

JOHN ELIAS BALDACCI

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 16 STATE HOUSE STATION AUGUSTA, MAINE 04333-0016

DAVID A. COLE

COMMISSIONER

January 18, 2007 Subject: **Topsham** Pin No. 14062.11 **Amendment No. 4**

Dear Sir/Ms:

Please make the following changes to the Bid Documents:

In the Bid Book on the "Notice to Contractors" page, within the first paragraph, change the bid opening date from **January 24, 2007** to **January 31, 2007**. Make this change in pen and ink.

In the Bid Book on the "Notice to Contractors" page, within the second paragraph, in the sentence that states: "Questions received after 12:00 noon of Monday prior to bid date will not be answered" CHANGE the Monday to Friday. Make this change in pen and ink.

ADD "Special Provision, Electrical Schedule and Details" dated January 16, 2007 one page total.

ADD "Special Provision Wash Bay" dated December 8, 2006 two pages total.

REMOVE the existing "Special Provision, Plumbing Fixtures and Materials" dated December 8, 2006 one page total and REPLACE with the attached updated "Special Provision, Plumbing Fixtures and Materials" dated January 5, 2007 one page total.

In "Division 8, Doors, Windows, Glass" REMOVE the existing "Section 0809 Overhead Doors", two pages total and REPLACE with the attached updated "Section 0809 Overhead Doors", dated January 8, 2007 three pages total.

In "Division 8, Doors, Windows, Glass" REMOVE the existing "Section 0810 Doors and Frames", two pages total and REPLACE with the attached updated "Section 0810 Doors and Frames", dated January 8, 2007 two pages total.



REMOVE in its entirety the existing "Division 13, Pre-Engineered Metal Building System", ten pages total added in amendment 2 and REPLACE with the attached updated "Division 13, Pre-Engineered Metal Building System", dated January 10, 2007 ten pages total.

In Division 16, Electrical under Section 16401 Electrical Work, in sub-section 1.05 titled: "Applicable Standards, Permits and Codes" within the first paragraph that begins: "The installation shall comply..."DELETE the following word "Fairfield" and REPLACE it with the word "Topsham". Make this change in pen and ink.

On plan sheets:

ADD to the plans the attached 81/2 X 11 detail drawings titled: "A-1A Curb Wall Section" and "A-1B Curb Wall Section".

ADD the attached plan sheets 3, 4, 7, 8, 11 & 12 from the Topsham Maintenance Facility Site Work Project Contract, Pin No. 14062.10

REMOVE the existing plan sheet A-1C "Building Plan" and replace with the new updated "A-1D, Building Plan".

REMOVE the existing plan sheet A-2B, "Building Elevations" and replace with the attached updated "A-2C, Building Elevations".

REMOVE the existing plan sheet A-8 titled: "Building Schedules" and REPLACE with the attached updated A-8B: "Building Schedules".

DELETE any reference to Doors 22 and 23 showing glazing, these doors are to be solid. Make this change in pen and ink.

On plan sheets A-1D titled: "Building Plan" and P-3 titled: "1st and 2nd Floor Hot and Cold Water Piping Plan & Details" ADD an emergency eye wash station with a water heater, mixing valve and associated piping in the wash bay and ADD a wash fountain and associated piping in the shop area. Make these changes in pen and ink.

On plan sheet A-5A titled: "2nd Floor Mezzanine, Foundation Plan and Section, Section C-C" ADD the following note. "Stair treads are to have an approved non-skid surface." Make this change in pen and ink.

On plan sheet E-3B "Building Lighting Plan" DELETE in its entirety Note 1 that begins: "All light fixtures in garage bays..." and REPLACE with the following updated Note 1 that reads: "Two thirds of the fixtures in the garage bays, shop area and mezzanine shall be high bay fixtures. One third of the fixtures in the garage bays, shop area and mezzanine shall be high bay fixtures with quartz restrike. Fixture spacing shall be approved by the Department. Fixtures in the wash bay shall be 8' Vapor Tight Industrial. Fixtures are specified in Special Provision Electrical Schedule and Details." Make this change in pen and ink.

On plan sheet E-3B "Building Lighting Plan" DELETE in its entirety Note 2 that begins: "All light fixtures in office..." and REPLACE with the following updated Note 2 that reads: "All light fixtures in office area are to be 4 lamp 40 watt florescent fixtures with acrylic lenses." Make this change in pen and ink.

On plan sheet E-3B "Building Lighting Plan" DELETE in its entirety Note 3 that begins: "All outdoor fixtures..." and REPLACE with the following updated Note 3 that reads: "All outdoor fixtures are to be 250 watt sodium exterior with photo cell activation. Photo cell to be installed on north side of building." Make this change in pen and ink.

On plan sheet E-3B "Building Lighting Plan" ADD Note 8 that reads: "Compressor 240 volt. Refrigerator 20 amp. Air Handler 240 volt." Make this change in pen and ink.

On plan sheet E-3B "Building Lighting Plan" DELETE the twelve light fixtures shown in each bay of the garage bays, wash bay and shop area and REPLACE with six light fixtures in each bay of the garage bays, wash bay and shop area. Make this change in pen and ink.

On plan sheet H-7 "Manifold Piping Plan" under "Notes" in Note 5 that begins: "Oil Tank to be an upright..." change it to read: "Oil Tanks to be three upright...". Make this change in pen and ink.

On plan sheet H-7 "Manifold Piping Plan" The oil tank shelter shall be 16' x 8' and hold three 330 gallon tanks. Make this change in pen and ink.

The following questions have been received.

Question: What is the voltage and capacity of the Electrical Service?

Response: See attached Special Provision, Electrical Schedule and Details added earlier in this amendment.

Question: Is it the intent of the drawing to show that the Electrical Primary feed is already within the property boundaries and stops where the bold line on the drawing begin? (Bef. drawing E. 1)

(Ref: drawing E-1)

Response: The contractor's work will begin where the existing PIN 14062.10 Topsham Maintenance Facility Site Work Project ends. Please see revised Special Provision Section 16410 Electrical Work, 2.15 "Electrical Service and Distribution System"

included in Amendment 2 and plan sheets 3 and 4 from the site work contract added earlier in this amendment.

Question: Who is to provide the Transformer Pad?

Response: The contractor.

Question: No exterior light locations are shown. Are these locations to be at Electrical Contractors discretion?

Response: Exterior lights are shown on sheet E-3B included in Amendment 2.

Question: Should window 11 have a fire shutter?

Response: Window 11 is a 1 hour fire rated window not to exceed 1296 square inches.

Question: Door 22/23 are drawn on MZ-2 with glass but door schedule says solid?

Response: See change made earlier in this amendment.

Question: Door 19/20/21/26/27 is drawn with 24" x 24" wired glass. Maximum wire glass in a fire rated door is 100% wire inches- 10" X 10" or 4" x 25"

Response: Door 26 is to be fire rated and 10" square glass shall be used. See attached plan sheet A-8B.

Question: Closers or self closing hinges are required on all fire doors but are not listed in hardware sets.

Response: Closers or self closing hinges are to be included. See revisions to Division 8, Doors, Windows, Glass under section 0810 Doors and Frames.

Question: Are doors 26/27 fire rated?

Response: Door 26 is fire rated. See attached plan sheet A-8B.

Question: Door 18 is listed as a 16 X 14 but drawn on A2 & A7 as a 12' x 12'?

Response: Door 18 is 12' x 12'. See plan sheets A-2B and A-7A included in Amendment 2.

Question: Door 8 in the wash bay do you need a car wash?

Response: No.

Question: Spec calls for low clearance track and plans show 15' 8 7/16 on sheet MZ-Z, if we can install with standard lift in that amount of headroom can we delete the low headroom tracks?

Response: Standard door lifts can be used.

Question: Spec calls for (17) pass doors count 16 on the plans unless door 28 counts as 2.

Response: There are 16 pass doors. Please see revisions to Division 8, Doors, Windows, Glass under section 0810 Doors and Frames earlier in this amendment.

Question: Spec on the overhead doors is calling for an insulated pan door. May we quote a foamed-in place "R" 14 door instead; Model Therma-seal by Raynor. This door has a much better "R" value better joint seals and a thermal break.

Response: Either a pan door or a foamed in place may be used. Please see revised Division 8, Doors, Windows, Glass under section 0809 Overhead Doors earlier in this amendment.

Question: Spec's calls for the overhead door vendor to install the mounting pads, typically these are done by the General Contractor.

Response: This work may be done by either.

Question: Spec calls for the slide lock with cylinders and night latch the type of operator specs will automatically lock the door down. If an additional lock is desired it should have an interlock switch to prevent damage to the door.

Response: Provide interlock switch. See revised Division 8, Doors, Windows, Glass under section 0809 Overhead Doors earlier in this amendment.

Question: Typically on ME DOT jobs there are three items that are not shown on these plans

- a) Double end stiles on the overhead doors.
- b) One row of insulated glass on the overhead doors.
- c) Radio transmitter for the overhead doors.

Response: Include double end stiles on the overhead doors, one row of insulated glass on the overhead doors and radio transmitters for the overhead doors. See revised Division 8, Doors, Windows, Glass under section 0809 Overhead Doors earlier in this amendment.

Question: Window 10 is scheduled as an Anderson casement window on A-8, is that the fixed window with pass thru & speak hole specified in 0885 glass & glazing?

Response: Yes.

Question: I need an address for the jobsite?

Response: Adjacent to 45 Village Drive, Topsham, Maine. The web site can be found at www.state.me.us/mdot/contractor-consultant-information/contractor_cons.php.

Question: Can't find reference to where existing Pin 14062.10 work ends and 14062.11 begins on prints.

Response: Refer to the attached sheets 3 and 4 of plans for project 14062.10 but field modifications have been made to project 14062.10.

Question: Division 16 electrical general section 16401 2:15 electrical service and distribution system states all cost chargeable by the utility company for service shall be obtained by the sub-contractor and included in his bid.

Response: Please see revised Special Provision Section 16410 Electrical Work, 2.15 Electrical Service included in Amendment 2 near the bottom of the third page of Amendment 2 and the attached sheets 3 and 4 of plans for project 14062.10 in this amendment.

Question: We received Amendment No 2 today for the above reference project; however it is still unclear what the scope of work regarding site work is for this job. I understand that excavation and backfill of the building is to be included but other aspects like grading, utilities, parking lot, construction and paving are still uncertain. Amendment

No 2. instructs us to refer to PIN 14062.10 which we do not have, is this plan set still available?

Response: Plan sheets from PIN 14062.10 are attached.

Question: Are overhead doors electric?

Response: Yes.

Question: Circulation fans are they electric/who supplies and installs?

Response: Circulation fans are electric. They will be supplied and installed by the Contractor or their sub-contractor.

Question: One phase or 3 phase size feed required for compressor, refrig. unit and air handler?

Response: Compressor 240v, Refrig 20 amp 110v, Air Handler 240v. See attached Special Provision, Electrical Schedule and Details added earlier in this amendment.

Question: Electrical Panels: How Many? What size?

Response: See attached Special Provision, Electrical Schedule and Details added earlier in this amendment.

Question: Are the office area fixtures to be acrylic lenses?

Response: Yes. See revised Note 2 on plan sheet E-3B added earlier in this amendment.

Question: Are the eight foot fixtures in the mezzanine and in the front offices the same fixtures as the shop area?

Response: See attached Special Provision, Electrical Schedule and Details and revised notes on plan sheet E-3B added earlier in this amendment.

Question: Is the contractor to build the benches in the shop area?

Response: No.

Question: Amendment No. 2 calls for a roof R-value of R-30. On the plans it calls for roof R-value of R-38. Which is it?

Response: Drawings are correct. See attached revised Division 13, Pre-Engineered Metal Building System, subsection 2. provided earlier in this amendment.

Question: Is there an interior gutter on the eaves of this building?

Response: No.

Question: Drawings show eave height of 18'6". Amendment No. 2 calls for 24' clear?

Response: Drawings are correct. See attached revised Division 13, Pre-Engineered Metal Building System provided earlier in this amendment.

Question: Does the exterior wall get metal framing? Drywall? Is it limited to the office? Mezzanine? Warehouse? Are the first floor walls framed with metal studs? Do they get insulation? What Type? Do all interior walls get gypsum board? Define which ceilings get a metal grid framing?

Response: See "Notes" on attached plan sheet A-8B added earlier in this amendment.

Question: Specifications show a 1/2:12 slope and drawings show 1:12 slope.

Response: Drawings are correct. See attached revised Division 13, Pre-Engineered Metal Building System provided earlier in this amendment.

Question: Section 2.04 of specs imply an insulated panel but section 2.09 shows blanket insulation.

Response: Building is to be insulated with blanket insulation. See attached revised Division 13, Pre-Engineered Metal Building System provided earlier in this amendment.

Question: Specifications show ridge vents, but none are on the drawings.

Response: Building design does not require ridge vent.

Question: Drawings on the south elevation show a window where a main frame column is.

Response: The window has been removed.

Question: Elevations on the drawings appear to show panel on the 4' concrete wall. Is this correct?

Response: Yes. See attached Curb Wall Sections drawings provided in this amendment.

Question: There is trim band on the endwalls going from eave to eave. What is this for and is it required?

Response: It is for building enhancement and will be included.

Question: Is there a spec for the wash bay curtain?

Response: Yes. See attached Special Provision, Wash Bay Curtain provided earlier in this amendment.

Question: Does curtain extend to the roof?

Response: No.

Question: Is the curtain part of the bid?

Response: Yes.

Question: On drawing A-2, the north elevation has a detail that reads" 4'- 4 ¹/₂' curtain wall behind sheathing." What does this mean? Please provide detailed cross section.

Response: See attached Curb Wall Sections drawings provided in this amendment.

Question: Is this project tax exempt?

Response: Yes. See Standard Specification 108.6

Question: Is the general contractor responsible for the cost of quality control testing? The contract agreement (A. the work) contradicts the specifications. Is the general

contractor responsible for the cost of the building permit, impact fees, utility connection fees?

Response: The Contractor and the Department shall work cooperatively. The contractor is responsible for all aspects of the quality of construction. The Department is responsible for ensuring that the project meets the contract requirements. Quality Assurance and Control described in Divison 1, Section 0140 Quality Control will be performed and paid for as described. All other quality control inspection, testing or documentation will be the responsibility of the Contractor.

Question: Where are the full size set of revised plans based on amendment 2 dated December 28, 2006? Attached to that amendment was the revised 11" x 17" plans. This is insufficient for a project of this scale.

Response: For the plan holders that purchased a full size set of plans, we will be sending a replacement full size set of the updated plans.

Question: Is there any flooring for the stairs?

Response: Yes. See plan sheet A-5A Section C-C and note added to plan sheet A-5A provided earlier in this amendment.

Question: Is there any cove base for the walls?

Response: Yes. See attached plan sheet A-8B.

Question: Is there going to be more than 1 vinyl tile color or a pattern in the floors?

Response: No.

Question: Is the basis of payment monthly progress payment minus retainage?

Response: Yes.

Question: Page A-8 finish schedule indicates 2 layers of 5/8 at walls. Plans call for 1 hour walls which are 1 layer 5/8. Please clarify if one hour or two layers are wanted on walls.

Response: See one hour wall section and schedule on attached plan sheet A-8B.

Question: Please provide a list of bidding general contractors.

Response: A list of planholders can be found a <u>www.state.me.us/mdot/comprehensive-list-projects/ph14062.11.htm</u>.

Consider these changes and information prior to submitting your bid on January 31, 2007. \wedge

of chille Sincerely,

Scott Bickford Contracts & Specifications Engineer

Topsham 14062.11 Highway Maintenance Garage January 16, 2007

SPECIAL PROVISION ELECTRICAL SCHEDULE AND DETAILS

The following materials or approved equal shall be furnished and installed.

Electrical Service shall be 240 volt, single phase, 400amp.

There shall be two panels.

All wiring, boxes, fixtures, etc. within the wash bay and adjacent to wash bay shall be suitable for a wet location.

Manufacturer	Catalog	Description	Mounting	Voltage	Watts	Type	Notes
	Series						
	Number						
METALUX	8TVT2 - 232 - DR - 120 - EB8 - WL	8" Vapor Tight Industrial	chain	110	32	T8 3000K	1
LUMARK	MHHBPD22M - 400MT	High Bay Fixture	pendant	240	400	MH	
LUMARK	MHHBPD22M - 400MT - EM	High Bay Fixture	pendant	240	400	MH	2

LUMINAIRE SCHEDULE

(1) FIXTURE HAS 2 LAMPS IN CROSS SECTION

(2) QUARTZ RESTRIKE SHALL BE 100W

Topsham 14062.11 Highway Maintenance Garage December 8, 2006

SPECIAL PROVISION Wash Bay

<u>Description</u> The work shall consist of the furnishing and installing the wash bay curtains, accessories and mounting hardware.

<u>Materials</u> Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

Drapery and Curtain Hardware and Tracks:

Goff's Enterprises, Incorporated 1228 Hickory Street Pewaukee, WI 53072 800-234-0337 262-691-4998 262-691-3255 Fax Email <u>sales@goffscw.com</u> www.goffscurtainwalls.com

<u>Curtain Track Hardware</u> Provide the following components for a complete curtain wall assembly:

Track: 16 gage galvanized steel channel track similar to Goff's HW150.

Track Splice: 16 gage galvanized steel similar to Goff's HW151.

Roller Hooks: Spaced 12" on center similar to Goff's HW157 (steel).

Overlapping Curtain Track Trolley: Similar to Goff's HW300.

End Mount Track Bracket: 16 gage galvanized steel similar to Goff's HW153.

Hanging Track Splice: 16 gage galvanized steel with threaded rod hanging bracket similar to Goff's HW161.

Hanging Track Bracket: 16 gage galvanized steel with threaded rod hanging bracvket similar to Goff's HW167.

Universal Track Connector: Similar to Goff's HW100

Installation Fasteners: Manufacturer's standard non-corrosive fasteners and anchors.

Curtain

Upper vinyl panel shall be 14 oz/sy (min) vinyl coated polyester.

Lower vinyl panel shall be 18 oz/sy (min) vinyl coated polyester with zinc plated chain sewn into the bottom edge hem; 28" high.

Middle panel shall be 20 mil (min) double polished clear vinyl; 52" high.

Polyester scrim at upper and lower panels shall be 9 x 9 x 1000 denier.

Curtain assembly shall comply with NFPA-701.

Vinyl Polyester Panel Temperature range: -40 degrees F to 180 degrees F.

Clear Vinyl Panel Temperature Range: -20 degrees F to 150 degrees F.

Stitching: All panels shall be secured together with double-locked mildew and rot resistant thread.

Grommets: Brass, placed along top edge of curtain at 12" on center.

Curtain Panel Attachment: 2" wide strips of industrial hook and loop fasteners at meeting vertical edges.

Curtain Height: 16 feet

Curtain Width: Full depth of wash bay plus 5% (drape).

Color: As selected by the Architect from the Manufacturer's full range of 12 colors (min).

Accessories

Floor Ties: Anchor pan shall be 4" diameter galvanized steel with flip-up "D" ring.

Anchor Straps: Heavy duty vinyl straps sewn to lower curtain panel. Strap shall have a rubber buckle slide for height adjustment and a steel spring clip hook for attachment to the floor tie "D" ring.

Floor Sweep: Manufacturer's standard vinyl detachable strip anchored to the curtain with industrial hook and loop fasteners. Sweep shall be 12" high; full width of curtain panels.

Curtain Wall Cleaner: Manufacturer's standard proprietary liquid cleaner specifically formulated for cleaning all portions of the curtain.

Installation

Install curtain, hardware, and accessories according to manufacturer's written instructions. Install track level and plumb, and at the proper height and location in relation to fixed elements. Fix securely with clips, brackets, and anchors suited to type of mounting indicated. Walls, ceilings and structure shall be made suitable for track installation. Test operation of each unit to ensure unencumbered operation. Adjust units that do not operate smoothly.

Install curtain tie down anchors in concrete floor per manufacturer's instructions at 6'-0" on center (max). Coordinate installation requirements with concrete work.

Isolate metal parts of hardware from concrete or mortar to prevent galvanic action. Use tape, thick coating, or another method, as recommended by manufacturer.

Install sweep in accordance with manufacturer's printed instructions. Trim bottom edge of sweep to sloped profile of wash bay floor forming a cove style base at the curtain's bottom edge.

Topsham 14062.11 Highway Maintenance Garage January 5, 2007

SPECIAL PROVISION PLUMBING FIXTURES & MATERIALS

The following materials or approved equal shall be furnished and installed. Payment will be incidental to contract.

- 2- toilets-Kohler k-3427 Highline elongated w/open front seats
- 1- Urinal-Kohler k-5016 Dexter w/1 gallon flushometer valve
- 2- Lavatories ADA-Kohler k2027 18 x 16 Greenwich
- 2- K-1808 Brackets
- 2- K-15198-f faucets
- 2- K-8998 chrome traps
- 2- K13885 Drains
- 1- Kitchen sink K-3352 Undertone w/K-8801 strainer
- 1- K-15173-cp Coralais faucet
- 1- Mop sink-Fiat MSB 24 x 24 mop basin
- 1- Fiat 889 cc hanger
- 1- Fiat 830A basin fitting w/vacuum breaker
- 1 Fiat 832 AA hose & bracket

2- ADA Showers—AquaGlass Model 833941 equipped with Delta & Alson's fittings & chrome curtain rods.

- 2- Zurn 2" cast iron floor drains w/bronze strainer & nickel finish
- 2- floor drain trap primers
- 1- Zurn cast iron 4" cleanout floor cover bronze
- 2 ADA Handrails, Grab Bars 36" Bobrick B-5806
- 2 ADA Handrails, 42" Bobrick B-5806
- 1 -Drinking Fountain Halsey Taylor Model 5701 Wall Mount
- 2 Eye Wash Station Guardian Equipment G5026
- 2 Watts ¹/₂" MMV-US M1, Sweat Mixing Valve
- 1 Ariston Electric Water Heat Model GL2.5
- Wash Fountain Bradley Classic Semi Circular with 9" deep bowl Terrazzo Model WF2604

Topsham 14062.11 Highway Maintenance Garage January 8, 2007

SECTION 0809 OVERHEAD DOORS

0809.01 GENERAL

The Contractor shall furnish and install all material and equipment necessary to complete the installation of the overhead doors. All work shall be done as herein specified and as shown on the drawings.

0809.02 MATERIALS

DOOR SECTIONS: Sections shall be full 2" thick, roll formed from commercial quality hot dipped galvanized steel per ASTM A-525 and A-526. Each section shall have tongue and groove joints for weather tight closure between sections. The sections shall have 1 ¹/₂" thick rigid foam isocyanurate insulation with a U-factor of .08 or an approved equal foamed in place The door shall be Series S-20 steel industrial door as manufactured by Raynor Manufacturing Company, Dixon, Illinois or approved equal. See Door schedule on plans for size of each door.

Enclose open section with not less than 16 gauge galvanized steel channel end stiles welded in place. Provide not less than 16 gauge galvanized intermediate stiles, cut to door section profile, spaced at not more than 48 inches (1200 mm) o.c., and welded in place. Reinforce bottom section with a continuous channel or angle complying with bottom section profile and allowing installation of astragal. Reinforce sections with continuous horizontal and diagonal reinforcement, as required to stiffen door and for wind loading. Provide galvanized steel bars, struts, trusses or strip steel, formed to depth and bolted or welded in place.

Provide one row of tempered insulated glass windows. Set glazing in vinyl, rubber, or neoprene glazing channel for metal-framed doors.

SPRING COUNTER BALANCE: Heavy duty oil tempered wire torsion springs on continuous ball bearing cross header shaft. Galvanized lifting cables with minimum safety factor 7 to 1.

FINISH: Door exterior to be precoated with two (2) coats of baked on polyester enamel finish over epoxy primer. Interior to have baked on grey polyester enamel.

FRAMES: Door jams and mounting pads shall be furnished as shown on drawings.

GARAGE DOOR OPENER:

- 1. Standard Hardware
- 2. Jackshaft type, with V-belt primary reduction, chain intermediate reduction, and roller chain drive.
- 3. Automatic door opener Model RGJ, ¹/₂ H.P. motor, 208V, single phase
- 4. Door opener will be equipped with a safety device to stop closure of door if doorway is obstructed, factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, remote-control stations, control devices, integral gearing for locking door, and accessories required for proper operation.
- 5. Provide hand-operated disconnect or mechanism for automatically engaging sprocketchain operator and releasing brake for emergency manual operation while disconnecting motor, without affecting timing of limit switch. Mount disconnect and operator so they are accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.
- 6. Radio Control: Provide radio control system consisting of the following:
 - 1. 3-channel universal coaxial receiver to open, close, and stop door, 1 per operator.
 - 2. Multifunction remote control.
 - 3. Remote antenna mounting kit.

HARDWARE: All hinges and brackets shall be galvanized steel. Track rollers shall be hardened steel ball bearing with a minimum of 10 balls of 1/4" diameter per roller. Door shall be adequately reinforced with steel streets as recommended by the manufacturer. The lock shall be a slide lock with five pin tumbler cylinder with night latch. Lock bar shall be provided for additional interior locking. Where door unit is power operated, provide safety interlock switch to disengage power supply when door is locked. Provide reinforcement for hardware attachment.

Tracks: Provide manufacturer's standard heavy duty 3" minimum width galvanized steel track system, sized for door size and weight, designed for lift type indicated and clearances shown, and complying with ASTM A 653 (ASTM A 653M), for minimum G60 (Z180) zinc coating. Provide complete track assembly including brackets, bracing, and reinforcement for rigid support of ball-bearing roller guides for required door type and size. Provide galvanized steel track reinforcement and support members, complying with ASTM A 36 (ASTM A 36M) and ASTM A 123. Secure, reinforce, and support tracks as required for door size and weight to provide strength and rigidity without sag, sway, and vibration during opening and closing of doors. Support and attach tracks to opening with continuous angle welded to tracks and attached.

Push/Pull Handles: For push-up-operated or emergency-operated doors, provide galvanized steel lifting handles on each side of door.

WEATHERSTRIPPING: Continuous weather stripping shall be a combination of

vinyl and aluminum extrusion. Neoprene rubber jam seals shall be provided around the perimeter of the door.

WARRANTY: The complete door assembly shall have a one year warranty against defective material or workmanship.

0809.03 INSTALLATION

The installation of all overhead doors shall be done by qualified mechanics and shall be done according to the manufacturer's recommendations.

Install units and accessories accurately and neatly into their respective locations in accordance with final shop drawings and manufacturer's data and as herein specified. Doors shall be installed true, plumb and square, such that they remain open in any position.

Topsham 14062.11 Highway Maintenance Garage January 8, 2007

SECTION 0810 DOORS AND FRAMES

0810.01 GENERAL

The extent of doors and frames is shown on the drawings and schedules. Exact locations and sizes shall be confirmed by the Contractor. The Contractor shall furnish doors, frames, accessory items as indicated on the drawings and / or specified herein.

Shop drawings for the fabrication and installation of doors and frames shall include details of each door and frame type, elevations of floor design types, conditions at openings, details of construction, location and installation requirements of finish hardware and reinforcements, details of joints and connections, anchorage and accessory items.

Deliver doors and frames cartoned or crated to provide protection during transit and job storage. Inspect doors and frames upon delivery for damage. Minor damages may be repaired provided the finish items are equal in all respects to new work and acceptable to the Engineer; otherwise, remove and replace damaged items as directed.

Store doors and frames at the building site under cover. Place the units on at least 4" high wood sills or on the floors in a manner that will prevent rust and damage. If the cardboard wrapper on the door becomes wet, remove carton immediately. Provide a 1/4" space between stacked doors to promote air circulation.

The Contractor must examine the substrate and conditions under which the doors and frames are to be installed and notify the Engineer in writing of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.

0810.02 MATERIALS

The following items shall be manufacturer's standard:

- 1. Supports and anchors
- 2. Inserts, bolts and fasteners
- 3. Shop applied paint
- 4. Weatherstripping

- 5. Silencers
- 6. Thresholds
- 7. Insulation

Doors and Frames:

Door Designation Description

Garage Entrance DoorSix (6) Steelcraft Steel, insulated unit 3' - 0" x 6' - 8" No glass panel

Interior Doors Ten (10) Steelcraft Steel

Door Accessories:

Finish doors complete with following accessories:

- A. Entrance Door
 - 1. Standard hardware
 - 2. 2 pairs of butts
 - 3. Mortised lock and keys
 - 4. Closer

B. Interior Doors

- 1. Standard hardware
- 2. 1 $\frac{1}{2}$ pairs of butts
- 3. Closer on all fire rated doors

0810.03 INSTALLATION

Install units and accessories accurately and neatly into their respective locations in accordance with final shop drawings and manufacturer's data and as herein specified.

Topsham 14062.11 Highway Maintenance Garage January 10, 2007

DIVISION 13

PRE-ENGINEERED METAL BUILDING SYSTEM

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SECTION 13 PRE-ENGINEERED METAL BUILDING SYSTEM

PART 1 GENERAL

1.01 WORK INCLUDED

A. This section covers the work necessary to design, furnish, coordinate the details and construction with the concrete foundations, and install, complete, the prefabricated metal building specified herein.

1.02 GENERAL

A. Like items provided hereunder shall be the end products of one manufacturer in order to achieve standardization for appearance, operation, maintenance, spare parts, and manufacturer's service.

B. See CONDITIONS OF THE CONTRACT and Division 1, GENERAL REQUIREMENTS, which contain information and requirements that apply to the work specified herein and are mandatory for this project.

1.03 STANDARDS

A. Meet design, fabrication, and erection requirements specified herein and as applicable in following documents:

Structural Steel for Buildings".

2. AISI "Specification for the Design of Light-Gauge Cold Formed Steel Structural Members".

3. AISI "Specification for the Design of Cold-Formed Steel Structural Members".

- 4. AISC "Code of Standard Practice for Steel Buildings and Bridges".
- 5. MBMA "Metal Building Systems Manual".
- 6. Steel Door Institute.

7. Architectural Aluminum Manufacturers Association.

8. Applicable sections of American Welding Society's "Structural Welding Code"

AWS Dl.1 relating to welding procedures.

9. International Building Code

1.04 SUBMITTALS

A. Submittals shall be made in accordance with Section SUBMITTALS in Division 1, GENERAL REQUIREMENTS. In addition, the following specific information shall be provided:

1. Product Data:

a. Manufacturer's Standard Details and Structural Calculations: Clearly mark those portions that apply to specific project and those parts that do not apply. b. Manufacturer's Literature and Technical Data:

Indicate deviations from Drawings or Specifications required for complete installation of proposed prefabricated metal building.

c. Painting system: Specifications including paint manufacturer's name, product trade-name, and preparation for shop and field coats.

2. Shop Drawings:

a. Show materials, components (including doors and other accessories), finishes, fastenings, method of joining, sealants, and structural calculations to include as a minimum these Drawings:

1) Foundations and Footings: Dimensions: Revised as necessary from that shown on Contract Drawings.

Details of Anchorages: Show coordination with building's foundation requirements.

Anchor Bolt Plan: Anchor bolt, shear angle, and baseplate details, including all sizes and dimensions.

2) Building Roof Plan: Show size and location of structural members and bracing.

3) Elevations and Rigid Frame details: With building elevations, show size and location of wall structural members, bracing, and structural wind columns as required.

4) Calculations: Complete structural stress and deflection analysis of structural components and connections; consider prying action of bolts should proposed design use bolted moment-resistant connections in main frames.

5) Doors. Other Openings, and Accessories: Provide details.

3. Samples:

a. Color Samples: Submit for components requiring color selection.

4. Quality Control Submittals:

a. Installation by Specialist:

1) Documentation of past 5 years' experience record for erection of specified manufacturers' prefabricated metal buildings or equal, to include project name, location, type and date completed, building manufacturer and owner's contact person.

2) Certification of licensing by manufacturer.

b. Certification of Compliance: By manufacturer certifying product compliance with requirements specified herein.

c. Manufacturer's Written Instructions: Shipping, handling, storage, protection and erection or installation of building or components.

d. Manufacturer's written standards for manufacturing.

e. Manufacturer's certification or proof of current membership in Metal Building Manufacturer's Association (MBMA).

5. Contract Closeout Submittal:

a. Manufacturer's certification of proper installation.

b. Operations and Maintenance Manual.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Complete fabrication and prepare for shipment knocked down, including necessary crating or bundling.

B. Ship in accordance with manufacturer's instructions.

C. Store, handle, and protect building components, prior to and during erection or installation, in accordance with manufacturer's written instructions, as approved.

1.06 WARRANTY

A. Provide extended warranties for manufacturer's standard paint film as specified below:

1. Paint film on Roof Panels: Will not crack, check, blister, peel, flake, chip, or lose adhesion for a period of 20 years from date of final acceptance, under normal weather and atmospheric conditions at the project site; and

2. Paint film on Wall Panels: Will not:

a. Chalk in excess of ASTM D659, No. 8 rating, within 20 years from date of final acceptance.

b. Fade more than **5** NBS units within 10 years from the shipment date.

c. Crack, check, blister, peel, flake, chip, or lose adhesion within 20 years from date of final acceptance, under normal weather and atmospheric conditions at the project site.B. The plant where the building components are manufactured shall be certified by AISC for Category MB Metal Buildings.

PRODUCTS

PART 2

2.01 GENERAL

A. The use of the manufacturer's name and model or catalog number is for the purpose of establishing the standard of quality and general configuration desired only. Other manufacturer's equipment will be considered in accordance with the General Conditions.

B. Provide manufacturer's standard components as required, unless otherwise specified.

2.02 DESIGN LOADS

Description Load

A. Steel Building Own dead load

B. Roof Snow Load 60 psf (pounds per square foot)

C. Design Wind Load 98 mph, Exposure B, importance factor 1.0

D. Earthquake Load Seismic Zone 2

E. Design roof system including support framing, roof panels, and fasteners for uplift wind loads to meet requirements of the BOCA National Building Code/1999, the 2003 version of the International Building Code and all other federal, state and municipal requirements.

F. No live load or snow load reductions are allowed.

2.03 MANUFACTURERS

A. Varco-Pruden Metal Building Systems, Pine Bluff, AR.

B. Butler Building Systems, Galesburg, IL.

C. A & S Building Systems, Inc., Caryville, Tenn.

D. Or equal.

2.04 BUILDING DESCRIPTION

- A. Framing System: Steel Frame.
- B. Column Locations: 20' o.c. mm. spacing, see plans.
- C. Minimum Roof Slope: 1:12
- D. Bracing: As required by the manufacturer. At minimum, provide one braced

wall bay, brace the corresponding roof bay, and provide wind columns at all column locations in the wall containing multiple vehicle doors.

- E. Interior Clear Height: 18'6".
- F. Roof Panels:
- 1. Exterior: Standing seam.
- 2. Interior: Smooth steel.
- G. Wall Panels:
- 1. Exterior: Ribbed steel.
- 2. Interior Smooth steel.
- H. Insulation: Blanket Insulation

2.05 FOUNDATION AND FOOTINGS

- A. Concrete Work: As specified in Division 3, Concrete.
- B. Anchor Bolts: As required by building manufacturer and building designer.

2.06 FRAMING

A. Structural:

- 1. Steel: ASTM A36 minimum.
- 2. Factory Primer: Compatible with finish coat as specified herein.
- B. Wall Openings:
- 1. Stiffen with flange channels as provided by building manufacturer.
- 2. Provide accessory clips as required.

2.07 PANELS GENERAL

- A. Ribbed steel panel construction (exterior).
- B. Smooth steel panel construction (interior).
- C. Material:
- 1. Galvanized steel with roll-formed corrugations for structural stiffness and appearance.
- 2. ASTM *A525*.
- 3. Federal Specification QQ-SS-775A, Type 1, Class D.
- D. Finish:
- 1. Factory-applied baked enamel.

2. Color:

a. Interior: To match glazed concrete masonry units.

b. Exterior: Siding on top and trim is to be Moss Green in color siding on bottom is to be Dark Green, as approved by the Maine Department of Transportation. Roof is to be Dark Green in color, as approved by the Maine Department of Transportation. Overhead doors are to be white. Manufacturer's as shown on the exterior finish schedule.

E. Panel Design: Expansion and contraction capability for ambient temperature range of 120 degrees F without buckling, opening of joints, or other detrimental effects.

F. Wall Panels, 26-gauge:

1. Insulated.

- 2. One-piece from base to building eave or door guide channel with factory-cut openings.
- 3. Major exterior and minor interior face corrugations.
- G. Roof Panels. 24-gauge:

1. Insulated.

2. Type: Standing lock seam.

3. One-piece from eave to ridge except factory-punched penetrations at cave structural.

4. Maximum length to minimize endlaps with major corrugations along panel sides.

5. Provide thermal spacer blocks over purlins.

H. Sidelaps: Minimum one full corrugation, caulked and fastened as follows:

1. Wall Panels: Self-tapping screws.

2. Roof Panels: Folded lock seam.

1. Endlaps: 6 inches minimum.

J. Panel Joints: Self-sealing.

K. Frame Connections: Provide panel-to-panel and panel-to-structural connections with self-tapping screws; movable clip folded into lock seam; maintain weathertight seal.

L. Roof Ridge Panels:

1. Same configuration as roof panels.

2. One-piece factory-formed to fit roof slope and match roof.

3. Extend beyond first purlin from centerline of building.

M. Closure Sections: Provide to seal building corners, gables, and other panel intersections.

N. Insulation: Flame spread less than 25; ASTM E84.

2.08 TRANSLUCENT SKYLIGHT PANELS N/A

2.09 METAL BUILDING BLANKET INSULATION

A. As specified in Outline Specification.

B. Thickness: (Walls) 6-1/4 inch R19 or better.

(Roof) 6-1/4 inch R19+4 inch Ru zTotal R30

C. Vapor Barrier:

1. 2-mil thick white vinyl vapor barrier backing.

2. Water Vapor Permeance Rating: 0.1 maximum; ASTM E96, Procedure A.

D. Application Area: Underside of roof panels and inside of wall panels.

2.10 INSULATED METAL DOORS AND FRAMES A. See outline Specification.

2.11 ROLL-UP DOOR A. See Outline Specification.

2.12 GLAZING N/A

2.14 FIXED LOUVERS

A. Per manufacturer's recommendations.

2.15 HEATING

A. See Outline Specification.

2.16 TRIM

A. Factory-formed and factory-painted.B. Include ridge cap, rake trim, simple eave trim, panel side trim, corner trim, door trim, and other trim as necessary.

2.17 MISCELLANEOUS

A. Provide panel fasteners, weather sealing compounds, roofjacks, roof curbs, bolts, nuts, gaskets, and other necessary components in accordance with manufacturer's instructions.

2.18 PAINTING

A. See interior and exterior finish schedule.

2.19 FABRICATION

A. Factory fabricate to manufacturers written standards and AISC Specification for the Design. Fabrication, and Erection of Structural Steel Buildings, and as specified herein.

B. Building Parts: Accurate and true to dimension to facilitate building erection.

2.20 MANSARD

A. Mansard to be 4211 high.B. Mansard to be insulated around internal gutter at eaves.

2.21 INTERNAL GUTTER

A. Internal gutter to be uninsulated on bottom and side toward interior of building.

B. Internal gutters to be connected to 3 6" PVC down spouts.

PART 3 EXECUTION

3.01 PREPARATION

A. Prior to performing work of this section, verify that work of other trades, as applicable, is complete for commencement of installation.

B. Obtain manufacturer's written instructions before commencing erection or installation.

3.02 FOUNDATION AND FOOTINGS

A. Provide as shown and as modified by building manufacturer selected.

B. Floor Slab: Minimum thickness 8".

C. Concrete Work: As specified in Division 3.

D. Anchor Bolts: Provided by building manufacturer and installed per building manufacturer's instructions and in accordance with these Specifications.

3.03 BUILDING ERECTION

A. In accordance with manufacturer's standards.

B. Structural Parts: No field cutting permitted.

C. Panels or Accessories:

1. Field Cutting or Patching: Not permitted unless otherwise approved by Engineer.

2. Approved Field Modification: Perform in manner not to impair appearance, weather tightness, or structural quality of material or structure.

D. Insulation: As specified in 2.09.

E. Insulated Metal Doors and Frames: As specified in 0810 DOORS AND FRAMES.

F. Roll-up Doors: As specified in 0810.

G. Electrical System: As specified in Division 16.

H. Field Painting: As per the Interior and Exterior Finish Schedule.

I. Replace or Restore Following to Original Condition:

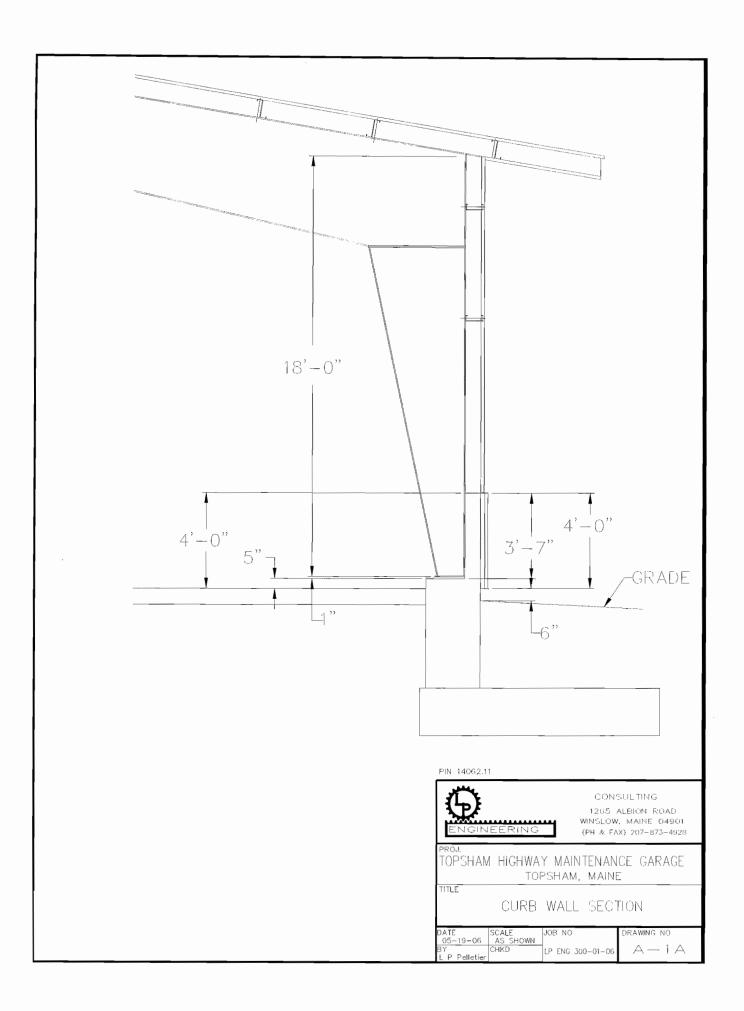
1. Surface finishes damaged prior to or during erection.

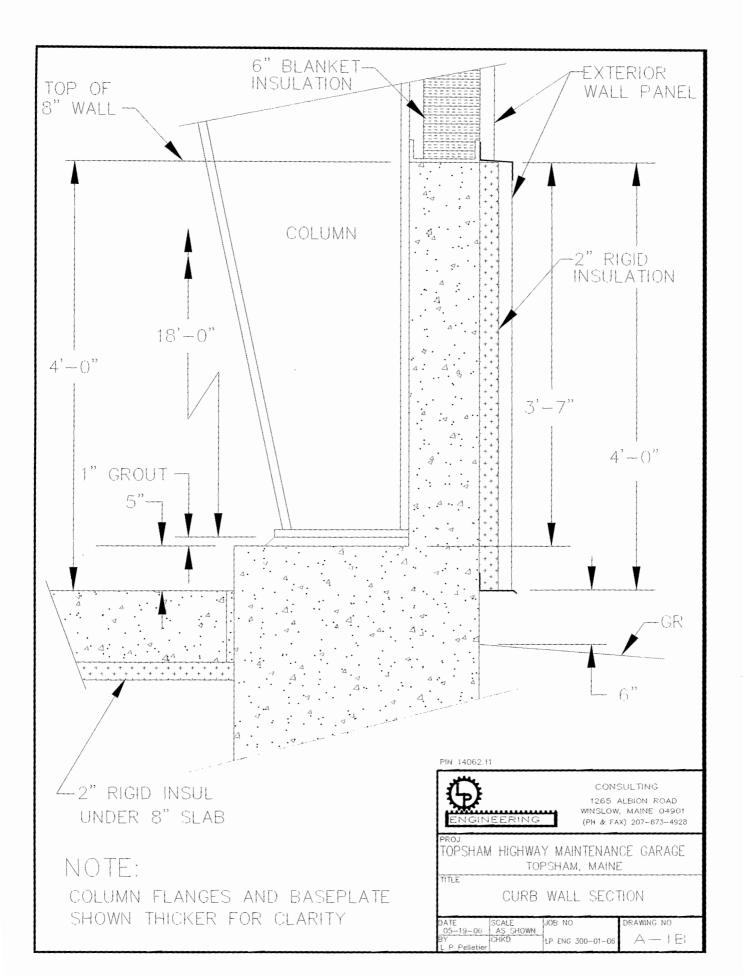
2. Components where material and workmanship does not meet specified requirements.

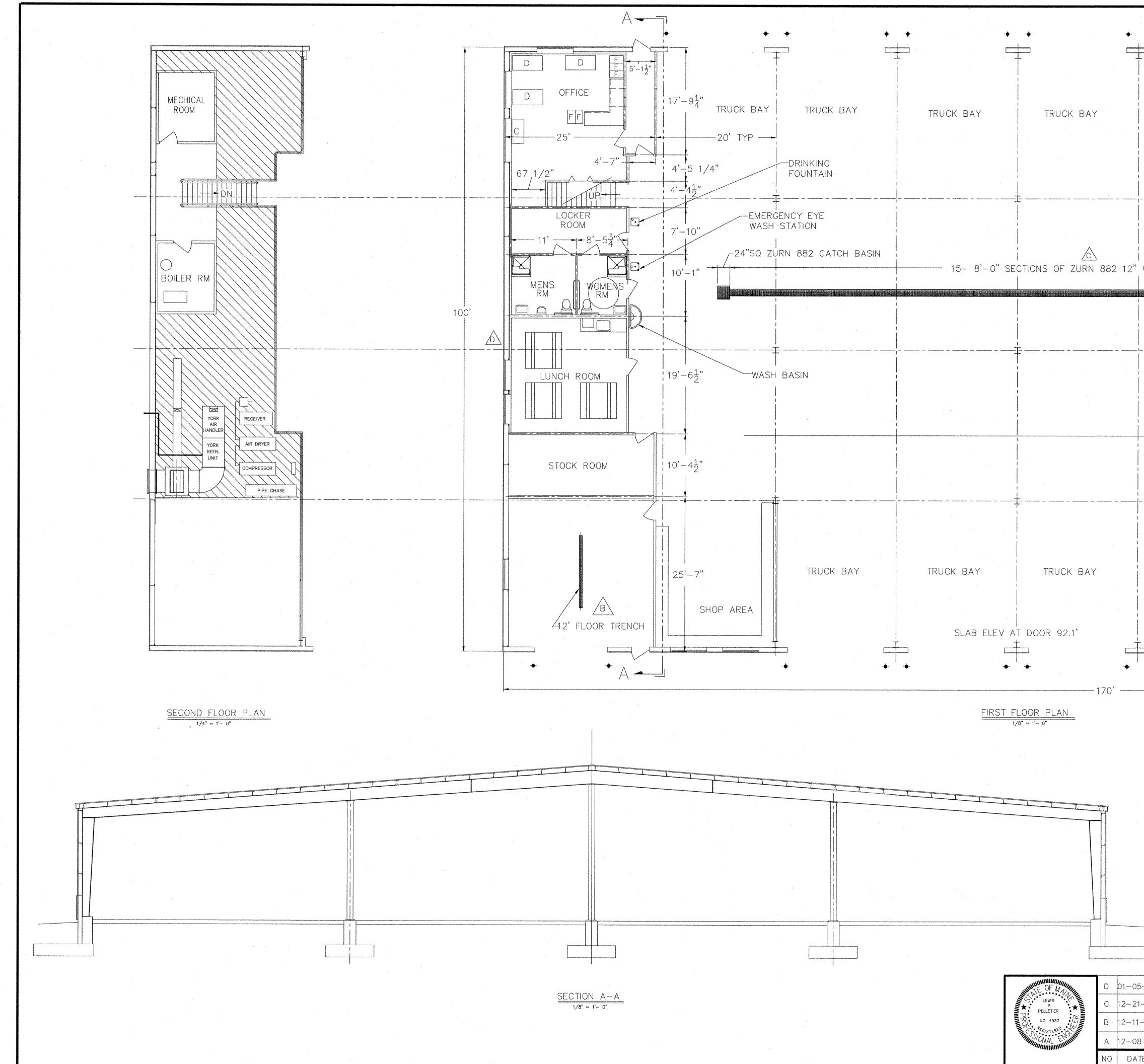
J. Minor Scratches, Dents, and Holes: Repair and paint with similar enamel of thickness and color to match original coating only if allowed by the Engineer.

3.04 FIELD QUALITY CONTROL

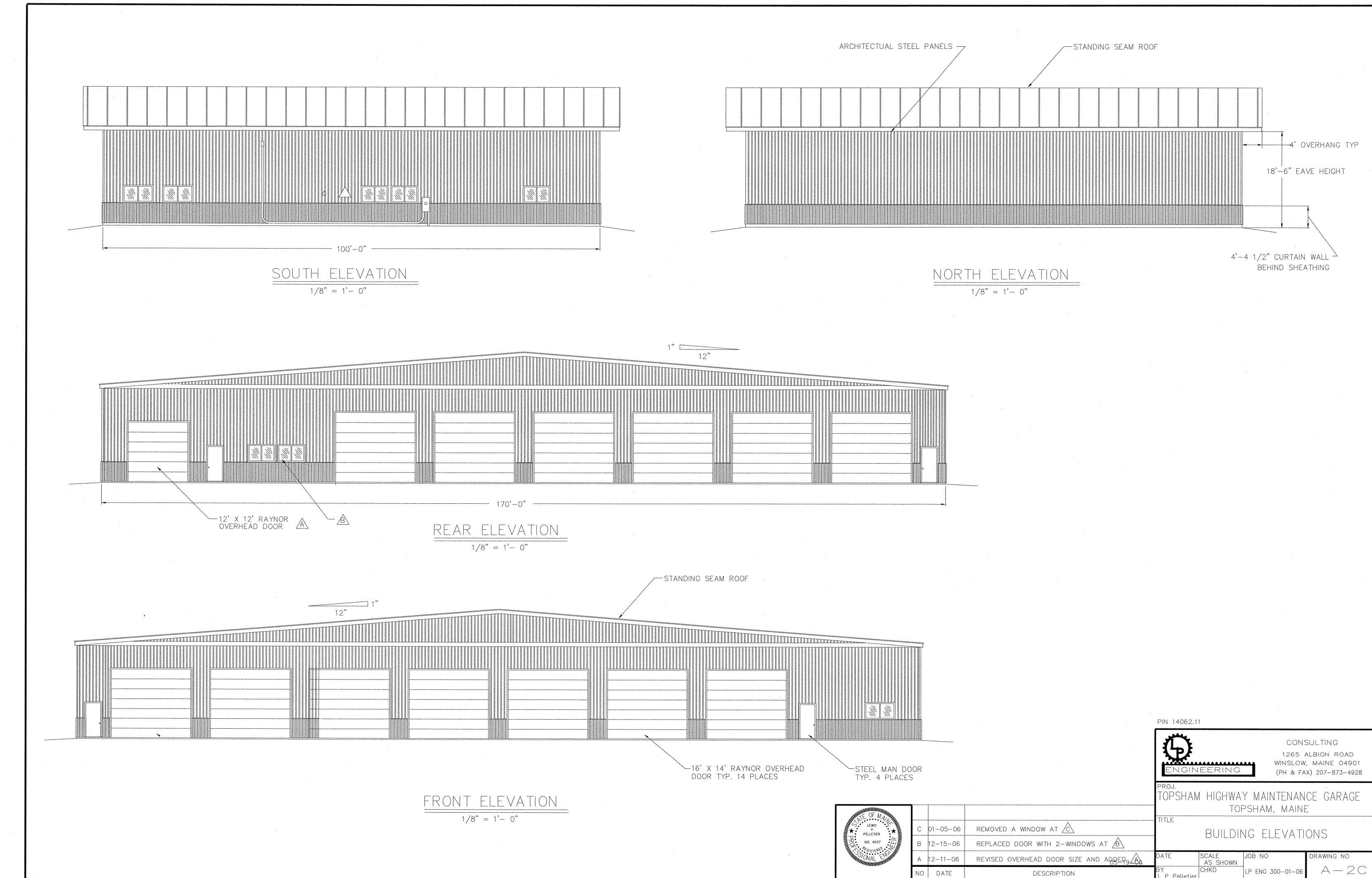
A. Manufacturer's Field Services: Furnish a minimum of 3 days of manufacturer's representative at jobsite for installation assistance, inspection, and certification of installation.



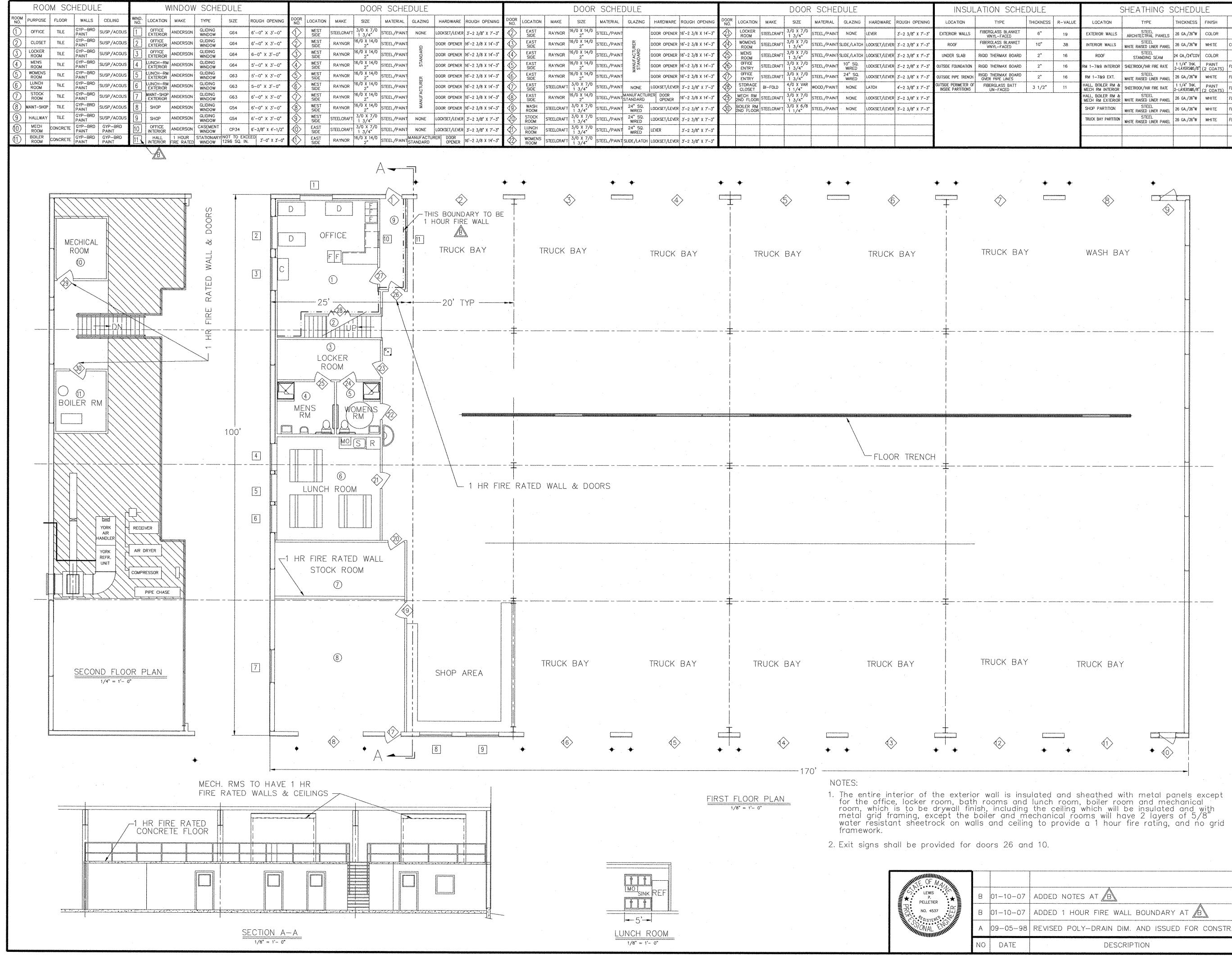




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	TRUCK BAY	TRUCK BAY	WASH BAY
a antonominan			
WIDE	PERMATRENCH		
	FLOOR TRENCH		RETRACTABLE A WASH BAY CURTAIN
	TRUCK BAY	TRUCK BAY	TRUCK BAY
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		<u>I</u>	PIN 14062.11
			CONSULTING 1265 ALBION ROAD WINSLOW, MAINE 04901 (PH & FAX) 207-873-4928
06	REMOVED A WINDOW AT		proj. TOPSHAM HIGHWAY MAINTENANCE GARAGE TOPSHAM, MAINE
-06	ADDED ZURN FLOOR TR	·	BUILDING PLAN
-06 E	ADDED NOTE A	Δ	DATE SCALE JOB NO DRAWING NO 05-19-06 AS SHOWN BY CHKD LP ENG 300-01-06 A-1D



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				Y MAINTENAN Psham, maine	
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-06	REVISED OVERHEAD DOOR SIZE AND ABBEP	DATE	SCALE AS SHOWN	JOB NO	DRAWING NO
E	DESCRIPTION	BY L P Pelletier	СНКД	LP ENG 300-01-06	A-2C

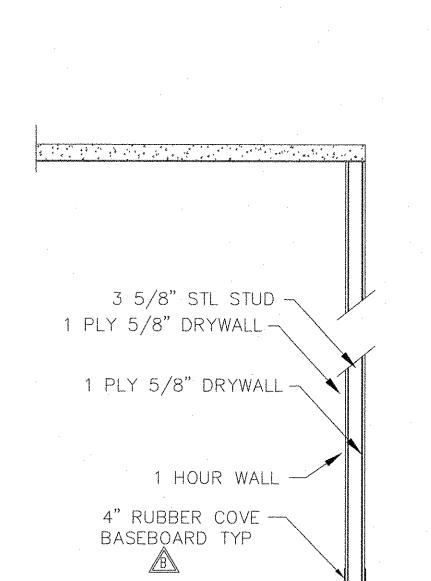


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ROUGH OPENIN	IG DOOR	LOCATION	МАКЕ	SIZE	MATERIAL	GLAZING	HARDWARE	ROUGH OPENING	DOOR NO. LOC	CATION MAK	e size	MATERIAL	GLAZING	HARDWARE	ROUGH OPENING	LOCATION	TYPE	THICKNESS	R-VALUE	LOCATION	TYPE	THICKNESS . FIN	SH EXTENT	LOCATION	TYPE	THICKNESS FIN	NSH	SUPPORT
3-2 3/8" X 7-	3" (2)	EAST SIDE	I	- 6	STEEL/PAINT		DOOR OPENER	16'-2 3/8 X 14'-3"		OCKER OOM STEELO		STEEL/PAIN		LEVER	3'-2 3/8" X 7'-3"	EXTERIOR WALLS	FIBERGLASS BLANKET VINYL-FACED	6*	19	EXTERIOR WALLS	STEEL ARCHITECTRAL PANELS	26 GA./36"W CC	OR ALL	HALL INTERIOR	SUSPENDED RECESS PANEL WITH 2HR FIRE RATING	5/8" THK. (CEIL SUS /HITE WI	PENDED GRID SUPPORT
16'-2 3/8 X 14'-	3" (3)	EAST SIDE	I	-	STEEL/PAINT		DOOR OPENER	16'-2 3/8 X 14'-3"	WO R	OMENS STEELC	RAFT 3/0 X 7/0 1 3/4"	STEEL/PAIN	T SLIDE/LATCI	I LOCKSET/LEVE	R 3'-2 3/8" X 7'-3"	ROOF	FIBERGLASS BLANKET VINYL-FACED	10"	38	INTERIOR WALLS	STEEL WHITE RAISED LINER PANEL	26 GA./36"W WH	TE CONCR. TO E	VE RM 1-7&9	SUSPENDED RECESS PANEL WITH 2HR FIRE RATING	W JO INK.	CEIL SUS MITE MI	PENDED GRID SUPPORT
16'-2 3/8 X 14'-	3" (4)	1	1 1	*-	STEEL/PAINT	1.7 6.3	DOOR OPENER	16'-2 3/8 X 14'-3"		ENS OOM STEELC	RAFT 3/0 X 7/0 1 3/4"				R 3'-2 3/8" X 7'-3"	UNDER SLAB	RIGID THERMAX BOARD	2."	16	ROOF	STEEL STANDING SEAM	24 GA./24"COV CC	OR ALL	BOILER ROOM	DILLINGON MITT I IN THE MAIL		HITE 1"X AINT 1"X	2" STRAPPING & JOIST
16'-2 3/8 X 14'-	3" (5)	EAST SIDE	Lorona and the second second		STEEL/PAINT	STAN	DOOR OPENER	16'-2 3/8 X 14'-3"		FFICE NTRY STEELC		STEEL/PAIN			R 3'-2 2/8" X 7'-3"	OUTSIDE FOUNDATION	RIGID THERMAX BOARD	2"	16	RM 1-7&9 INTERIOR	SHEETROCK/1HR FIRE RATE	1 1/4" THK. P/ 2-LAYERS@5/8" (2 (NT FLOOR TO CEIL	IG MECH ROOM	TWO LAYERS OF 5/8" THK SHEETROCK WITH 1 HR FIRE RATE	5/8" THK. W	HITE 1"X AINT 1"X	2" STRAPPING & JOIST
16'-2 3/8 X 14'-	3* 6	,	1 1	2	STEEL/PAINT	•••	DOOR OPENER	16'-2 3/8 X 14'-3"	<u> </u>	FFICE NTRY STEELC		STEEL/PAIN	1 24" SQ. WIRED	LOCKSET/LEVE	R 3'-2 3/8" X 7'-3"	outside pipe trench	RIGID THERMAX BOARD OVER PIPE LINES	2 [*]	16		STEEL WHITE RAISED LINER PANEL			1				
16'-2 3/8 X 14'-	3" (7)	EAST SIDE	STEELCRAFT	3/0 X 7/0 1 3/4"	STEEL/PAINT	NONE	1	3'2 3/8" X 7'3"	A A A A A A A A A A A A A A A A A A A	ORAGE OSET BI-FO			T NONE	LATCH	4'-2 3/8" x 7'-3"	OUTSIDE PERIMETER OF INSIDE PARTITIONS	FIBERGLASS BATT UN-FACED	3 1/2"	11	HALL, BOILER RM & MECH RM INTERIOR	SHEETROCK/IHR FIRE RATE	1 1/4" THK. P/ 2-LAYERS05/8" (2 (NT FLOOR TO CEIL	IG				
16'-2 3/8 X 14'-	3" 8	~~~~ () () () () () () () () ()	in the second		Long the second s			16'-2 3/8 X 14'-3"	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					LOCKSET/LEVE	R 3'-2 3/8" X 7'-3"					HALL, BOILER RM & MECH RM EXTERIOR	STEEL WHITE RAISED LINER PANEL	26 GA./36"W W	FLOOR TO MEZ					
16'-2 3/8 X 14'-	3" (9)		à	and the second sec	STEEL/PAINT			3'-2 3/8" X 7'-3"	30 BOIL 2ND	ER RM STEELC	RAFT 3/0 X 6/1 1 1/4"	STEEL/PAIN	T NONE	LOCKSET/LEVE	R 3-2 3/8" X 7-3"					SHOP PARTITION	STEEL WHITE RAISED LINER PANEL	26 GA./36"W WH	FLOOR TO ROO				-	
3'-2 3/8" x 7'-	3" 🕥		£				1	3'-2 3/8° X 7'-3"												TRUCK BAY PARTITION	STEEL WHITE RAISED LINER PANEL	26 GA./36"W WH	FLOOR TO ROO					
R 3'-2 3/8" X 7'-	3" (1)	LUNCH ROOM	STEELCRAFT	3/0 X 7/0 1 3/4"	STEEL/PAINT	24" SQ. WIRED	LEVER	3'-2 3/8° X 7'-3"																				
16°-2 3/8 X 14'-	3" (2)	WOMENS ROOM	STEELCRAFT	3/0 X 7/0 1 3/4"	STEEL/PAINTS	SLIDE/LATCH	LOCKSET/LEVER	3'-2 3/8" X 7'-3"																				

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ARY TO BE E WALL BAY	TRUCK BAY				
YP		TRUCK BAY	TRUCK BAY	TRUCK BAY	TRUCK E
				FLOOR TRENCH	
1 HR FIRE	RATED WALL & DOORS				
REA	TRUCK BAY	TRUCK BAY	TRUCK BAY	TRUCK BAY	TRUCK E

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ALL INTERIOR WALLS SHEATHED WITH DRYWALL SHALL HAVE



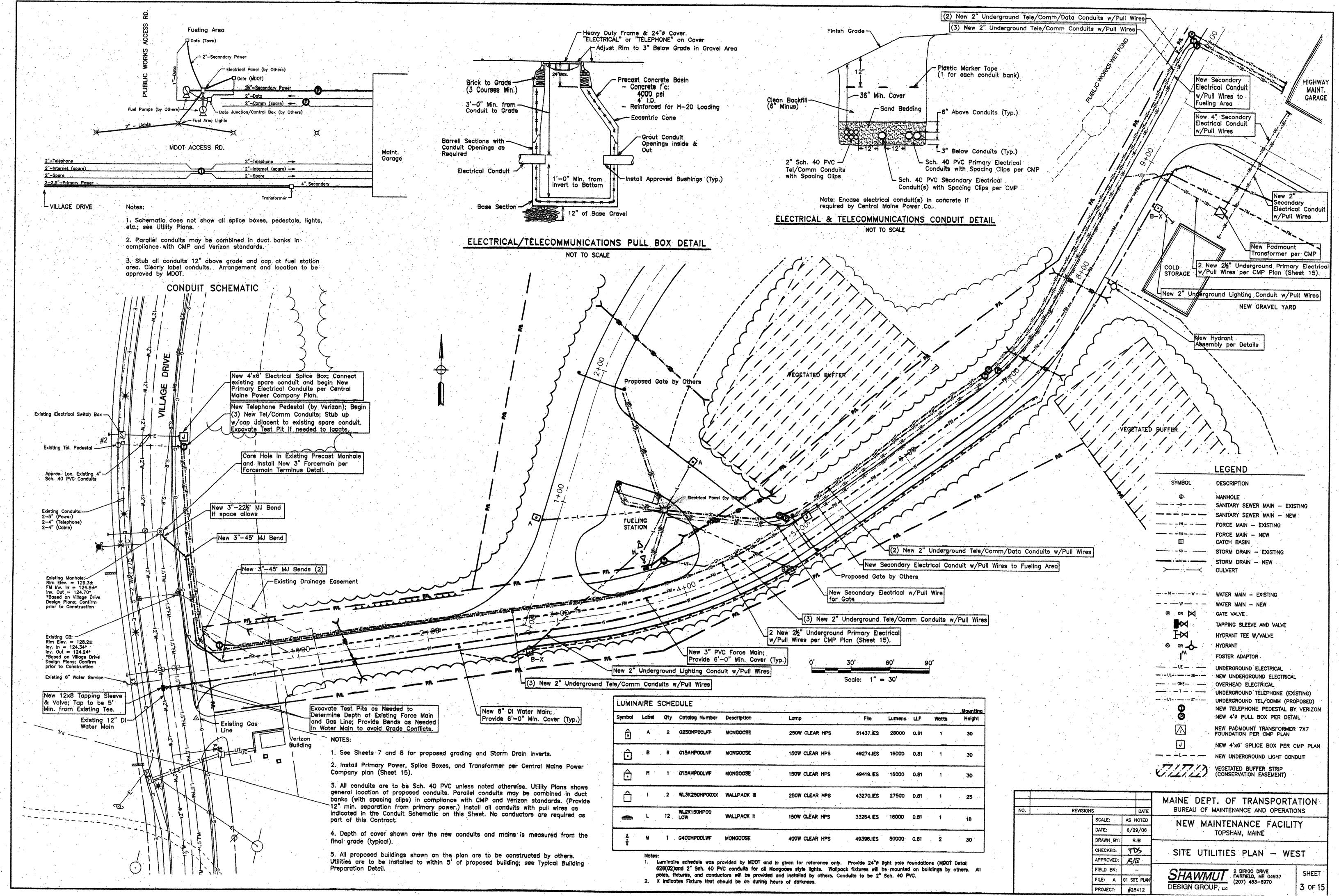
CONCR FLOOR SLAB

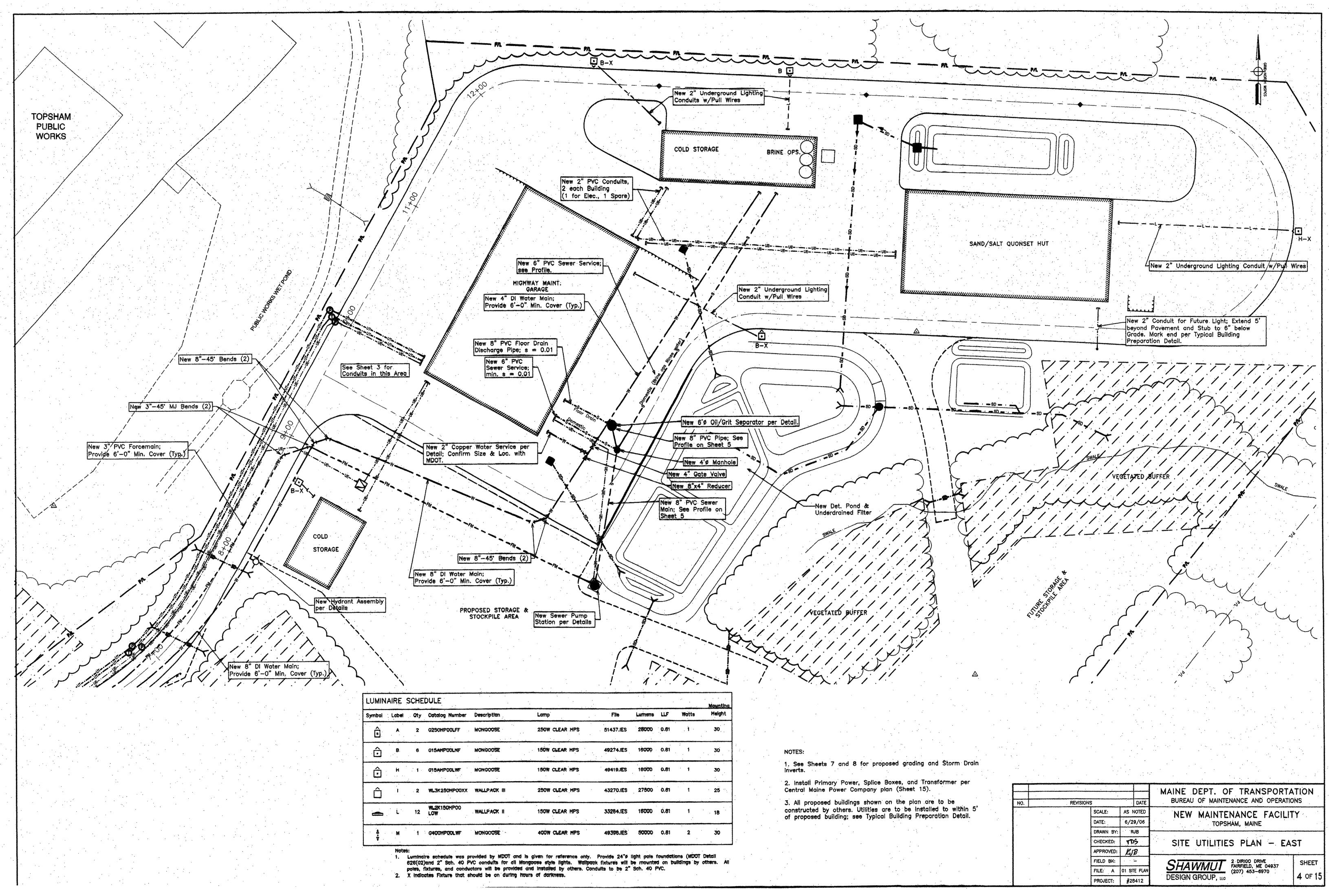
ONE HOUR WALL SECTION 1/2" = 1'-0"

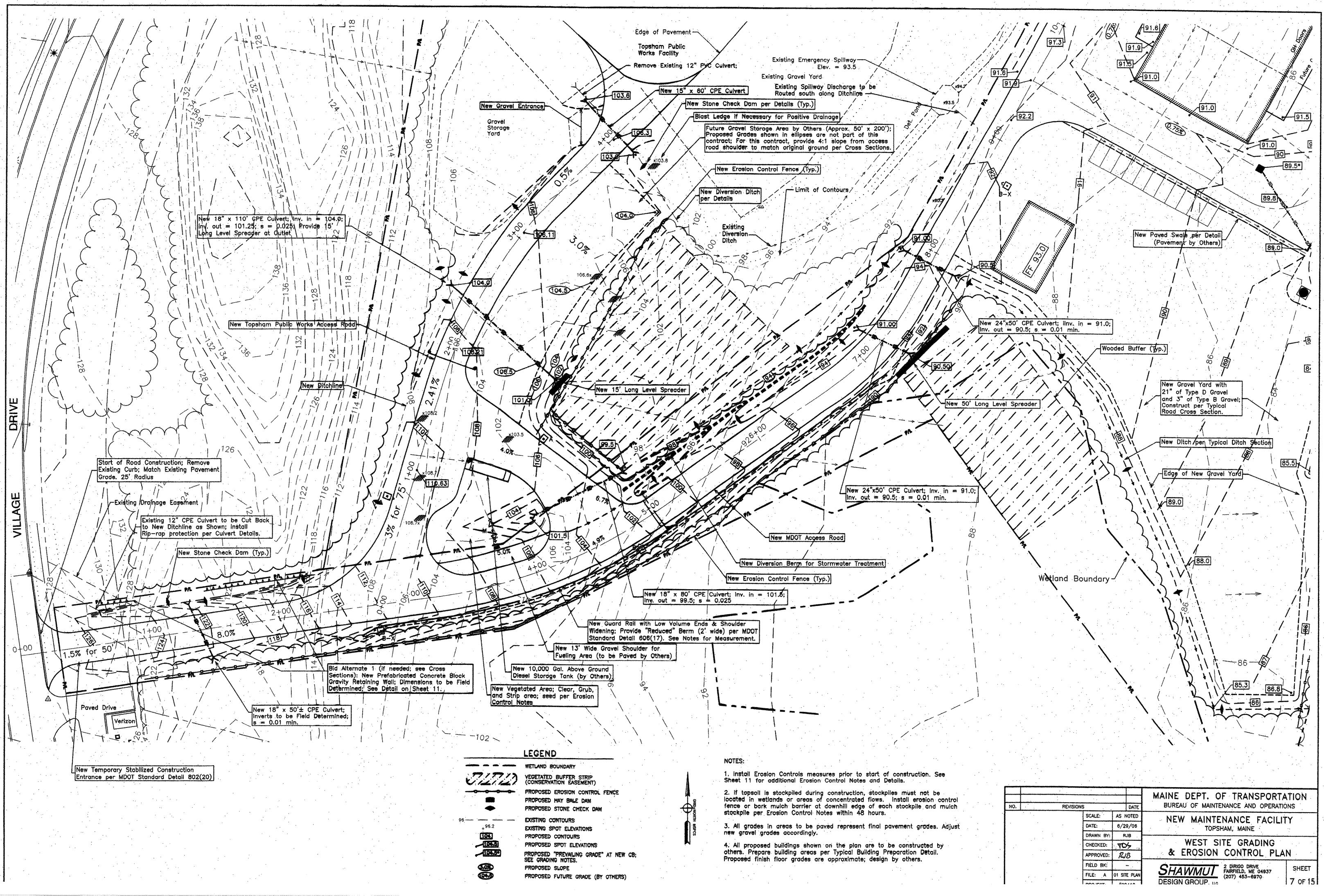
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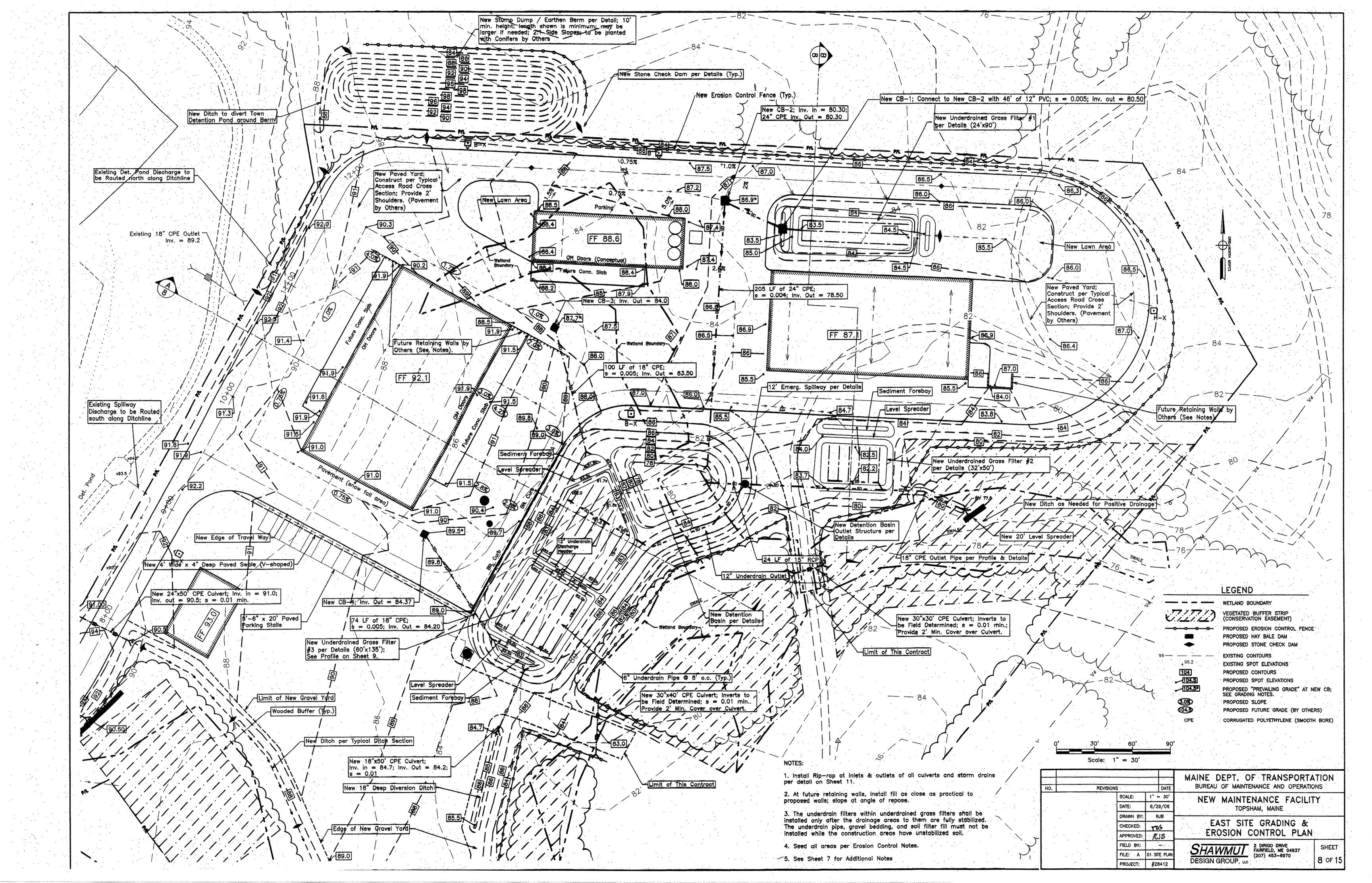


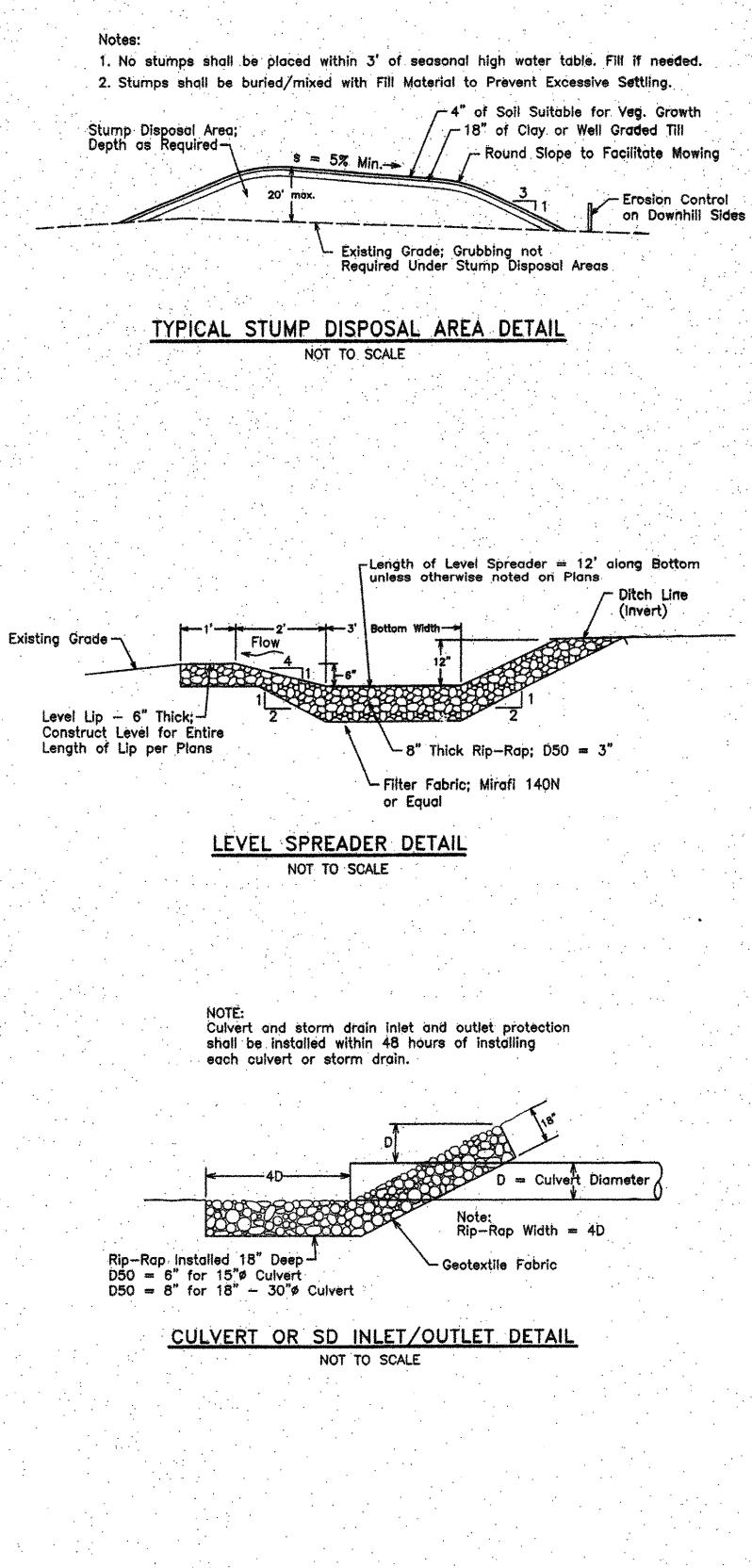
TOPSHAM, MAINE ITLE BUILDING SCHEDULES 09-05-98 REVISED POLY-DRAIN DIM. AND ISSUED FOR CONSTR. DATE SCALE 05-19-06 AS SHOWN JOB NO DRAWING NO A - 8BCHKD LP ENG 20-1-97 P Pelletier'







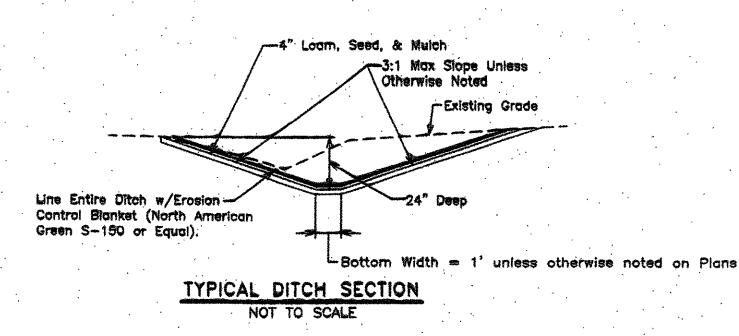


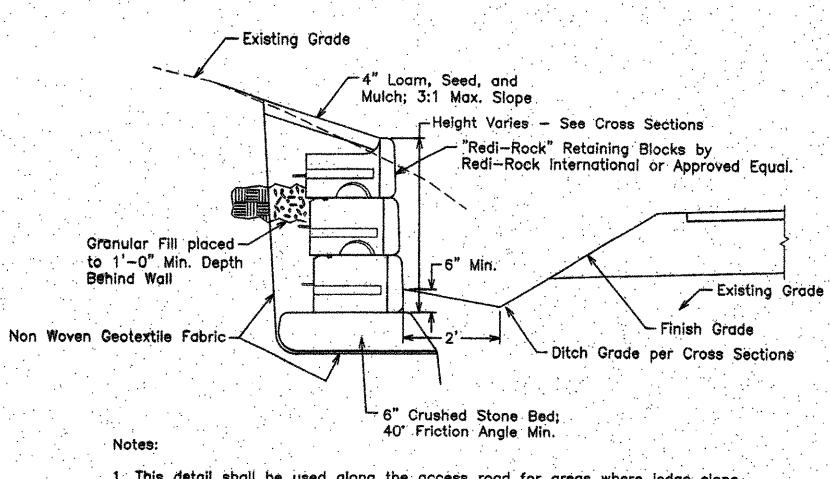


EROSION CONTROL NOTES:

1. All erosion control measures shall be installed prior to the start of construction and maintained throughout the construction period. The following implementation plans for soil erosion and sedimentation control measures shall be utilized throughout the project.

RM	Time for Completion
ilt Fence & May Bale Installation	1 week prior to excavation
emporary On-Site Soil Stabilization Seed & Muich)	2 weeks
Temporary Road Banks	
Soil Stockpiles itch Check Doms	
ermanent Seeding	within 1 weeks of completion of each segment
dintenance	once/week and immediately after significant rainfall
hall have Temporary Stone Check Dam Julched within 48 hours unless final g	swale excavated or brought to <u>couch</u> grade is installed within them and their side slopes rading and permanent stabilization will take Stone Check Dams at Intervals Specified in
ny section of road ditch or drainage	swale brought to final grade shall be
ermanently stabilized within 48 hours. wales shall be lined with erosion contr	Roadway ditch lines and other drainage rol matting to firmly hold loamed and seeded r's recommendations. Unless otherwise noted,
sturbed soils shall be revegetated with	hin 15 days of disturbance during construction.
eed shall consist of the following mix	ture for both disturbed areas and temporary eason. Areas shall be inspected weekly and
ixture shall be applied at a rate of 6	ore concentrated flows, the following seed 32 lbs/acre: Fescue
3% Red	
regs not expected to experience conc	entrated flows shall receive the following seed
ixture at a rate of 37 lbs/acre:	
	Fescue Iping Red Fescue
	Top
reas designated as lawn on the plans ark mixture) per MDOT specifications.	shall receive MDOT seed mixture method #1
preading shall be accomplished so the	mulch at the rate of 3 baies/1000 s.f at the hay lightly covers 80% to 90% of nce shall be taken at washout areas by mulch.
0-10-10 fertilizer shall be applied at	a rate of 138 ibs/1000 s.f. and lime 138 ibs/1000 s.f. Areas shall be
hall be applied to disturbed areas at	
nall be applied to disturbed areas at spected weekly and redressed, as net stablished.	cessary, until a permanent growth is
spected weekly and redressed, as nec stablished.	with the terms of "Winter Construction

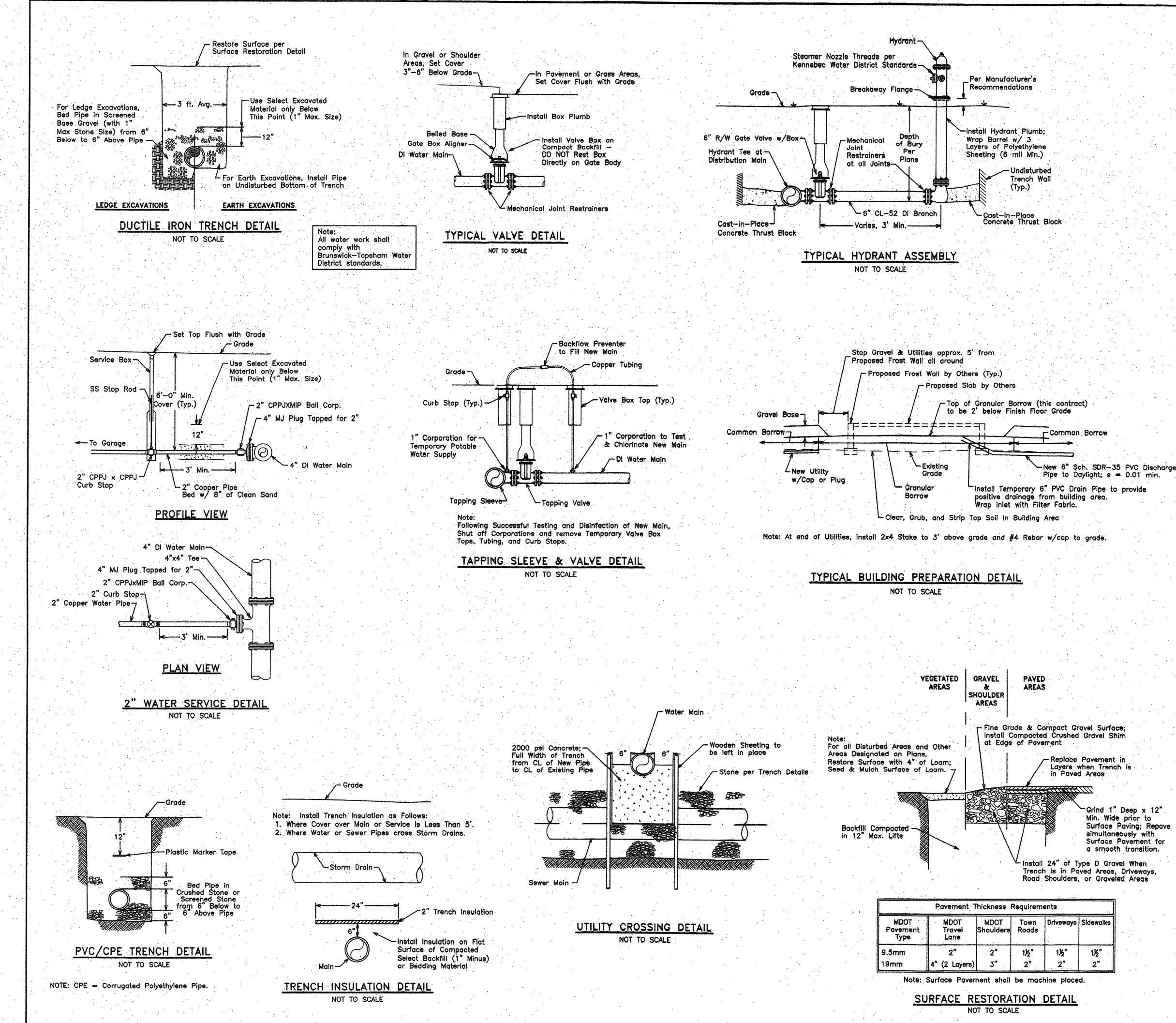




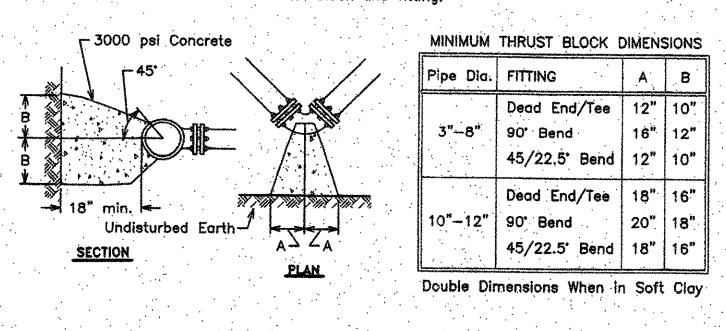
1. This detail shall be used along the access road for areas where ledge slope would extend beyond property line; see Access Road Cross Sections. 2. Install Retaining Wall per Spec. 635.31 and in Accordance with Manufacturer's Recommendations. Provide reinforcing geotextile if required per Mfr. Recommendations. Design by Supplier or Mfr. 3. Setback = 1.75" ±0.5" per Unit (5.55 Batter) 4. In case of conflict between this detail and Spec. 635.31, the latter shall prevail.

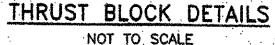
PREFABRICATED CONCRETE BLOCK GRAVITY RETAINING WALL NOT TO SCALE

		- 			MAINE DEPT. OF TRANSPORTATION					
NO.	REVISIONS			DATE	BUREAU OF MAINTENANCE AND OPERATIONS					
•	•	SCALE:	AS NO	OTED	NEW MAINTENANCE FACILITY					
	· · ·	DATE:	6/29	/06	TOPSHAM, MAINE					
		DRAWN BY:	RJI	6						
		CHECKED:	TO	5	STORMWATER & EROSION CONTROL					
	· · · · ·	APPROVED:	RIB		DETAILS					
	· · · ·	FIELD BK:	·		SHAWMIJT 2 DIRIGO DRIVE SHEE	π				
		FILE: A	01 SITE	PLAN	(207) 453~6970					
	•	PROJECT: #28412		112	DESIGN GROUP, LLC 11 OF	10				



- Notes:
- 1. Thrust Blocks shall be installed to support all hydrants, tees,
- tapping sleeves, all bends, plugs, and caps, etc.
- 2. Polyethylene Sheeting (4 mil min. thickness) shall be installed between the thrust block and fitting.







<i>.</i>		
	SUPERELEVATION RATE emex = 0.03	
	SUPERELEVATION STAGE	LOCATION
END OF SUPERELEVATION	-0.25' ES -0.25 NC NC	175° after PT
	-0.25' PX +0.00'	125' after PT
	-0.36' PY +0.17' NC	90' after PT
MAXIMUM SUPERELEVATION	-0.36' MS +0.36'	25' before PT to 25' ofter PC
	-0.25' PY +0.25' NC	90' before PC
	-0.25' PX +0.00'	125' before PC
BEGINNING OF SUPERELEVATION	-0.25' BS -0.25' NC NC	175' before PC

LEdge of Travel Lone

Notes:

1. NC = Normal Crown (i.e. $\frac{1}{4}$ /ft = 0.02) PC = Point of Curvature PT = Point of Tangency e = superelevation rate

PC MS

BS PX PY

175'

- 2. See Horizontal Curve data for individual curves to determine emax if no emax is listed, superelevation is not required.
- 3. "Rollover" between travel lane and outside shoulder should not exceed 8%. (e.g. for e = 6%, outside shoulder slope = 2%.). Inside shoulder slope shall be 4% or e, whichever is greater.

4. Where tangents between curves are less than 175', adjust PX and PY values as needed. - Horizontal Curve Centerline

Grind 1" Deep x 12" Min. Wide prior to Surface Paving; Repave simultaneously with Surface Pavement for a smooth transition.

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PX

ES

NOT TO SCALE

<u> </u>				MAINE DEPT. OF TRANSPORTATION					
NQ.	REVISION	IS	DATE	BUREAU OF MAINTENANCE AND OPERATIONS					
		SCALE:	AS NOTED	NEW MAINTENANCE FACILITY					
		DATE: 6/29/06		6/29/06	TOPSHAM, MAINE				
		DRAWN BY:	RJB						
`,	,	CHECKED:	TBS	MISCELLANEOUS DETAILS					
•		APPROVED:	RIB						
		FIELD BK:		SUATA ALLE 2 DIRIGO DRIVE SHEE					
	۰ · · · · · · · · · · · · · · · · · · ·	FILE: A	01 SITE PLAN	UTIA VVIVIUT PARTIELD, ME 04937 (207) 453-6970					
	PROJECT: #28412		#28412	DESIGN GROUP, us 12 OF					