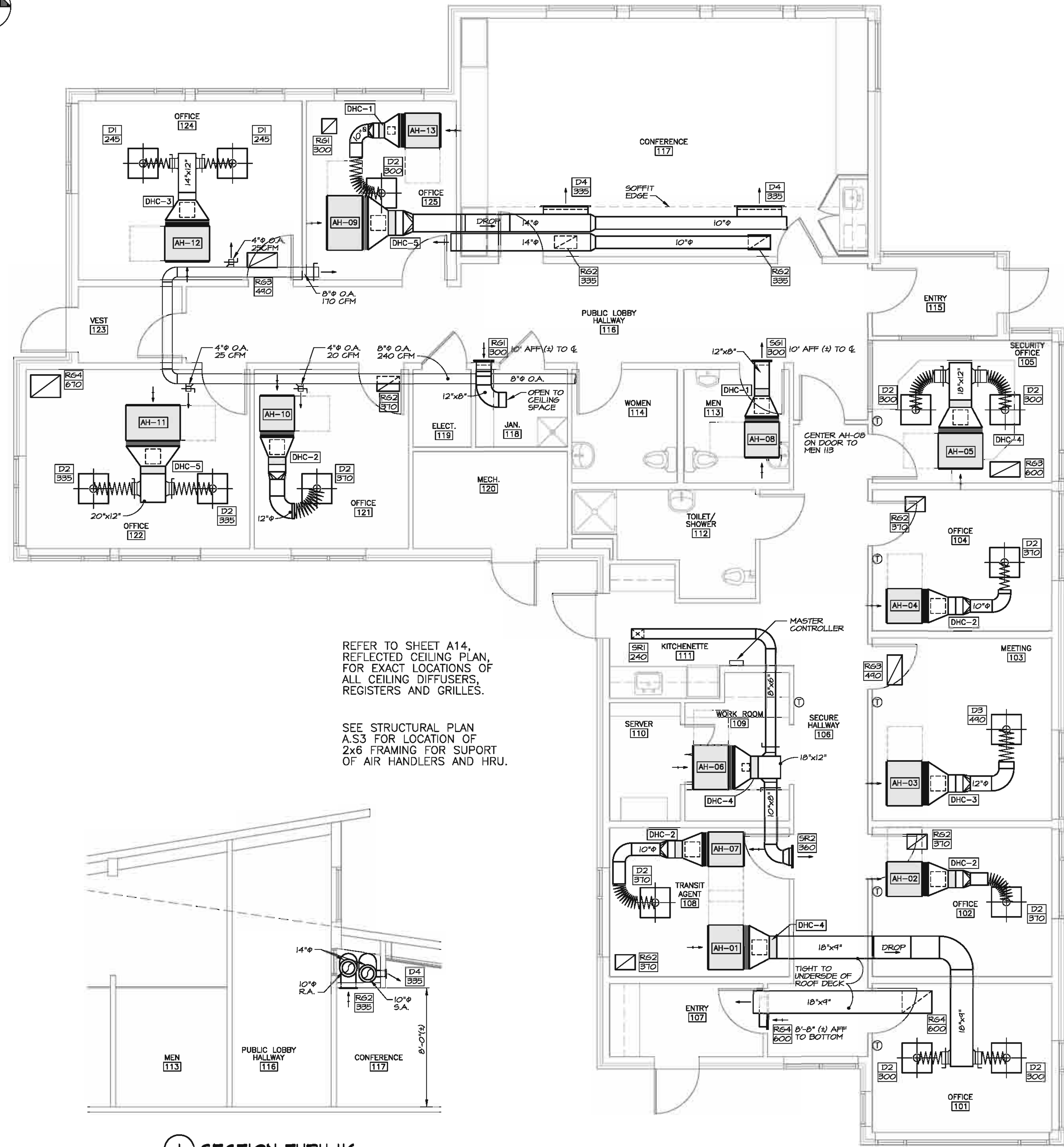
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3/25/11	REM	DESIGN-DETAILED			
3/25/11	KFM	CHECKED-REVIEWED			
		DESIGN-DETAILED			
		DESIGN-DETAILED			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
MECHANICAL DUCTWORK PLAN

SHEET NUMBER

A.M1

62 OF 71



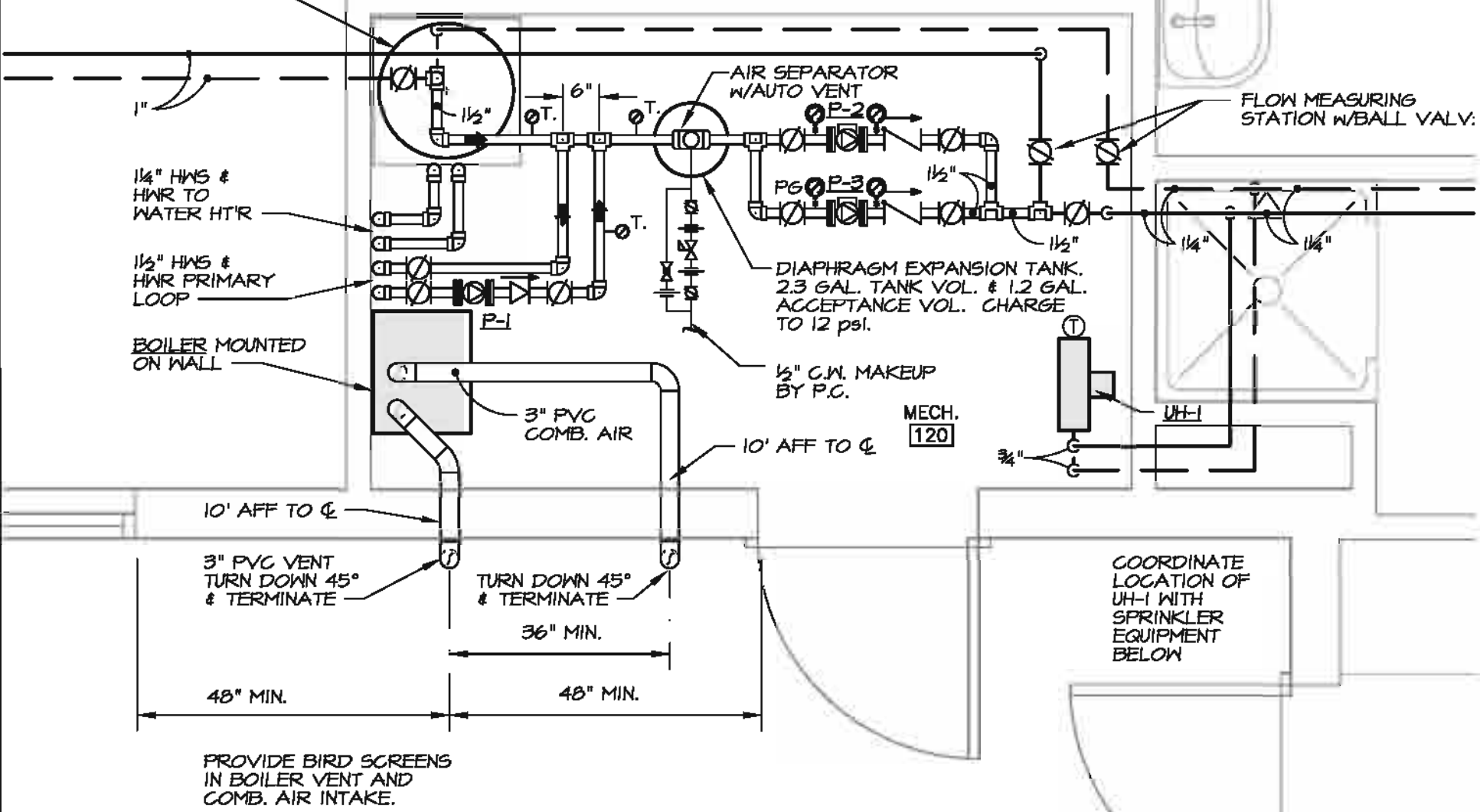
2 MAIN FLOOR MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"



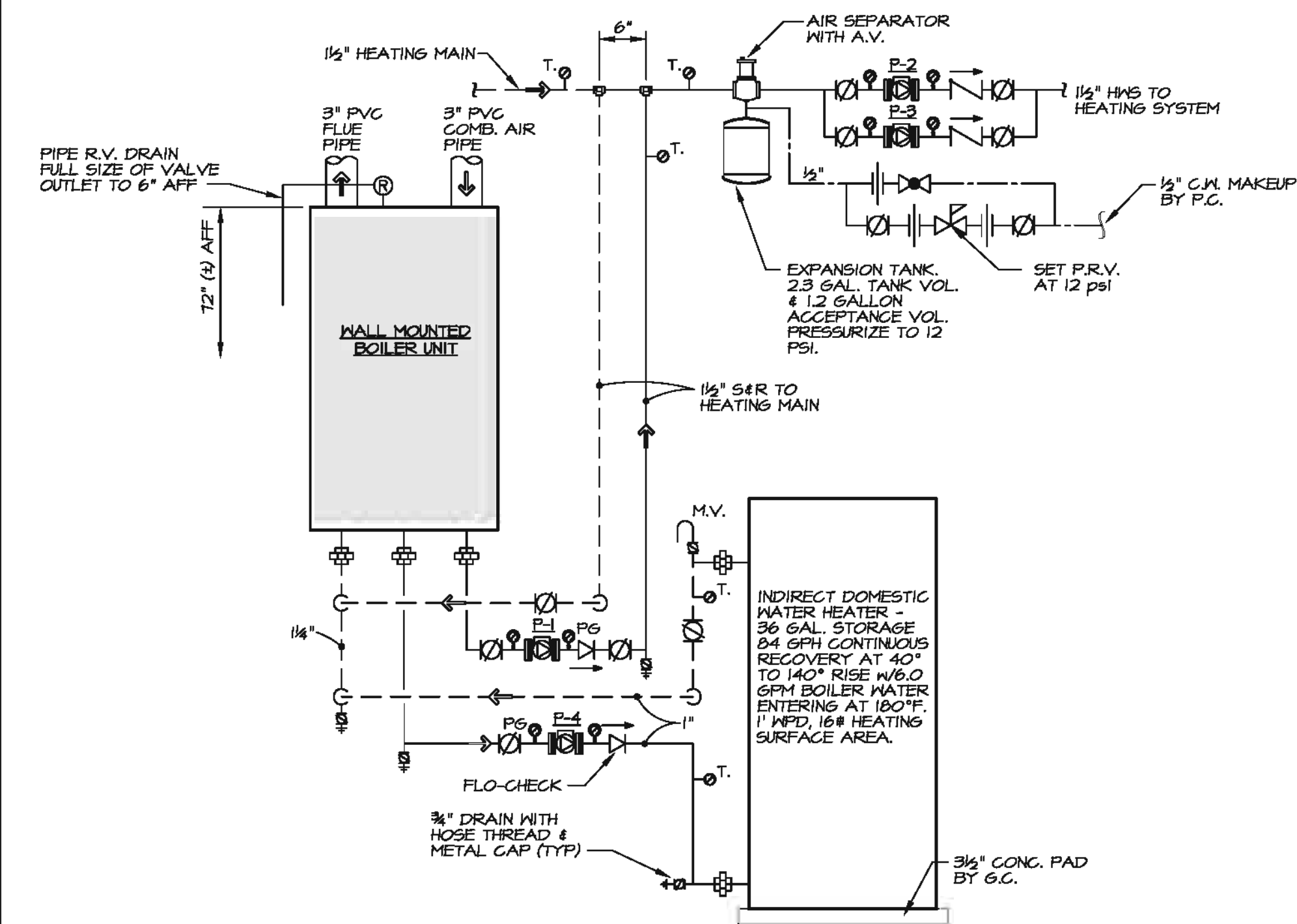
June 07, 2011 - 1:00 pm
 \\msf\projects\1032\Portland IMT\Office Drawings\1032-M1.dwg



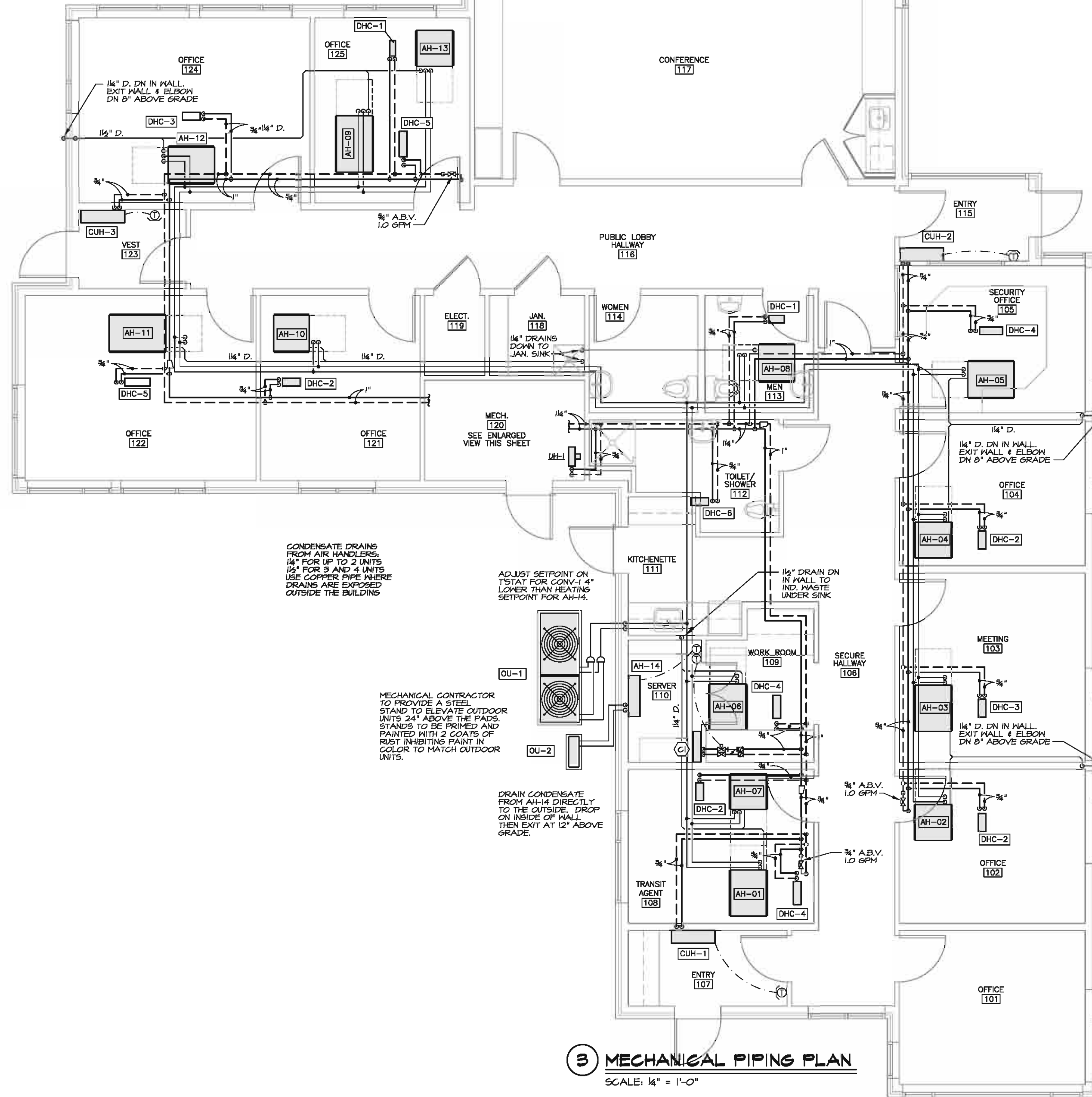
DOMESTIC STORAGE WATER HEATER ON 3/4" CONC. PAD 36 GAL. STORAGE 100 GPH CONT. RECOVERY @ 100° RISE (40° - 140°) WITH 6 GPM BOILER WATER ENTERING AT 160° & LEAVING AT 160°, 1.0' H.P.D.



1 MECHANICAL ROOM PLAN
SCALE: 1/2" = 1'-0"



2 BOILER PIPING DIAGRAM
NO SCALE

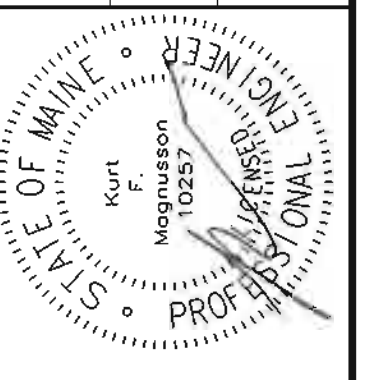


3 MECHANICAL PIPING PLAN
SCALE: 1/4" = 1'-0"



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10 FOREST FALLS DRIVE
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00

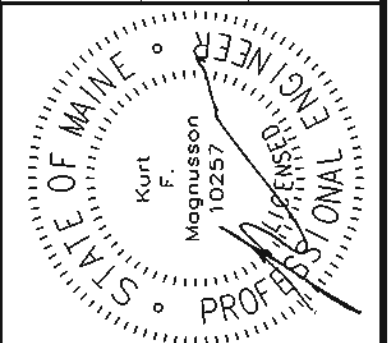


DATE	BY	REVISION	SIGNATURE	P.E. NUMBER	DATE
3/25/11	KFM	1			MARCH 25, 2011
		2			
		3			
		4			
					FIELD CHANGES

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
MECHANICAL PIPING PLAN

SHEET NUMBER

A.M2



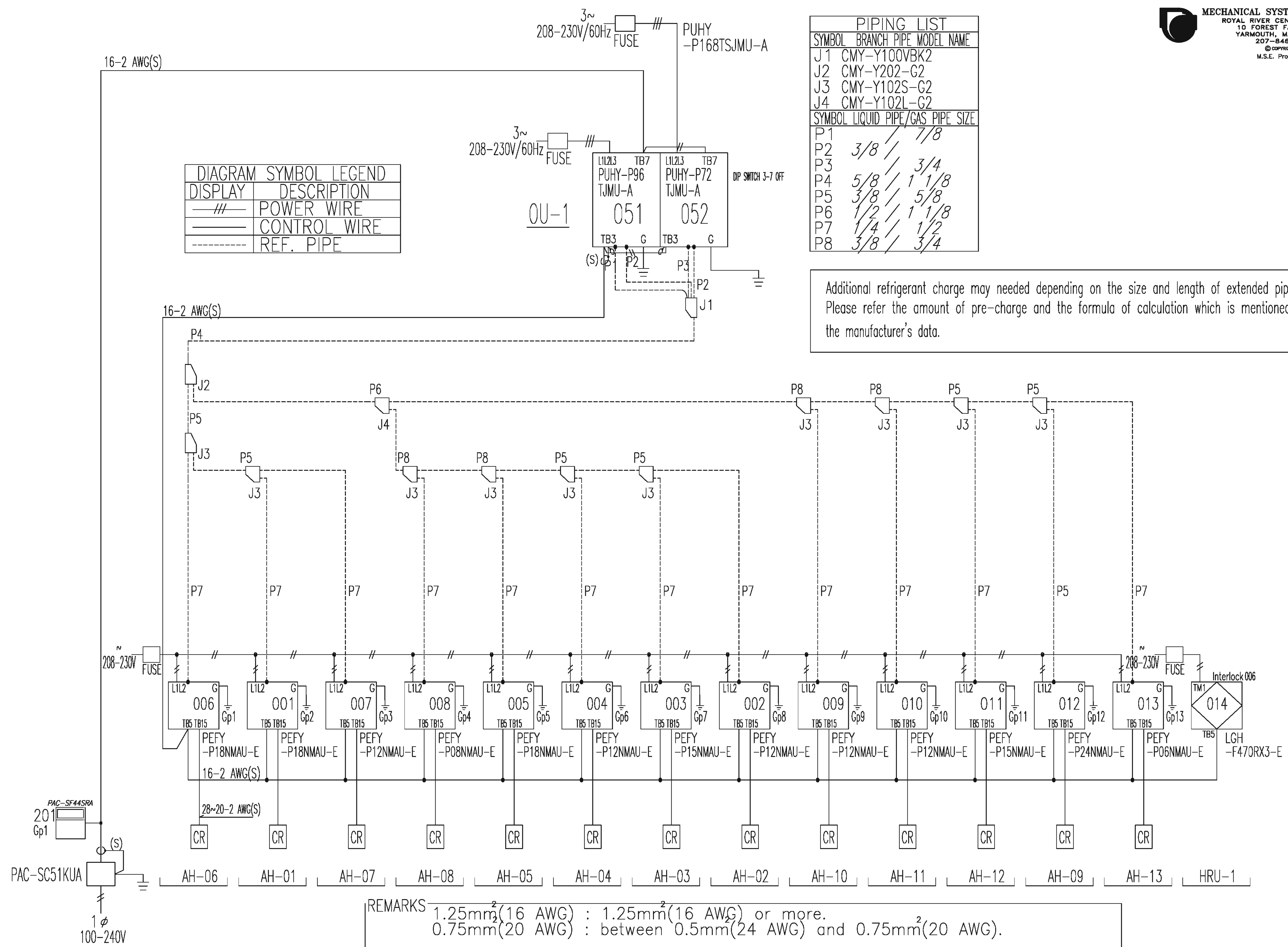
DATE	BY	REVISION	SIGNATURE	P.E. NUMBER	DATE
3/25/11	KFM	1			MARCH 25, 2011
		2			
		3			
		4			
		5			

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND
 CUMBERLAND COUNTY
HEAT PUMP SYSTEM SCHEMATIC

SHEET NUMBER
A.M3
 64 OF 71

PIPING LIST	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-Y100VBK2
J2	CMY-Y202-G2
J3	CMY-Y102S-G2
J4	CMY-Y102L-G2
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	7/8
P2	3/8
P3	3/4
P4	5/8
P5	3/8
P6	1/2
P7	1/4
P8	3/8

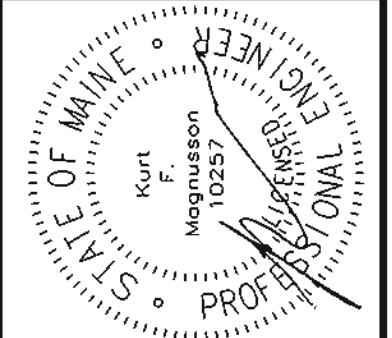
DIAGRAM DISPLAY	SYMBOL	LEGEND DESCRIPTION
---	///	POWER WIRE
---	---	CONTROL WIRE
---	---	REF. PIPE



Additional refrigerant charge may be needed depending on the size and length of extended piping. Please refer to the amount of pre-charge and the formula of calculation which is mentioned in the manufacturer's data.

REMARKS
 1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more.
 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

June 07, 2011 - 12:59 PM
 \\msrfs1\projects\1032-443.dwg

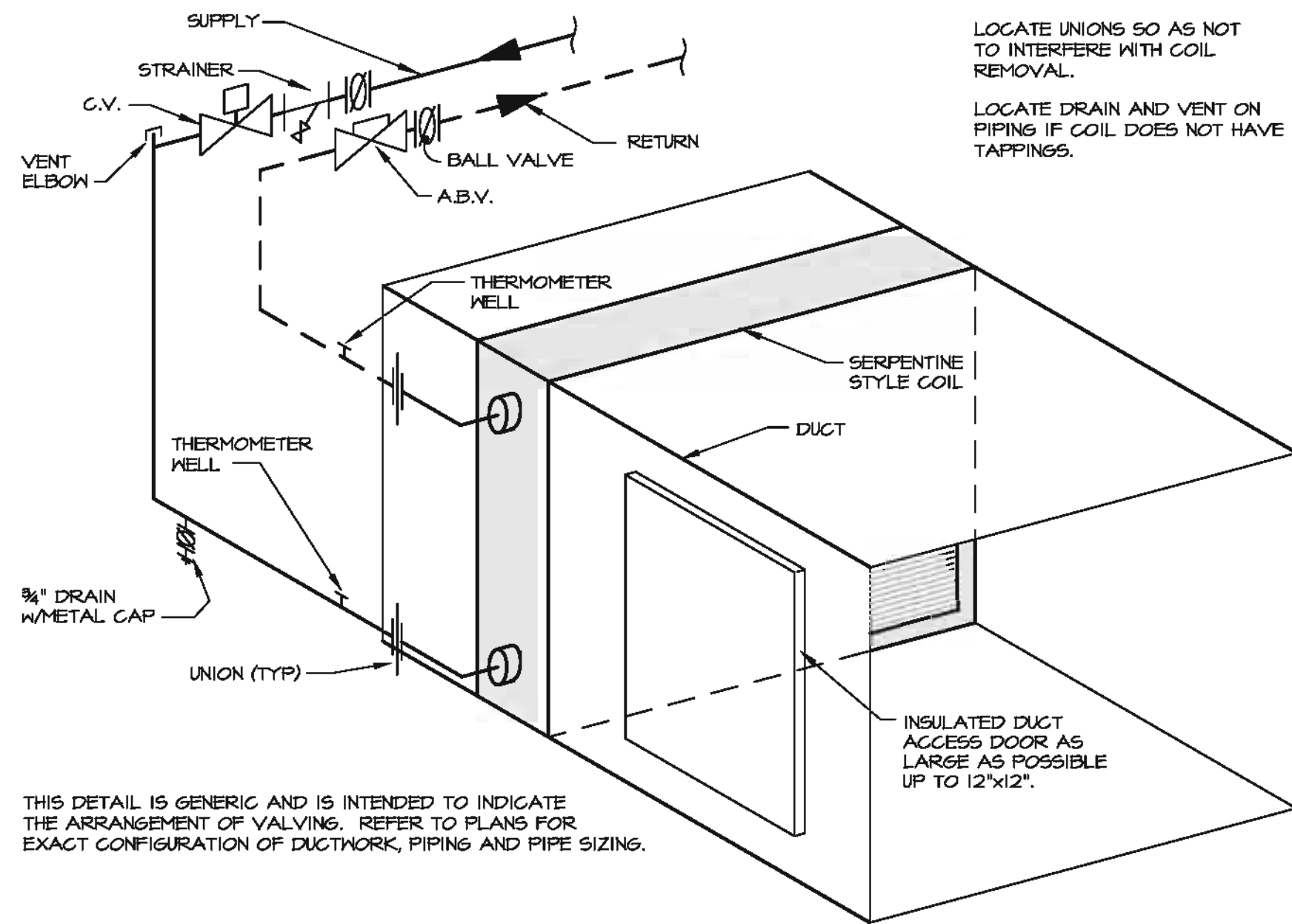


DATE	BY	REVISION	SIGNATURE	P.E. NUMBER	DATE
3/25/11	KFM	1			MARCH 25, 2011
		2			
		3			
		4			

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
GENERAL MECHANICAL DETAILS

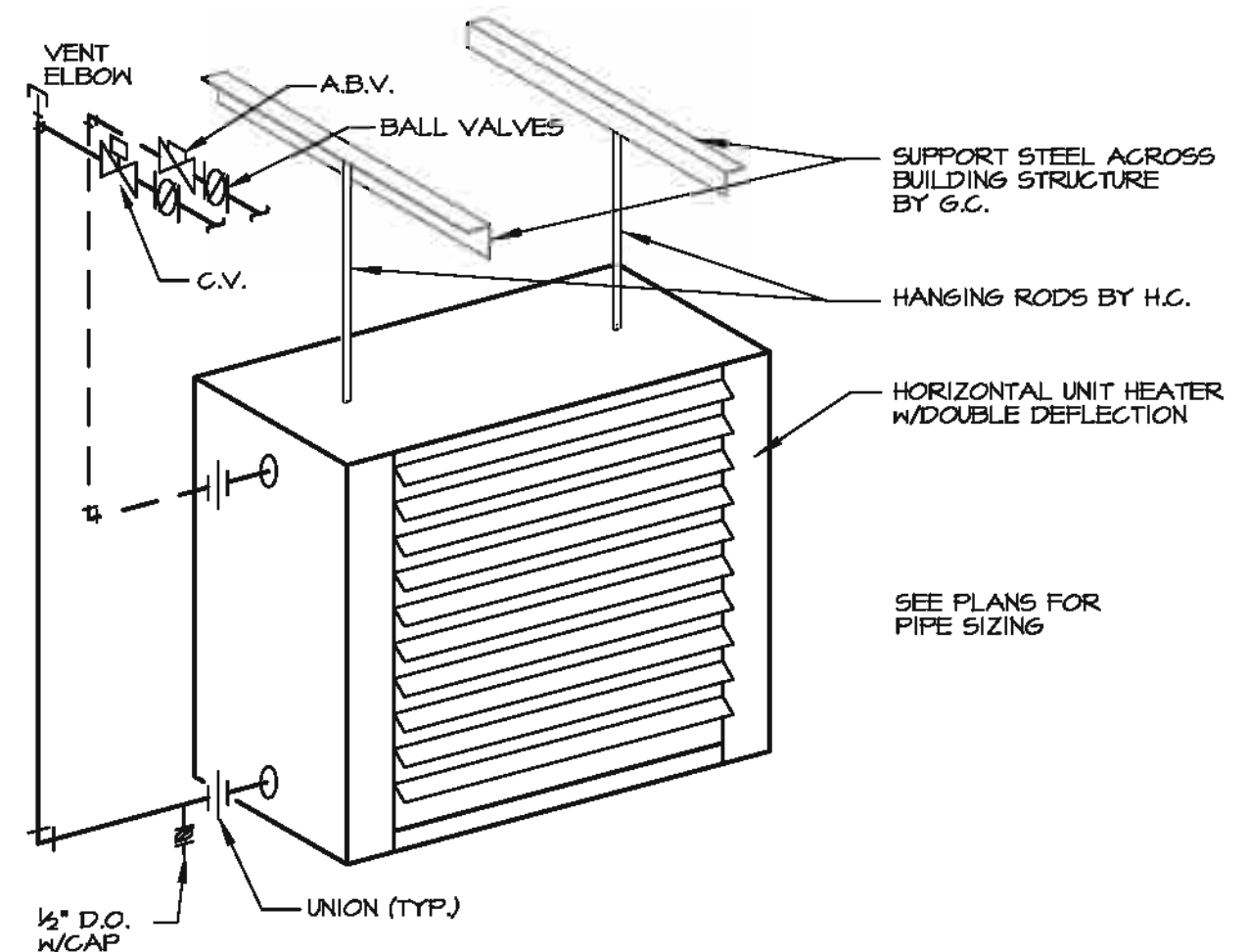
SHEET NUMBER

A.M4

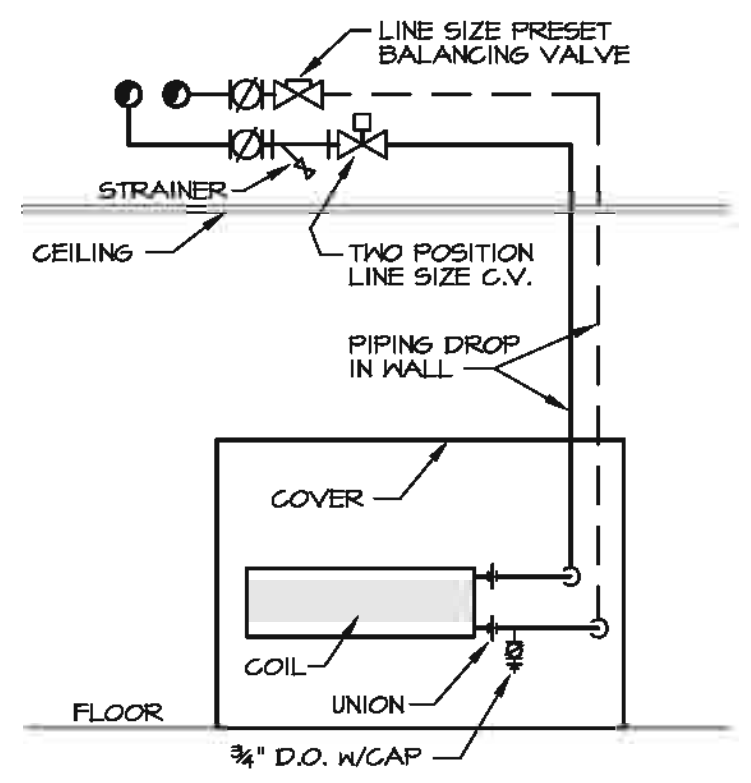


1 DUCT HOT WATER COIL DETAIL
 NO SCALE

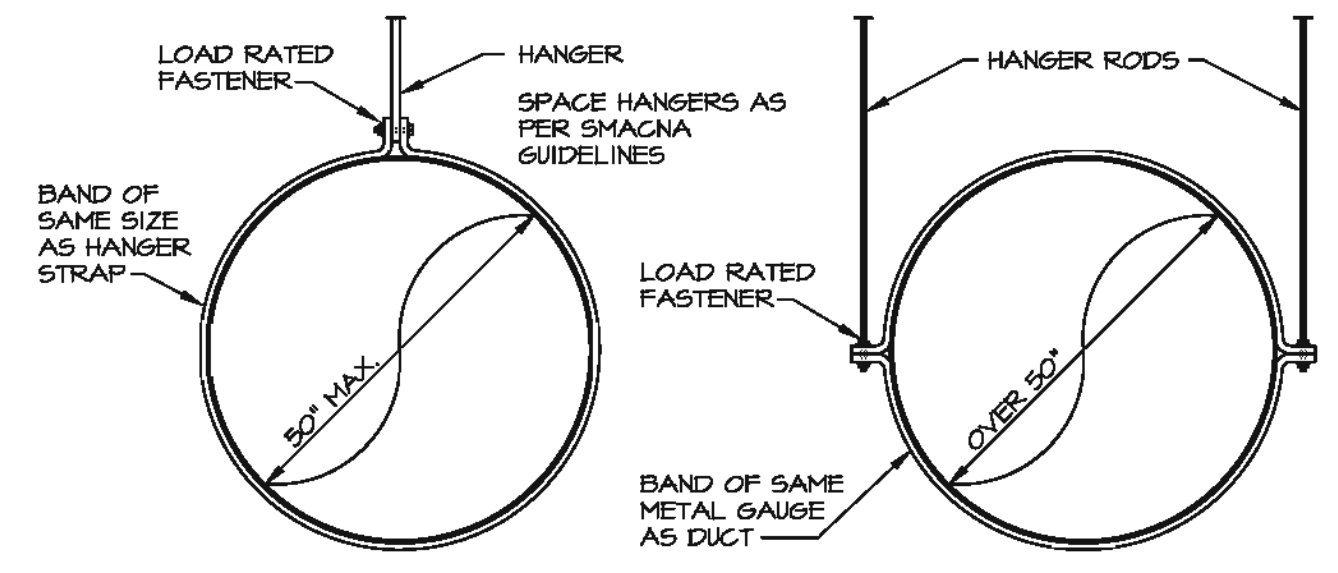
THIS DETAIL IS GENERIC AND IS INTENDED TO INDICATE THE ARRANGEMENT OF VALVING. REFER TO PLANS FOR EXACT CONFIGURATION OF DUCTWORK, PIPING AND PIPE SIZING.



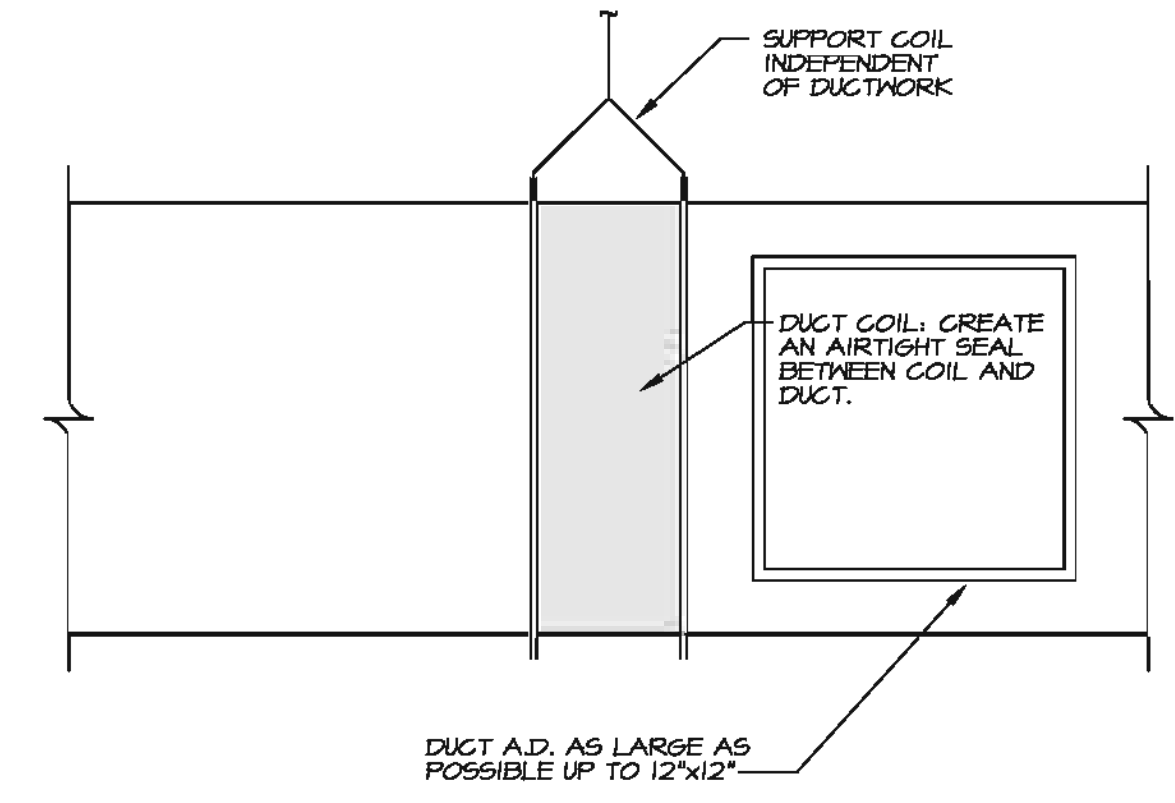
2 DOWNFEED HORIZONTAL UNIT HEATER
 NO SCALE



3 DOWNFEED CABINET UNIT HEATER
 NO SCALE

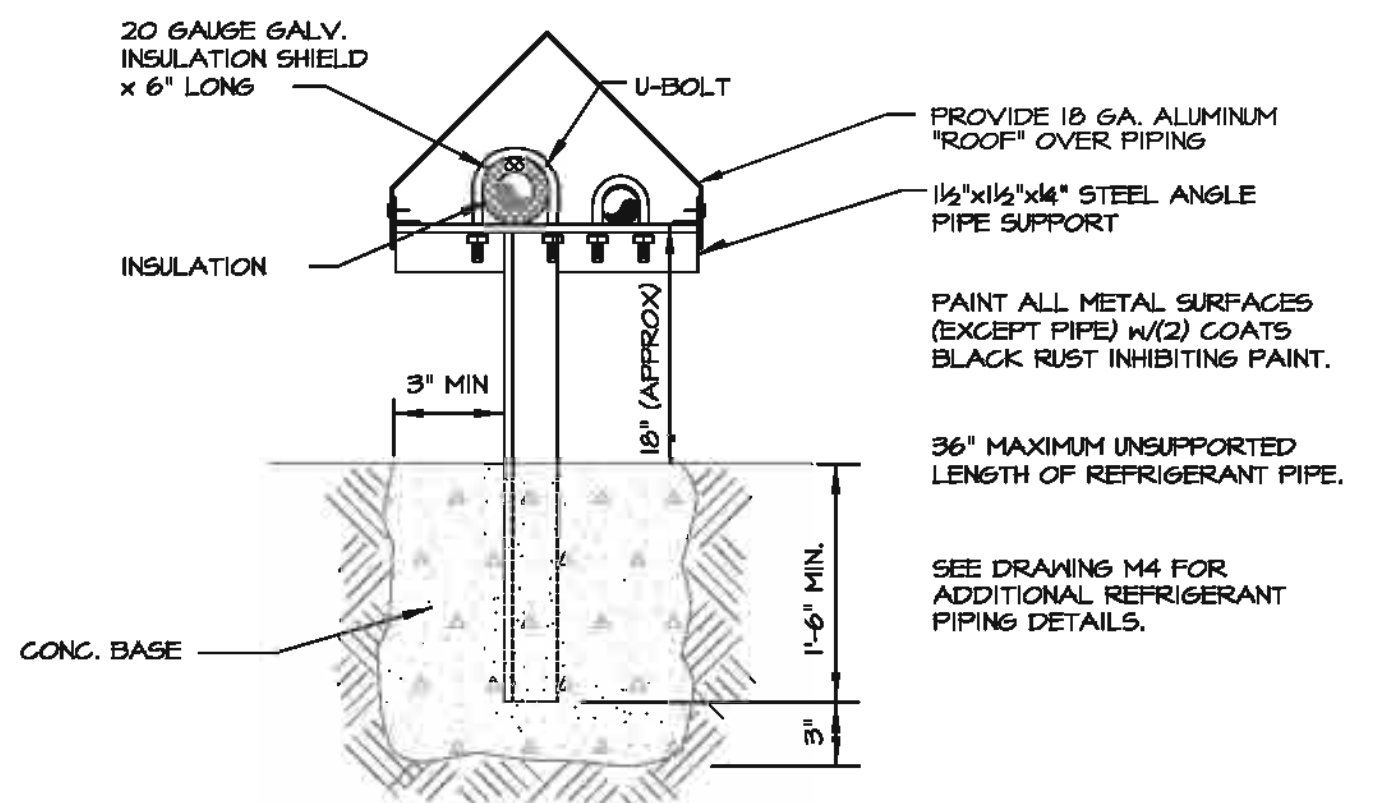


4 ROUND DUCT SUPPORTS
 NO SCALE

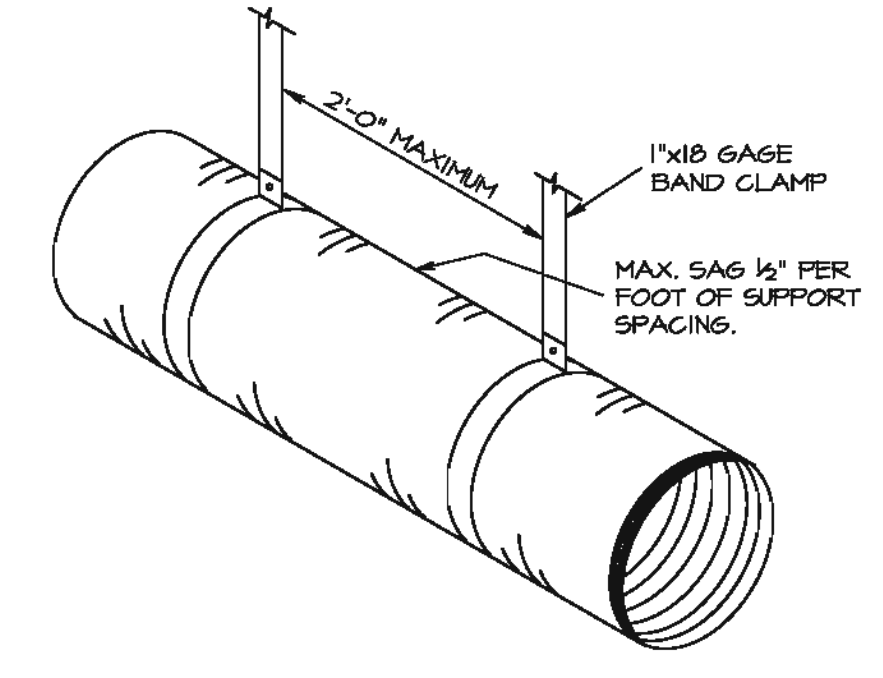


5 DUCT REHEAT COIL
 NO SCALE

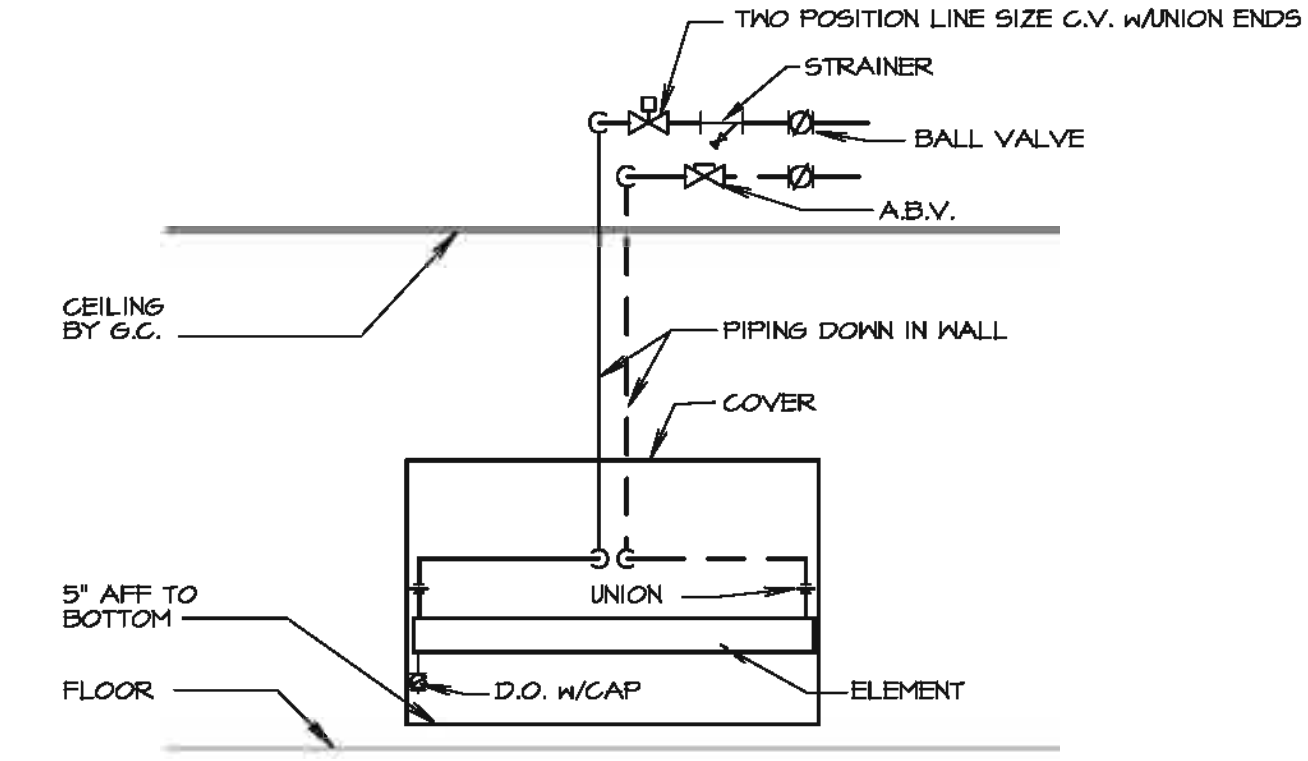
NOTE:
 LIQUID LINES SIMILAR WITH FELT LINED BRASS SLEEVE ALL AROUND PIPE.



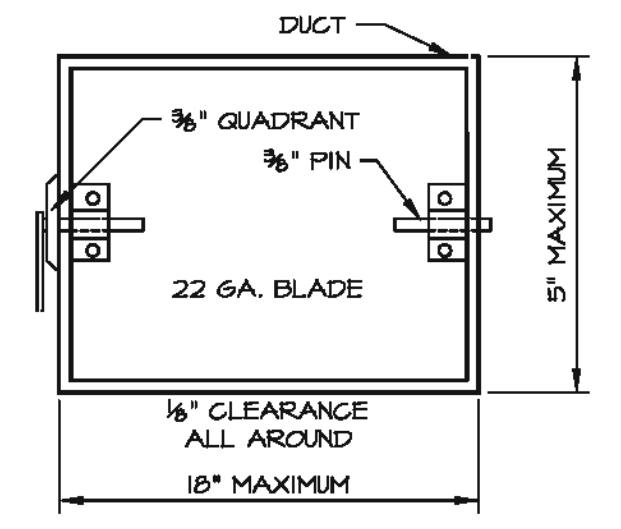
6 EXTERIOR REFRIGERANT PIPE SUPPORT
 NO SCALE



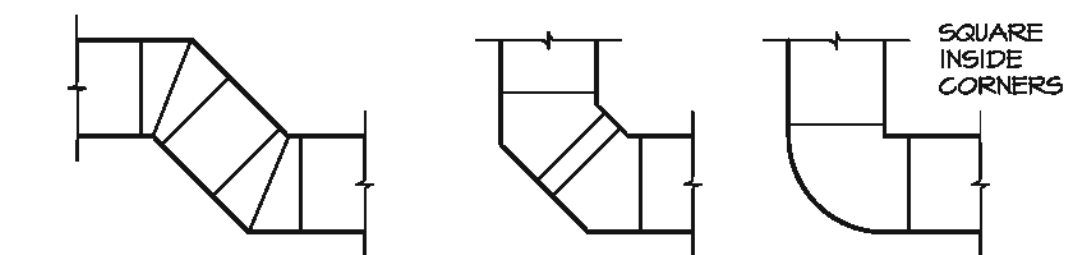
7 FLEXIBLE DUCT SUPPORT DETAIL
 NO SCALE



8 DOWNFEED CONVECTOR
 NO SCALE



9 SHOP FABRICATED MANUAL DAMPER
 NO SCALE

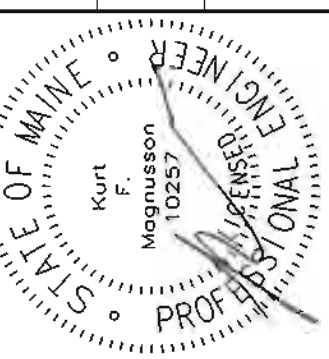


USE SMOOTH RADIUS ELBOWS ONLY
 THESE TYPES OF FITTINGS ARE UNACCEPTABLE UNLESS SPECIFICALLY INDICATED OTHERWISE.
10 UNACCEPTABLE DUCT FITTINGS
 NO SCALE



MECHANICAL SYSTEMS ENGINEERS
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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00



SIGNATURE
 P.E. NUMBER
 DATE

DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/25/11	EJP	CRIG R. MORIN									
3/25/11	KFM										

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
PLUMBING FLOOR PLAN

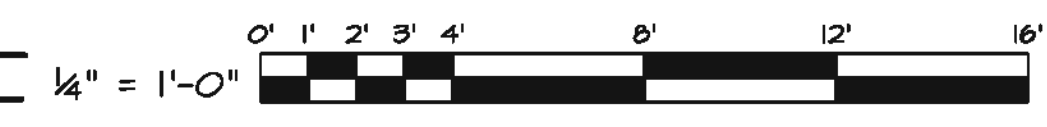
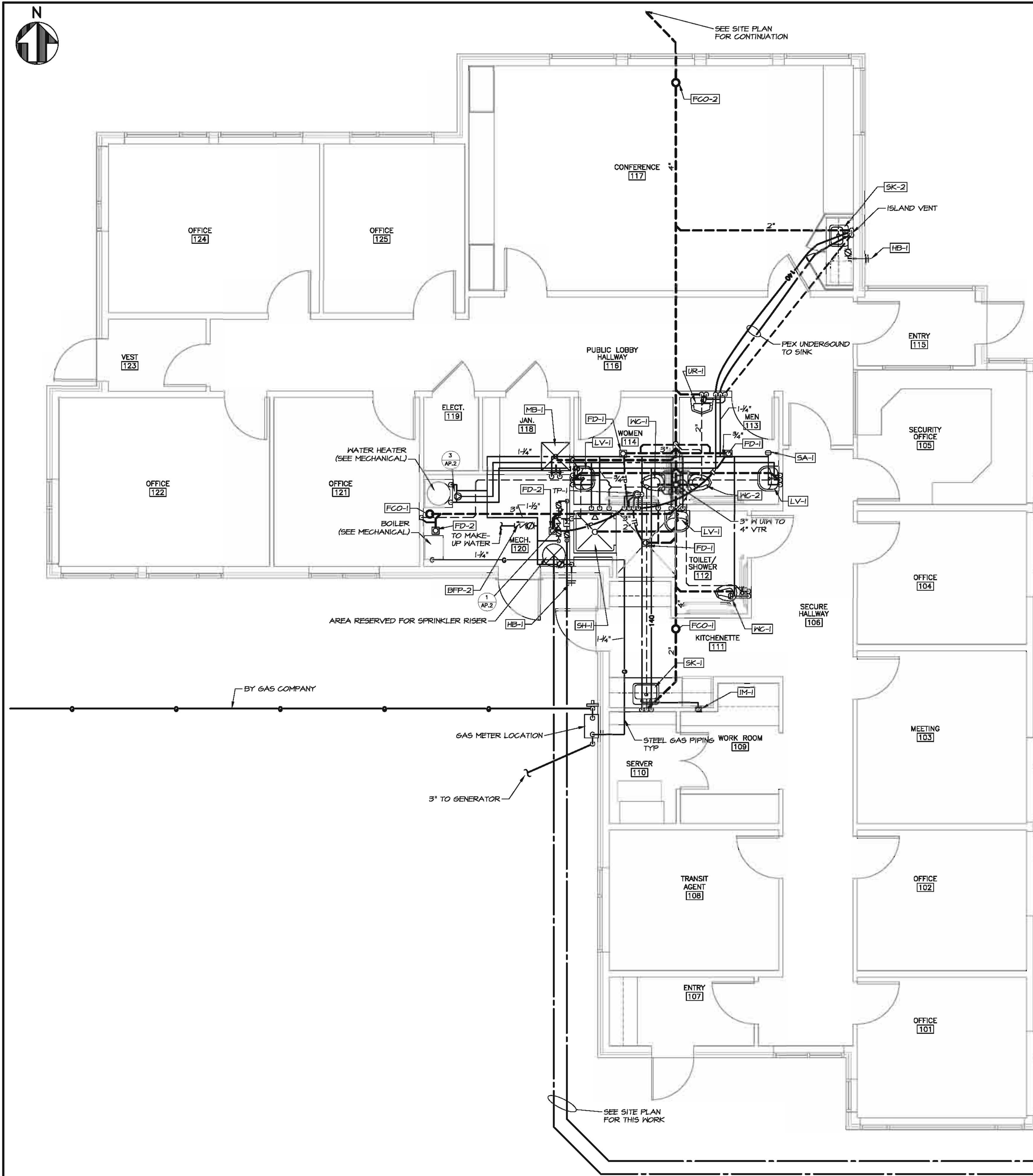
SHEET NUMBER

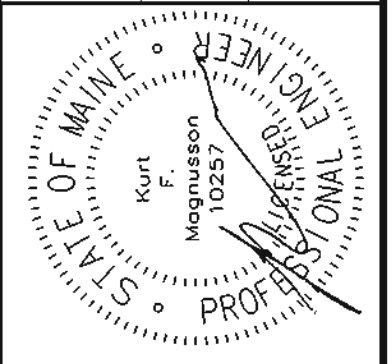
A.P1

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ABBREVIATIONS, LINE TYPES & SYMBOLS

140	140 DEG F HOT WATER	LV	LAVATORY	-----	SANITARY / WASTE PIPING BELOW SLAB
●	AT	M	METER	-----	SANITARY / WASTE PIPING ABOVE SLAB
A	AMPS	MB	MOP BASIN	-----	INDIRECT WASTE PIPING ABOVE SLAB
ADA	AMERICANS WITH DISABILITIES ACT	MTD	MOUNTED	-----	VENT PIPING ABOVE SLAB
AFF	ABOVE FINISHED FLOOR	MV	MIXING VALVE	-----	VENT PIPING BELOW SLAB
BFP	BACKFLOW PREVENTER	NB	NICKEL BRONZE	-----	COLD WATER PIPING
BLV	BALL VALVE	OD	OUTSIDE DIAMETER	-----	COLD WATER PIPING BELOW SLAB
CNTR	COUNTER	PC	PLUMBING CONTRACTOR	-----	TRAP PRIMER PIPING
CO	CLEANOUT	FDI	FLUMBING & DRAINAGE INSTITUTE	-----	120 HOT WATER PIPING
CONT	CONTINUATION	PG	PRESSURE GAUGE	-----	HOT WATER RETURN PIPING
COORD	COORDINATION	PH	PHASE	-----	140 HOT WATER PIPING
CW	COLD WATER, CLOTHES WASHER	PRV	PRESSURE REDUCING VALVE	-----	GAS PIPING
GHW	COLD & HOT WATER	PSI	POUNDS PER SQUARE INCH	-----	
DAM	DROP AT WALL	RAM	RISE AT WALL	○	BALL VALVE
DEG	DEGREES	RH	RIGHT HAND	○	VERTICAL BALL VALVE
DIV	DIVISION	RIG	RISE IN CHASE	○	BALANCING VALVE
DIM	DROP IN WALL	RIM	RISE IN WALL	○	CHECK VALVE
DN	DOWN	RUC	RUN UNDER COUNTER	○	BACKFLOW PREVENTER
DNAM	DOWN AT WALL	RUF	RUN UNDER FLOOR	○	VACUUM RELIEF VALVE
DNIM	DOWN IN CHASE	RV	RELIEF VALVE	○	RELIEF VALVE
DNIM	DOWN IN WALL	S	SANITARY WASTE	○	PRESSURE REDUCING VALVE
DO	DRAINOFF	SA	SHOCK ABSORBER	○	THERMOMETER
DW	DISHWASHER	SH	SHOWER	○	PRESSURE GAUGE
ET	EXPANSION TANK	SK	SINK	○	TRAP PRIMER
FCO	FLOOR CLEANOUT	SS	STAINLESS STEEL	○	DROP/RISE IN LINE
FD	FLOOR DRAIN	T	THERMOMETER	○	LINE UP TO FLOOR ABOVE
FFE	FINISHED FLOOR ELEVATION	TP	TRAP PRIMER	○	TEE -DROP
G	GAS (NATURAL)	TYP	TYPICAL	○	SHOCK ABSORBER
GAL	GALLONS	UIC	UP IN CHASE	○	UNION
GC	GENERAL CONTRACTOR	U&DNIM	UP & DOWN IN WALL	○	MIXING VALVE
GHT	GARDEN HOSE THREAD	UIM	UP IN WALL	○	FLOOR CLEANOUT
GPF	GALLONS PER FLUSH	V	VENT	○	FLOOR DRAIN
GPM	GALLONS PER MINUTE	VB	VACUUM BREAKER	○	WALL CLEANOUT
GV	GATE VALVE	VC	VITREOUS CHINA	○	VENT THROUGH ROOF
HB	HOSE BIB	VIF	VERIFY IN FIELD	○	HOSE BIB
HC	HEATING CONTRACTOR	VRV	VACUUM RELIEF VALVE	○	WATER METER
HM	HOT WATER	W	WASTE	○	PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG
HMR	HOT WATER RETURN	VTR	VENT THRU ROOF	○	
IE	INVERT ELEVATION	W	WASTE	○	
IDW	INDIRECT WASTE	WC	WATER CLOSET, WATER COLUMN	○	
IM	ICE MAKER	WCO	WALL CLEANOUT	○	
		MSI	WARM SIDE OF INSULATION	○	





DATE	BY	PROJ. MGR.	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/25/11	CEJ	CR	CEJ	KFM	-	-	-	-	-	-
3/25/11	KFM	-	-	-	-	-	-	-	-	-

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
 PLUMBING SCHEDULES & DETAILS

SHEET NUMBER

A.P2

GENERAL NOTES

- All work shall be in accordance with the Uniform Plumbing Code, local codes and ordinances, National Fire Code (NFFA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors. Reserve space for sprinkler mains. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- All plumbing fixtures shall be back vented.
- This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- For pipe sizes not shown on floor plans, refer to: adjacent or enlarged plumbing plans, then appropriate schedules, details, equipment connection sizes and minimum code requirements. For otherwise indeterminate pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. When a conflict exists, the larger size shall govern. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise. Special care shall be taken when dropping 3" nominal pipe in 3-1/2" wall cavities to ensure correct fit and alignment.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping 2" and larger shall be supported from the top chord of bar joists unless permission to do otherwise is obtained from the Structural Consultant. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- All water piping shall be installed parallel to building lines and pitched to low points. Provide draw-offs at low points. Piping shall be run neatly grouped together when practical.
- All piping through roofs, concrete walls and masonry partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All domestic water piping shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or waste lines shall be run in exterior walls, unless directly indicated.
- Provide shock absorbers where shown on drawings, and on tops of risers/drops to all flush valves, dishwashers and clotheswashers. Type SA-1 unless indicated otherwise.
- All sanitary waste piping less than 4" shall pitch down at 1/4" per L.F. All 4" and larger piping shall pitch at 1/4" per L.F. whenever possible.
- All Domestic copper water piping shall be type "K" or "L" copper, type "M" is prohibited.

PLUMBING FIXTURE SCHEDULE

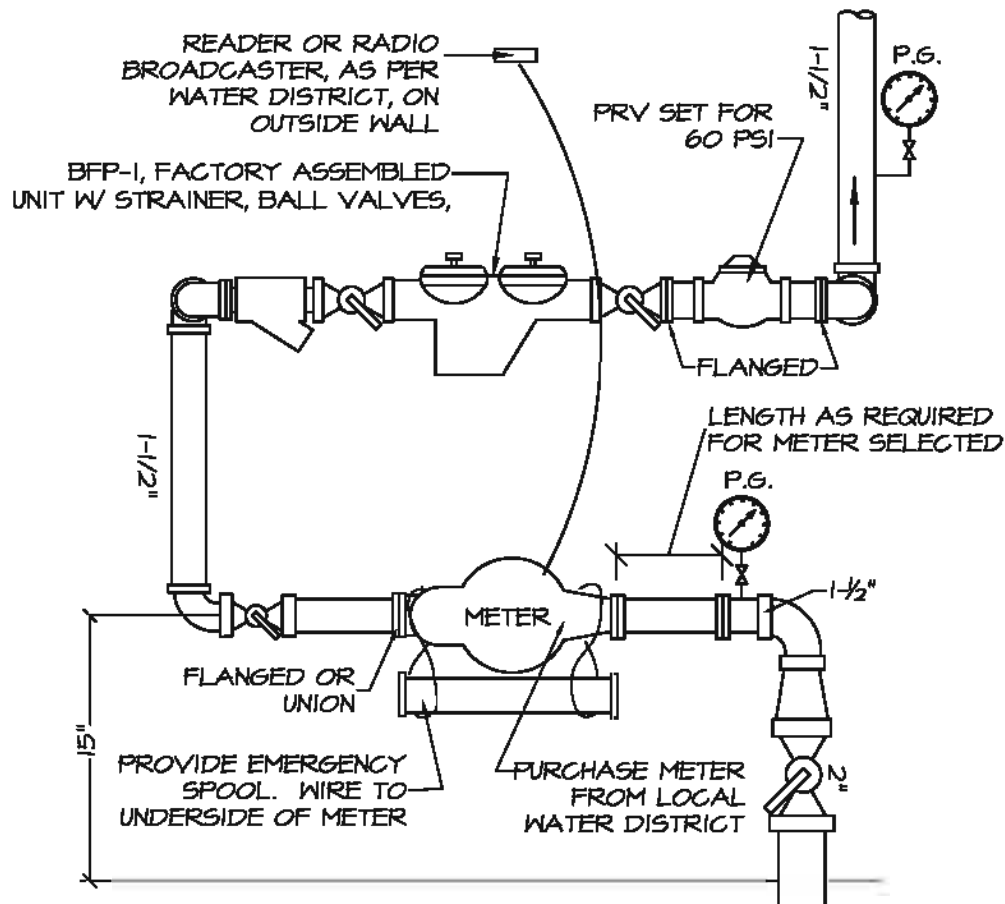
TAG	FIXTURE	COLD WATER	120° WATER	140° WATER	SAN/ WASTE	VENT	REMARKS	MOUNTING HEIGHT
IM-1	ICEMAKER BOX	1/2"						PER MANUF
LV-1	LAVATORY, WALL HUNG - ADA	1/2"	1/2"		1-1/4" x 1-1/2"	1-1/2"	VC, SINGLE HANDLE FAUCET	RIM 34"
MB-1	MOP BASIN	1/2"		1/2"	3"	1-1/2"	FLOOR MTD, MOLDED STONE 24"x24"x10", VB FAUCET	FLOOR
SH-1	SHOWER - RIGHT HAND ADA	1/2"	1/2"		2"	1-1/2"	GELCOAT FIBERGLASS, OPEN TOP, GRAB BARS, 38"x36"x11"	CONTROLS 48"
SK-1	SINK, SINGLE BOWL ADA	1/2"		1/2"	1-1/2" x 2"	1-1/2"	S.S. 22"x25"x6-1/2", KITCHEN FAUCET.	COUNTER
SK-2	SINK, SINGLE BOWL, BAR ADA	1/2"		1/2"	1-1/2"	1-1/2"	S.S. BAR SINK, BAR FAUCET.	COUNTER
UR-1	URINAL ADA	1"			2"	1-1/2"	1.0 GPF, VC, SA ON RISER	RIM 17"
WC-1	WATER CLOSET, TANK FLOOR MTD, STANDARD	1"			4"	2"	1.6 GPF, VC, 16-1/8" TO RIM,	FLOOR
WC-2	WATER CLOSET, TANK FLOOR MTD - ADA	1"			4"	2"	1.6 GPF, VC, 16-1/8" TO RIM, RIGHT HAND HANDLE	FLOOR

WATER SPEC. SCHEDULE

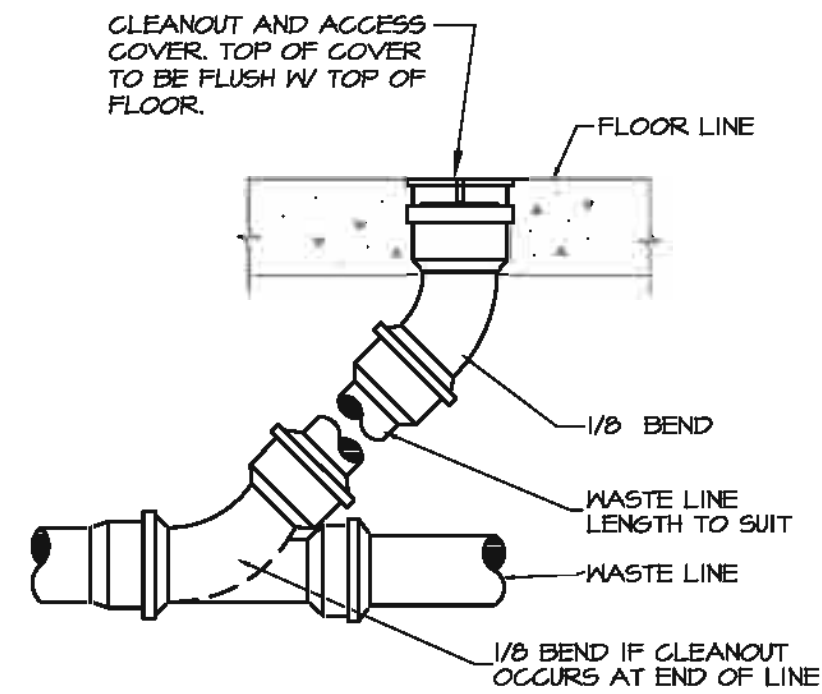
TAG	ITEM	CW	HW	OUTLET	REMARKS
BFP-1	WATER ENTRANCE BACKFLOW PREVENTERS	2"	-	SAME	
BFP-2	BOILER MAKE-UP WATER	3/4"	-	SAME	
ET-1	EXPANSION TANK POTABLE WATER	3/4"	-	-	
HB-1	NON-FREEZE HOSE BIB W/ VB	3/4"	-	3/4" GHT	
MV-1	MASTER MIXING VALVE, THERMOSTATIC	3/4"	3/4"	3/4"	120°
SA-1	SHOCK ABSORBER		1/2"	-	P.D.I. A
TP-1	TRAP SEAL PRIMER, LAVATORY	3/8"	-	SAME	
TP-2	TRAP SEAL PRIMER	1/2"	-	SAME	

DRAIN SPEC. SCHEDULE

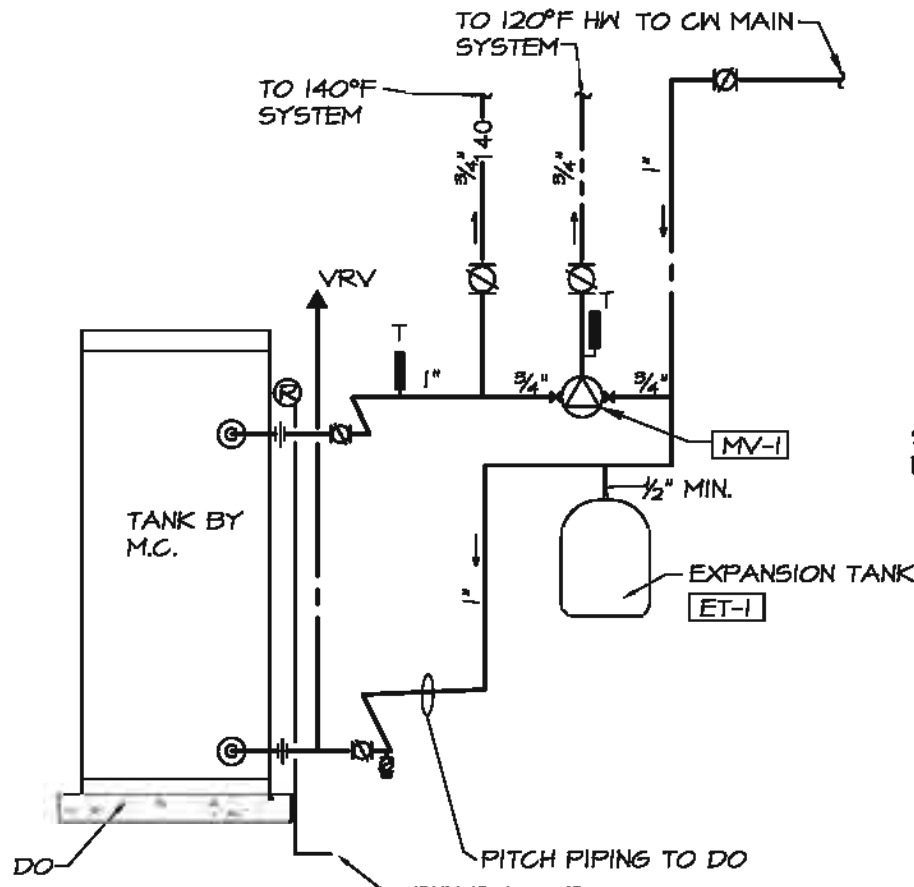
TAG	ITEM	WASTE	VENT	REMARKS
FCO-1	ROUND - FINISHED FLOOR CLEANOUT	SIZE OF PIPE	-	
FCO-2	ROUND - FINISHED FLOOR CLEANOUT FOR CARPET	SIZE OF PIPE	-	
FD-1	GENERAL ROUND FLOOR DRAIN	3"	1-1/2"	
FD-2	INDIRECT WASTE OPEN HUB WITH P-TRAP	3"	1-1/2"	PCV
FD-3	BOILER ROOM FLOOR DRAIN	3"	1-1/2"	



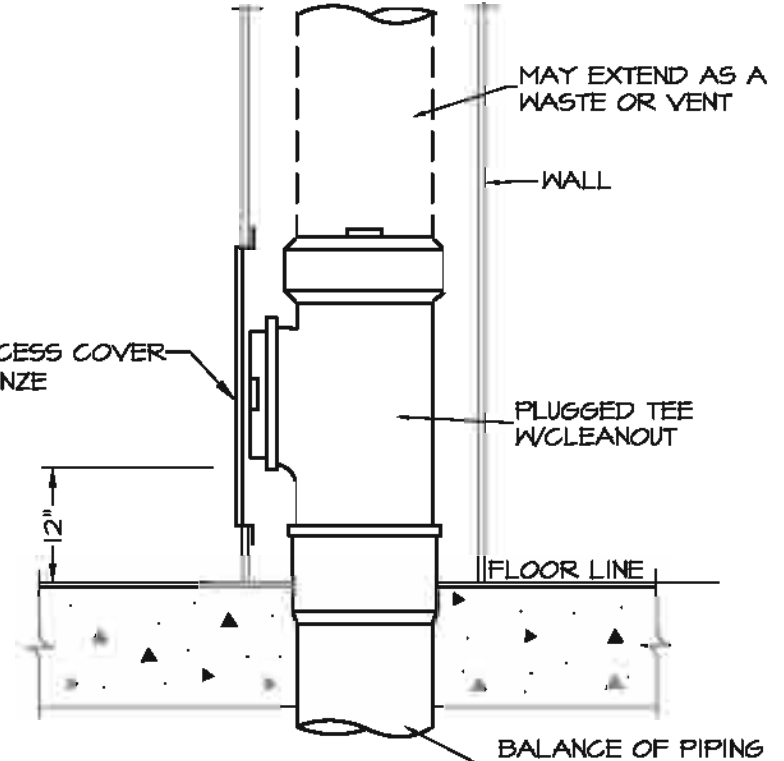
1 AP.1
 MAIN DOMESTIC WATER ENTRANCE
 SCALE: NONE



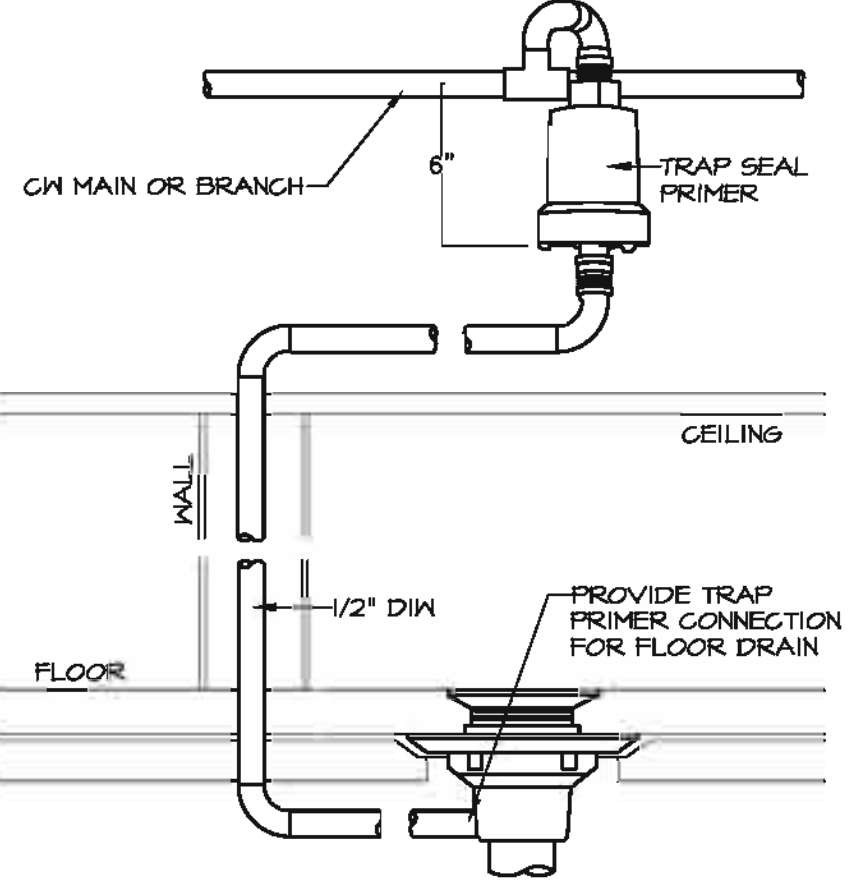
2 TYP
 FLOOR CLEAN OUT DETAIL
 SCALE: NONE



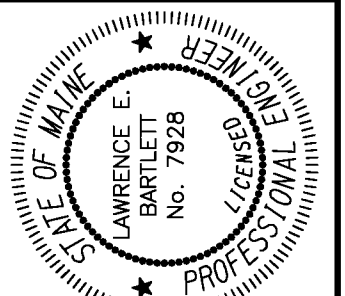
3 AP.1
 HOT WATER TANK DIAGRAM
 SCALE: NONE



4 TYP
 WALL CLEAN OUT DETAIL
 SCALE: NONE



5 TYP
 TRAP SEAL PRIMER #2
 SCALE: NONE



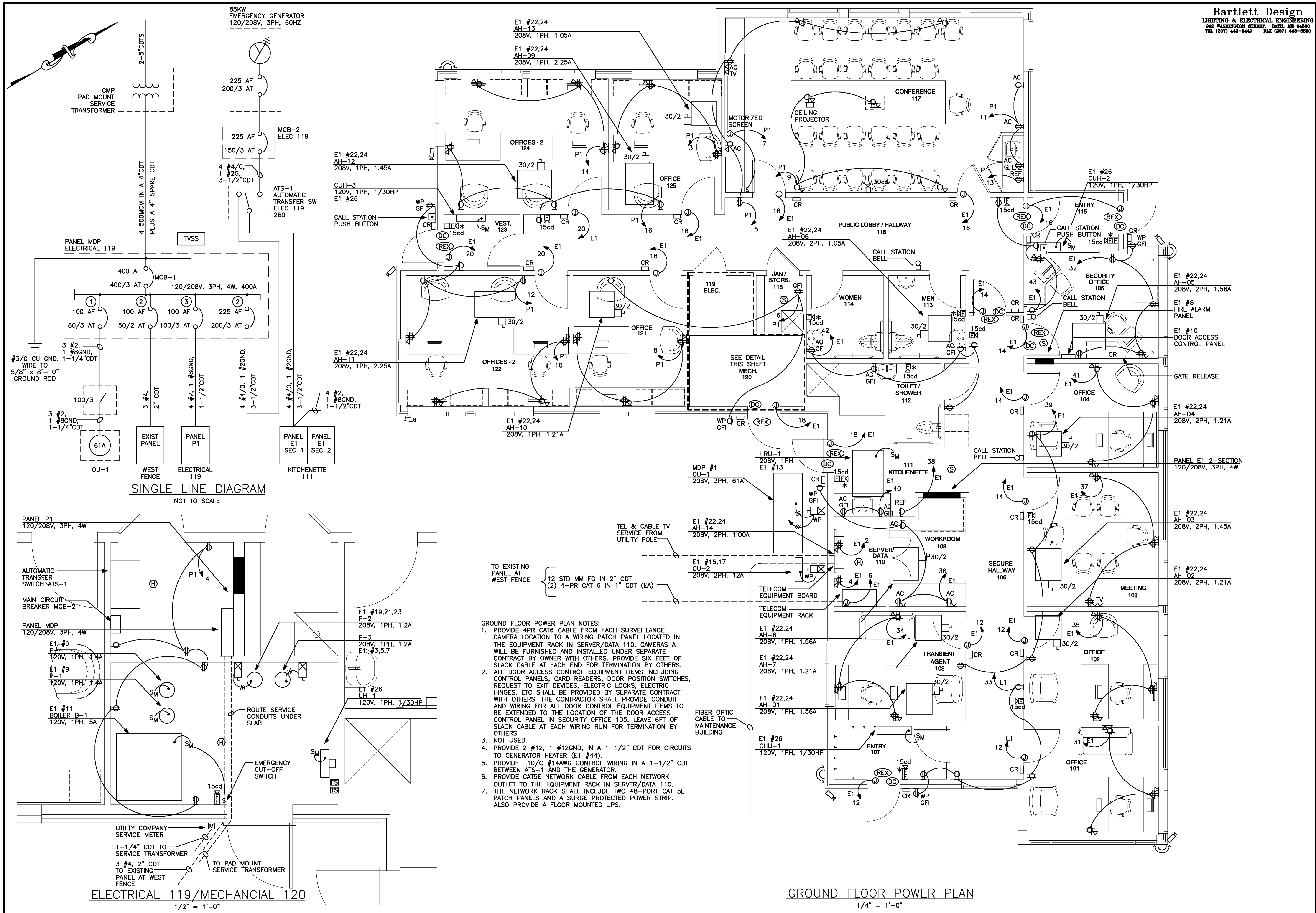
Lawrence E. Bartlett
 SIGNATURE
 7928
 P.E. NUMBER
 09/25/11
 DATE

DATE	BY	DESCRIPTION
3/25/11	JLC	DESIGN-DETAILED
3/25/11	LEB	CHECKED-REVIEWED
	LEB	DESIGN-DETAILED
		DESIGN-DETAILED
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
OFFICE BLDG. POWER PLAN

SHEET NUMBER

A.E1

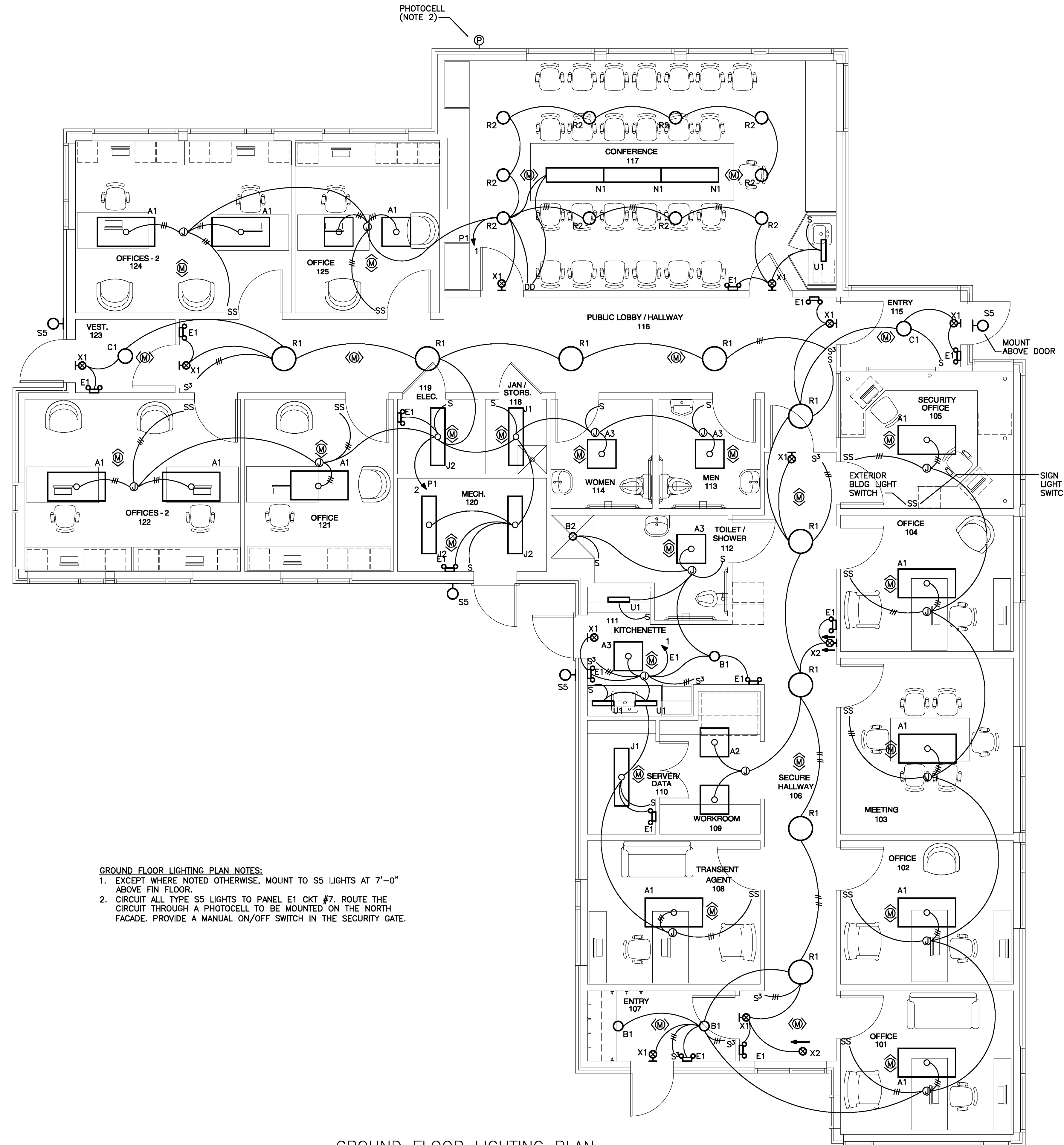
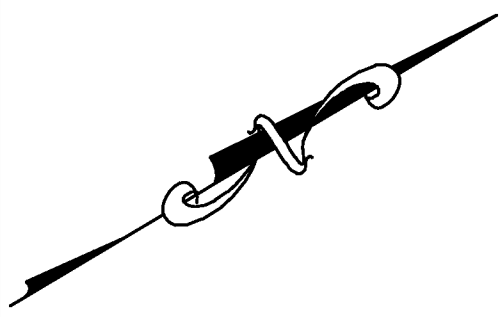


SINGLE LINE DIAGRAM
 NOT TO SCALE

- GROUND FLOOR POWER PLAN NOTES:**
1. PROVIDE 4PR CAT6 CABLE FROM EACH SURVEILLANCE CAMERA LOCATION TO A WIRING PATCH PANEL LOCATED IN THE EQUIPMENT RACK IN SERVER/DATA 110. CAMERAS WILL BE FURNISHED AND INSTALLED UNDER SEPARATE CONTRACT BY OWNER WITH OTHERS. PROVIDE SIX FEET OF SLACK CABLE AT EACH END FOR TERMINATION BY OTHERS.
 2. ALL DOOR ACCESS CONTROL EQUIPMENT ITEMS INCLUDING CONTROL PANELS, CARD READERS, DOOR POSITION SWITCHES, REQUEST TO EXIT DEVICES, ELECTRIC LOCKS, ELECTRIC HINGES, ETC SHALL BE PROVIDED BY SEPARATE CONTRACT WITH OTHERS. THE CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FOR ALL DOOR CONTROL EQUIPMENT ITEMS TO BE EXTENDED TO THE LOCATION OF THE DOOR ACCESS CONTROL PANEL IN SECURITY OFFICE 105. LEAVE 6FT OF SLACK CABLE AT EACH WIRING RUN FOR TERMINATION BY OTHERS.
 3. NOT USED.
 4. PROVIDE 2 #12, 1 #12GND, IN A 1-1/2" CDT FOR CIRCUITS TO GENERATOR HEATER (E1 #44).
 5. PROVIDE 10/C #14AWG CONTROL WIRING IN A 1-1/2" CDT BETWEEN ATS-1 AND THE GENERATOR.
 6. PROVIDE CAT5E NETWORK CABLE FROM EACH NETWORK OUTLET TO THE EQUIPMENT RACK IN SERVER/DATA 110. THE NETWORK RACK SHALL INCLUDE TWO 48-PORT CAT 5E PATCH PANELS AND A SURGE PROTECTED POWER STRIP. ALSO PROVIDE A FLOOR MOUNTED UPS.

ELECTRICAL 119/MECHANICAL 120
 1/2" = 1'-0"

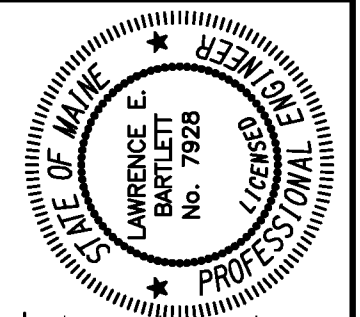
GROUND FLOOR POWER PLAN
 1/4" = 1'-0"



- GROUND FLOOR LIGHTING PLAN NOTES:**
- EXCEPT WHERE NOTED OTHERWISE, MOUNT TO S5 LIGHTS AT 7'-0" ABOVE FIN FLOOR.
 - CIRCUIT ALL TYPE S5 LIGHTS TO PANEL E1 CKT #7. ROUTE THE CIRCUIT THROUGH A PHOTOCELL TO BE MOUNTED ON THE NORTH FACADE. PROVIDE A MANUAL ON/OFF SWITCH IN THE SECURITY GATE.

GROUND FLOOR LIGHTING PLAN
1/4" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER 017820.00



Lawrence E. Bartlett
SIGNATURE
7928
P.E. NUMBER
03/25/11
DATE

PROJ. MGR	DATE	BY	REVISIONS
CRAIG R. MORIN	3/25/11	JLC	DESIGN-DETAILED
	3/25/11	LEB	CHECKED-REVIEWED
			DESIGN-DETAILED
			REVISIONS 1
			REVISIONS 2
			REVISIONS 3
			REVISIONS 4
			FIELD CHANGES

PORTLAND INTERNATIONAL
MARINE TERMINAL IMPROVEMENTS
PORTLAND
CUMBERLAND COUNTY
OFFICE BLDG. LIGHTING PLAN

SHEET NUMBER

A.E2

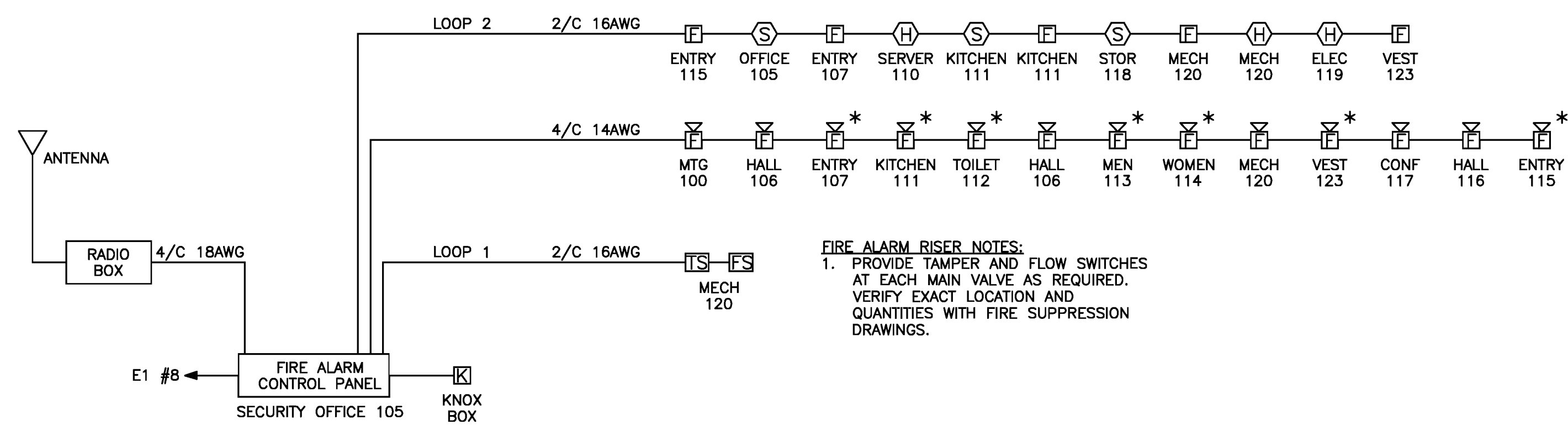
ELECTRICAL PLAN & SINGLE LINE SYMBOLS

SYMBOL	DESCRIPTION
	125V, 20A, DUPLEX GROUNDED RECEPTACLE GFI = Ground Fault Interrupt AC = 6" Above Counter or Sink WP = Weatherproof TR = Technology Receptacle WN = Wireless Network Outlet (12" below the clg)
	QUAD RECEPTACLE
	250V, SINGLE GROUNDED RECEPTACLE Indicates Ampere Rating
	DUPLEX DATA PROCESSING OUTLET
	TELEPHONE OUTLET W = Wall Mounted Height 48"
	COMBINATION DATA/TELEPHONE OUTLET
	RECESSED FLOOR BOX (Contents May Vary, See Plan for Details)
	CABLE TELEVISION OUTLET
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	CONTROL PANEL (See Plan for Details)
	ELECTRICAL PANELBOARD (See Plan for Details and Mounting)
	DOOR HOLDER
	MOTOR STARTER
	UNFUSED DISCONNECT SWITCH FU = Fused No. of Poles Ampere Rating
	MANUAL MOTOR STARTER
	DOORBELL
	PUSHBUTTON
	WALL MTD MOTION DETECTOR
	CLG MTD MOTION DETECTOR
	FIXED CAMERA LOCATION
	PTZ CAMERA LOCATION
	SECURITY SYSTEM CARD READER
	SECURITY SYSTEM KEYPAD
	FIRE ALARM AUDIO/VISUAL INDICATOR Indicates Visual Only, No Horn Candela Rating
	FIRE ALARM PULL STATION
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM SMOKE DETECTOR Indicates Duct Mounted
	FIRE ALARM WALL MOUNTED SMOKE DETECTOR
	FIRE ALARM TAMPERSWITCH
	FIRE ALARM FLOW SWITCH

SYMBOL	DESCRIPTION
	RECESSED/SURFACE MOUNTED 1X4 LIGHTING FIXTURE Fixture Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED 2X4 LIGHTING FIXTURE Fixture Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED 2X2 LIGHTING FIXTURE Fixture Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED CIRCULAR LIGHTING FIXTURE Fixture Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED ACCENT LIGHTING FIXTURE Fixture Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	WALL MOUNTED LIGHTING FIXTURE Fixture Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE Fixture Designation (See Lighting Fixture Schedule for Details)
	CEILING MOUNTED EMERGENCY LIGHTING FIXTURE Fixture Designation (See Lighting Fixture Schedule for Details)
	WALL MOUNTED EXIT SIGN Fixture Designation (See Lighting Fixture Schedule for Details) Provide Directional Arrows as Indicated on Plans
	CEILING MOUNTED EXIT SIGN Fixture Designation (See Lighting Fixture Schedule for Details) Provide Directional Arrows as Indicated on Plans
	LIGHTING/DEVICE SWITCH 3 = Three-Way Type 4 = Four-Way Type WP = Weatherproof PL = Pilot Light Switching Control Designation (See Plans for Details)
	LIGHTING DIMMER 3 = Three-Way Type 4 = Four-Way Type Switching Control Designation (See Plans for Details)
	TEMPERATURE CONTROL PANEL Provided Under Div 15 Wired Under Div 16
	VARIABLE FREQUENCY DRIVE Provided Under Div 15 Wired Under Div 16
	MOTOR OPERATED DAMPER Provided Under Div 15 Wired Under Div 16
	HOMERUN TO PANELBOARD Indicates No. of Wires, Excluding Ground Circuit No. Panelboard Designation

SYMBOL	DESCRIPTION
	Ampere Frame Rating
	CIRCUIT BREAKER 200 AF 200/3 AT Ampere Trip Rating
	ELECTRICAL CONNECTION
	GROUND CONNECTION
	EQUIPMENT ENCLOSURE
	TRANSFORMER
	Fuse Rating
	DISCONNECT SWITCH FU: 60A 200/2 No. of Poles Ampere Rating
	UTILITY CO. SERVICE METER
	SHUNT TRIP
	ENCLOSED CIRCUIT BREAKER 800 AF 700/3 AT
	MOTOR 20 HP

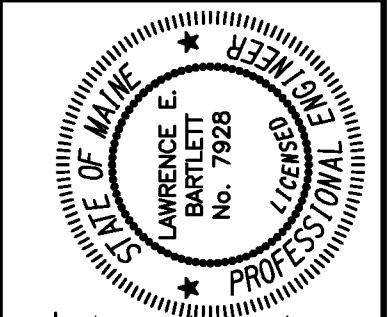
* NOTE NOT ALL SYMBOLS USED *



FIRE ALARM RISER NOTES:
 1. PROVIDE TAMPERS AND FLOW SWITCHES AT EACH MAIN VALVE AS REQUIRED. VERIFY EXACT LOCATION AND QUANTITIES WITH FIRE SUPPRESSION DRAWINGS.

FIRE ALARM RISER DIAGRAM
 NOT TO SCALE

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER 017820.00
 PIN 017820.00



Lawrence E. Bartlett
 SIGNATURE
 P.E. NUMBER 7928
 DATE 09/25/11

DATE	BY	REVISIONS
3/25/11	JLC	DESIGN-DETAILED
3/25/11	LEB	CHECKED-REVIEWED
	LEB	DESIGN-DETAILED
		DESIGN-DETAILED
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

PORTLAND INTERNATIONAL
 MARINE TERMINAL IMPROVEMENTS
 PORTLAND CUMBERLAND COUNTY
OFFICE BLDG. ELEC. DETAILS

SHEET NUMBER
A.E3
 71 OF 71