DATE: **MAY 23, 2012**

RE: **ADDENDUM #2**

PROJECT: **MAPLE GROVE LAW ENFORCEMENT TRAINING FACILITY RENOVATION**

OWNER: **CITY OF MAPLE GROVE**

ARCHITECT: OERTEL ARCHITECTS, LTD.

BID DATE: **MAY 29, 2012, 2:00 p.m.**

The following modifications, deletions and additions shall append and become an integral part of the Contract Documents issued for this project. Where any portion of the Contract Documents is modified, deleted, added or voided, the unmodified potion of the Work shall remain in effect. The onus is on all contractors and sub-contractors/suppliers to cross-reference all items listed and determine for themselves the Work effected by the addendum items.

This addendum includes (23) pages: (3) page Architectural Addendum #2 memo, (4) pages of Architectural drawings, (9) pages of 08710 specifications, (4) pages of 09510 specifications, (2) page General Contractor's Pre-Bid Checklist, and (1) page Bidder's List

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NOTES TO CONTRACTORS AND CHANGES TO CONTRACT DOCUMENTS:

1. *The FINAL addendum will be posted on May 25, 2012. The business day prior to the posting is the last day the architect/engineer can answer new questions or clarify conditions: plan ahead.*
2. As a reminder, General Contractors had a **mandatory** pre-bid conference on May 23rd, at 9 a.m. at the Maple Grove LETF, only those that attended may submit bids on the project.
3. A current list of registered bidders (general, mechanical, and electrical) is attached to this addendum and is available on the www.oertelarchitects.com web site.

CHANGES TO THE SPECIFICATION SECTIONS:

Table of Contents: Add section "09510 Acoustical Ceilings".

Section 01010:

01010-1: SCOPE OF WORK: Amend line item 1. Scope of work, under new construction, to omit precast wall panels, and precast structural panels; and add stucco systems to the scope of work. As a clarification to line item 5.: There is an allowance included for the permits related to the project, the difference in cost between the allowance and the actual permit costs will be addressed by change order during the construction phase of the project (in the form of a credit or a deduct).

01010-2: BASE BID, ALTERNATES AND UNIT PRICES: Amend to read "BASE BID, AND ALLOWANCES. Omit reference to alternates, there are no alternates included in the project.

BIDDING AND ADDENDUMS: Amend the second sentence to read: "All addendums for this project will be available only on the Architect's website at www.oertelarchitects.com , on the Contractor Info page, at the links at the bottom of the page."

Section 02060 Selective Demoliton:

02060-1: DESCRIPTION OF WORK: Omit reference to two base bids, there is only one base bid for this project.

Section 05500 Miscellaneous Metals:

05500-1: SUMMARY: *Add:* "Support and connections for Steel pipe guardrails, Steel plate in-fill at miscellaneous locations as noted in structural and architectural drawings."
05500: *Add:* "Steel guardrails shown on architectural drawings to be 11/2" outside diameter and minimum of 3'-6" in height (above adjacent bar grating walkways), provide design, shop drawings, connectors, and installation for connection of removable guardrails to existing precast concrete tees."
05500-2: PART 2 - PRODUCTS: Omit reference to galvanized finish under steel bars for grating, walkway grating is not galvanized.

Section 06100 Carpentry:

06100-3: MATERIALS: *Add:* "Underlayment: Provide complete Air Barrier system including all accessories (seam tape, fasteners, sealant, and manufacturer's standard warranty). Provide complete system from one of the following:
VaproShield - WrapShield
Grace - Perm-A-Barrier VPS
DuPont - Tyvek Commercial Wrap D"
Air Barrier system to be installed behind all prefinished metal siding and trim work (unless shown otherwise on drawings, some areas receive ice and water shield as indicated on drawings). *Omit* reference to building paper being provided behind all siding and trim work.

Section 07200 Insulation:

07200-1: DESCRIPTION OF WORK: *Amend* to read batt insulation at walls to be minimum R-19 total. *Add*: "Rigid Extruded Board Insulation at below-grade conditions."

Section 07350 Asphalt Shingles:

07350-1: MATERIALS: *Under Asphalt Shingles:* Replace "Timberline Prestique 30 in Hunter Green" with "Timberline HD Lifetime High Definition in color to match existing shingles".
Under Provide 40 mil Ice and Watershield: Replace "skylight connections" with "and as indicated on drawings".

Section 08710 Door Hardware: Replace in it's entirety with the attached revised section.

Section 09510 Acoustical Ceilings: Add entire section attached.

Section 09650 Vinyl Base and Stair Treads:

09650-1: SUMMARY: *Under Section includes:* Amend bottom line to read: "Stair Treads at stair to mechanical mezzanine, and control room."

Section 11700 Firing Range Equipment:

11700-2: PRODUCTS: Manufacturer is to be Meggitt Training Systems, please contact Brian Danielson, phone: 763-568-7166, email: brian.danielson@meggitt.com .
11700-2: PRODUCTS: MATERIALS AND SYSTEMS: *Amend* to include the following:
(Based on range being 60'-8" wide, rifle rated)

1 ea	Bullet trap, steel escalator, LE5000-D
1 pr	Bullet trap side walls, LE5000-SW-C
1 ea	Bullet trap ventilation system with secondary filter and silencer
2 ea	Clearing traps, LEI216
2 row	Running man protector, JR5C-3
1 ea	Safety ceiling, rifle, JG12C
2 rows	Horizontal trap ceiling, JR5CX
7 rows	Light protectors, rifle, JR7CX
942 sqft	Range acoustics for safety ceiling and walls under ceiling, AAF
2 ea	Clear barrel trap, LE1216
2 ea	Combat wall protection, rifle, BWC, 9'x 30'
12 ea	360 degree turning monorail target system, with light, XWT-120
12 ea	Local controls stall mount, ICU
1 ea	Running man target system, XWT-55-RMX
1 ea	Master computer control with remote tablet, RM1 OK

11 ea	Center shooting dividers, with safety riser, BV10EX
1 pr	End shooting wall stall, with safety riser, BV3/4EX
1 ea	Firing line security system with two horns, EM30
2 ea	Firing line security switch at entrance doors, EM29
1 ea	Range communications system, EG60
12 ea	Local communications terminal at stall, EG66
2 ea	Range paging speakers at firing line, EG67

CHANGES TO THE DRAWINGS:

A1.0: Enlarged plan 3 does not show the existing storm structure at the north side of the addition. General contractor to coordinate existing and new storm structure locations with retaining wall location, verify existing conditions in field. Alert owner / architect of any conflicts prior to placing / constructing new structures and new retaining wall. Proposed site plan 2 does not show existing catch basin structure at north east side of building. General contractor to notify owner / architect of any conflicts with proposed sidewalk location prior to constructing new sidewalk.

A1.1: See attached sheets (two total) for changes.
Wall type "A" amend to read: "5/8" Gyp. Board, Vapor Barrier, Wood Trusses and 2x6 Wood Framing at 24" O.C. Minimum, R-19 Batt Insulation, 1/2" Gyp.Board.
Add note to read: "All vertical walls at mechanical mezzanine / attic space to receive 1/2" gyp. board at "exterior" side of wall (as indicated in wall type "A"), gyp. board will require fitting around and between wood trusses.

A4.1: Add note: See structural S4.1 for mounting / attachment of mechanical railing (for mechanical unit) to existing precast tees. Mechanical contractor is responsible for rails between existing precast tees, as indicated.

A5.1: See attached sheet (one total) for changes.

A6.1: See attached sheet (one total) for changes.

A7.1: Room Finish Schedule: Amend Room No. 100 to read: "Seal/Seal/Carpet" (under Floor Finish), and "Vinyl Base at Carpet" (under Base), and "Entire East Wall Receives Acoustic Panel" (under Remarks).

All Sheets: Make changes to wall type "A" (Sheet A1.1) to add 1/2" gyp. board to "exterior" side of wall at all vertical walls at mechanical mezzanine / attic space.

All Sheets: Replace all references to "15# Felt Roof Underlayment" with "30# Felt Underlayment".

All Sheets: All references to Air Barrier are referring to section 06100 Underlayment for Air Barrier System as outlined in Section 06100 changes to the specification sections in this addenda.

APPROVED EQUALS
none

CHANGES TO CIVIL
none

CHANGES TO STRUCTURAL
none

CHANGES TO MECHANICAL AND FIRE PROTECTION
none

CHANGES TO ELECTRICAL
none

END OF ADDENDUM #2

NOTES

1. PREPARE AREA, SEAL ALL JOINTS, PAINT ALL EXPOSED METAL, HOLLOW METAL DOORS, FRAMES, AND WINDOW FRAMES, CEILING AND WALLS. PREPARE PORTION OF FLOOR FOR NEW COATING; CLEAN REMAINDER OF FLOOR.

2. COUNTERTOP (N.I.C.)

3. NOT USED

4. 18" DEPTH BUTCHER BLOCK COUNTERTOP W/ METAL SUPPORT BRACKETS AS NECESSARY AND 2" GROMMETS AS SHOWN ON PLAN. COUNTERTOP TO HAVE 36" CLEAR BELOW LOWEST POINT, WITH 4" HIGH BACKSPLASH. CONDUIT AND OUTLETS BELOW COUNTERTOP - SEE ELECTRICAL

5. PREPARE AREA FOR INSTALLATION OF NEW FIRING RANGE CARRIER EQUIPMENT, FIRE SUPPRESSION SYSTEM, LIGHTING, BULLET DEFLECTORS, NEW DIFFUSERS, ETC.

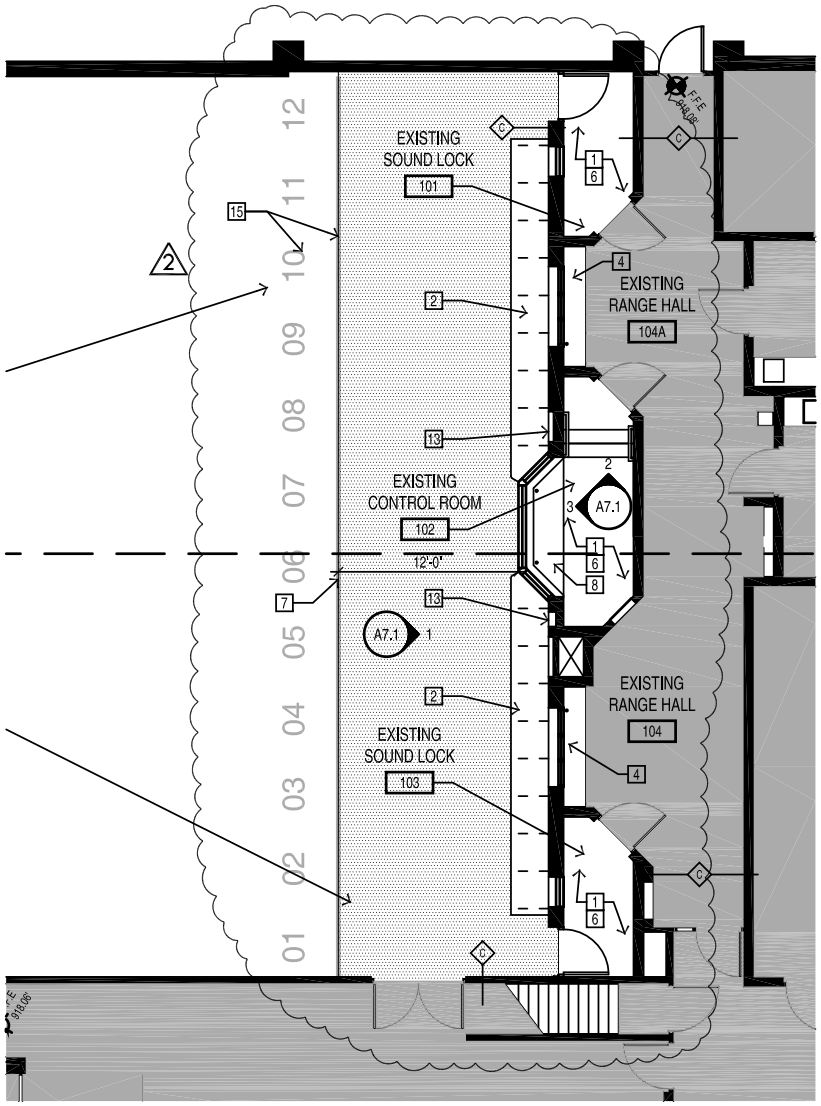
6. PREPARE AREA FOR NEW CEILING, LIGHT FIXTURES, MECHANICAL DIFFUSERS, ETC. INSTALL NEW A.C.T. CEILING, LIGHT FIXTURES, MECHANICAL COMPONENTS, ETC.

7. FIRING LINE - EDGE OF CARPET FLOORING 2

8. 24" DEPTH BUTCHER BLOCK COUNTERTOP W/ METAL SUPPORT BRACKETS AS NECESSARY AND 2" GROMMETS AS SHOWN ON PLAN. COUNTERTOP TO BE 30" A.F.F., CONDUIT AND OUTLETS BELOW COUNTERTOP - SEE ELECTRICAL

9. PROVIDE (8) 24" x 24" PREFINISHED METAL ACCESS PANELS IN ATTIC WALLS (SPACED APPROXIMATELY 40' O.C.)

10. NEW WALKWAY GRATING - QUANTITY 17 (APPROXIMATELY 3'-8" x 4'-0" V.I.F. ACTUAL SPACE BETWEEN EXISTING PRECAST TEES, GRATING TOP TO BE



1 PARTIAL FIRST FLOOR PLAN

N.T.S.

MAPLE GROVE LAW ENFORCEMENT
TRAINING FACILITY RENOVATION

DESCRIPTION:
ADDENDUM #2

ISSUED:
MAY 25, 2012

PLOTTED:
5-21-2012

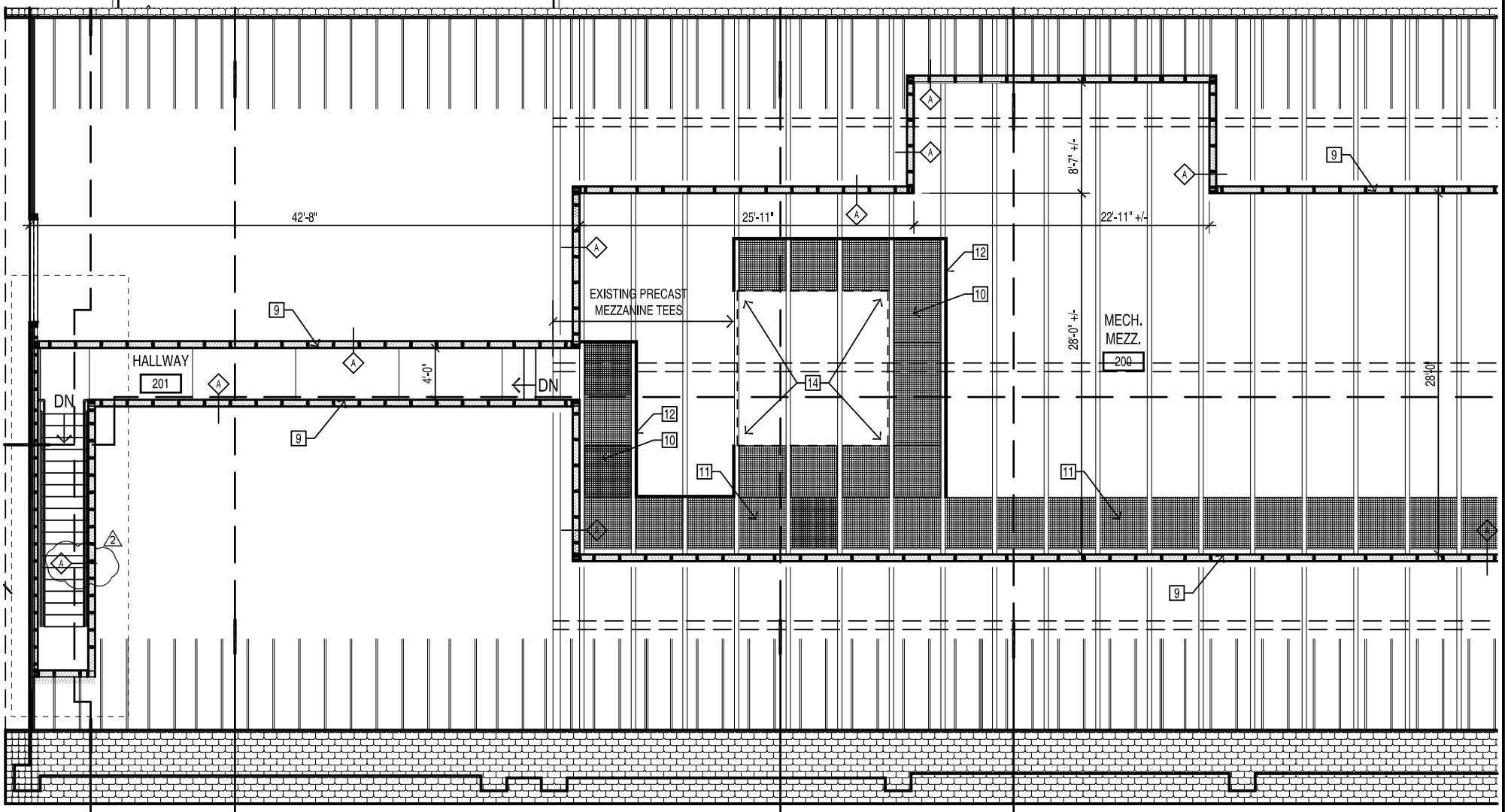
FILE NAME:
A1.1-1104.dwg

OERTEL ARCHITECTS
1795 SAINT CLAIR AVE. / ST. PAUL, MN 55105
(651) 696-5186 / (651) 696-5188 FAX
www.oertelarchitects.com

SHEET NO.
REFERENCE:
A1.1

WALL TYPES:

A 5/8" GYP. BOARD, VAPOR BARRIER, WOOD TRUSSES AND 2x6 WOOD FRAMING AT 24" O.C. MINIMUM, R-19 BATT INSULATION, 1/2" GYP. BOARD. 2



8 A4.1 | 2 A4.1 | 3 A4.1 | 1 A4.1

2 PARTIAL MECHANICAL MEZZ. PLAN

N.T.S.

MAPLE GROVE LAW ENFORCEMENT

TRAINING FACILITY RENOVATION

DESCRIPTION:
ADDENDUM #2

ISSUED:
MAY 25, 2012

PLOTTED:
5-22-2012

FILE NAME:
A1.1-1104.dwg

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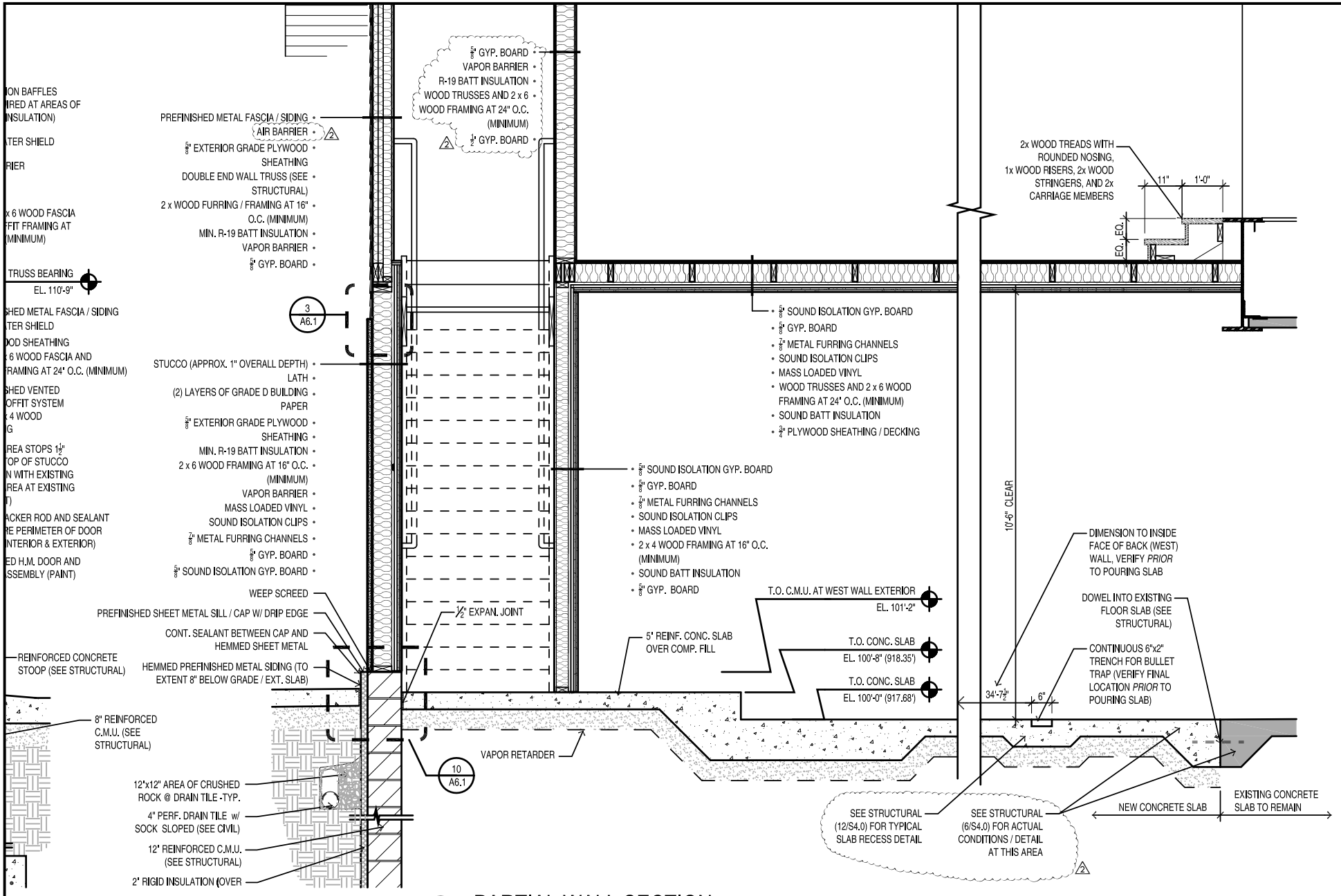
SHEET NO.
REFERENCE:
A1.1



3 PARTIAL WALL SECTION

N.T.S.

MAPLE GROVE LAW ENFORCEMENT

TRAINING FACILITY RENOVATION

ISSUED: MAY 25, 2012

DESCRIPTION: ADDENDUM #2

PLOTTED: 5-22-2012

FILE NAME: A5.1-1104.dwg

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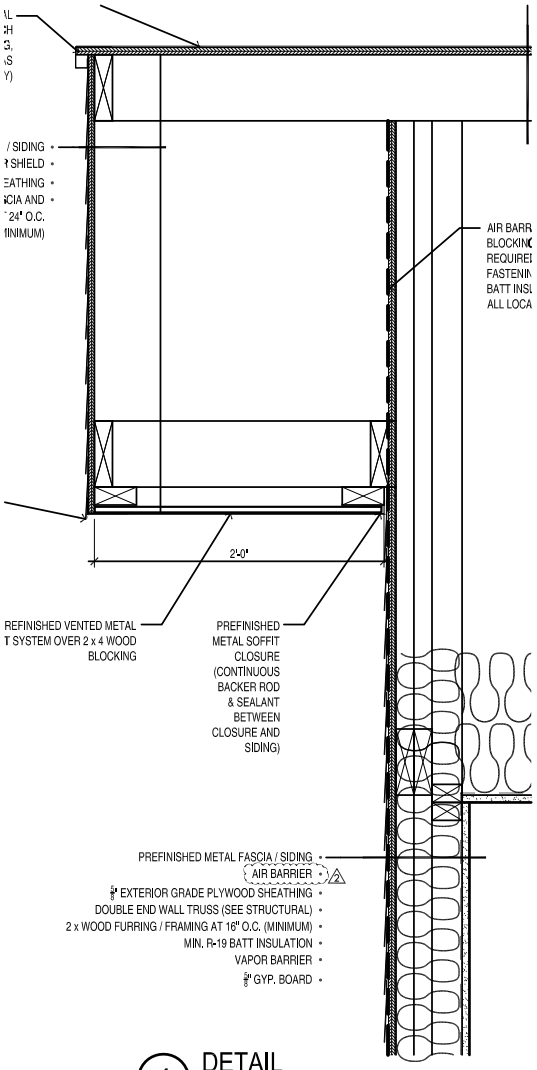
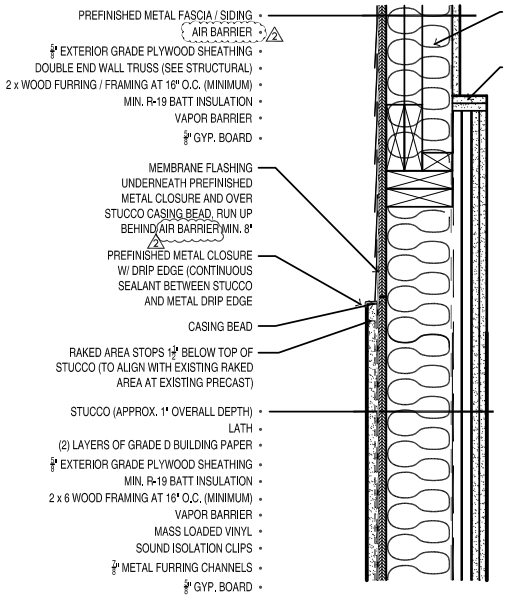
SHEET NO.

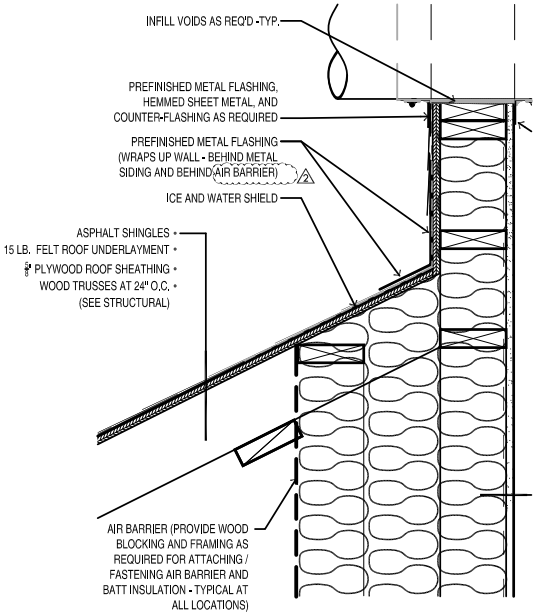
REFERENCE: A5.1



4 DETAIL



3 DETAIL



7 DETAIL

MAPLE GROVE LAW ENFORCEMENT

TRAINING FACILITY RENOVATION

DESCRIPTION:
ADDENDUM #2

ISSUED:
MAY 25, 2012

PLOTTED:
5-22-2012

FILE NAME:
A5.1-1104.dwg

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SHEET NO.
REFERENCE:
A6.1

SECTION 08710 – DOOR HARDWARE

PART 1 - GENERAL

1.1 CONDITIONS

A. Conditions of the contract (General and Supplementary Conditions) and Division One General Requirements, govern the work of this section.

B. This section includes all material, and related service necessary to furnish all finish hardware indicated on the drawings, or specified herein.

C. Furnish UL listed hardware for all labeled and 20 min. openings in conformance with the requirements for the class of opening scheduled. Underwriters' requirements shall have precedence over specification where conflicts exist.

D. All work shall be in accordance with all applicable state and local building codes. Code requirements shall have precedence over this specification where conflicts exist.

1.2 WORK INCLUDED

A. This section includes the following:

1. Furnish door hardware (for hollow metal, wood and aluminum doors) specified herein, listed in the hardware schedule, and/or required by the drawings.
2. Cylinders for Aluminum Doors
3. Thresholds and Weather-stripping (Aluminum frame seals to be provided by aluminum door supplier)
4. Electro-Mechanical Devices
5. Access Control components and or systems specified within this section.

B. Where items of hardware are not definitely or correctly specified and is required for the intended service, such omission, error or other discrepancy should be directed to the Architect prior to the bid date for clarification by addendum. Otherwise furnish such items in the type and quantity established by this specification for the appropriate service intended.

1.3 RELATED WORK IN OTHER SECTIONS

A. This section includes coordination with related work in the following sections:

1. Division 6 Section "Finish Carpentry".
2. Division 6 Section "Cabinet Hardware"
3. Division 8 Section "Hollow Metal Doors and Frames".
4. Division 8 Section "Wood Doors"
5. Division 8 Section "Aluminum Entrances and Storefronts"

1.4 REFERENCES

A. Publications of agencies and organizations listed below form a part of this specification section to the extent referenced.

1. DHI - Recommended Locations for Builders' Hardware.
2. NFPA 80 - Standards for Fire Doors and Windows.
3. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures.
4. UL - Building Material Directory.
5. DHI - Door and Hardware Institute
6. WHI - Warnock Hersey
7. IBC 2006 - International Building Code 2006 Edition (as amended by local building code)

1.5 SUBMITTALS

A. Within ten days after award of contract, submit detailed hardware schedule in quantities as required by Division 1 - General Conditions.

B. Schedule format shall be consistent with recommendations for a vertical format as set forth in the Door & Hardware Institute's (DHI) publication "Sequence and Format for the Hardware Schedule". Hardware sets shall be consolidated to group multiple door openings which share similar hardware requirements. Schedule shall include the following information:

1. Door number, location, size, handing, and rating.
2. Door and frame material, handing.
3. Degree of swing.
4. Manufacturer
5. Product name and catalog number
6. Function, type and style
7. Size and finish of each item
8. Mounting heights
9. Explanation of abbreviations, symbols, etc.
10. Numerical door index, indicating the hardware set/ group number for each door.

C. When universal type door closers are to be provided, the schedule shall indicate the application method to be used for installation at each door: (regular arm, parallel arm, or top jamb).

D. The schedule will be prepared under the direct supervision of a certified Architectural Hardware Consultant (AHC) employed by the hardware distributor. The hardware schedule shall be signed and embossed with the DHI certification seal of the supervising AHC. The supervising AHC shall attend any meetings related to the project when requested by the architect.

E. Check the specified hardware for suitability and adaptability to the details and surrounding conditions.

F. Review drawings from related trades as required to verify compatibility with specified hardware. Indicate unsuitable or in compatible items, and proposed substitutions in the hardware schedule.

G. Provide documentation for all hardware to be furnished on labeled fire doors indicating compliance with positive pressure fire testing UL 10C.

H. Furnish manufacturers' catalog data for each item of hardware in quantities as required by Division 1 - General Conditions.

I. Submit a sample of each type of hardware requested by the architect. Samples shall be of the same finish, style, and function as specified herein. Tag each sample with its permanent location so that it may be used in the final work.

J. Furnish with first submittal, a list of required lead times for all hardware items.

K. After final approved schedule is returned, transmit corrected copies for distribution and field use in quantities as required by Division 1 - General Conditions.

L. Furnish approved hardware schedules, template lists, and pertinent templates as requested by related trades.

M. Furnish necessary diagrams, schematics, voltage and amperage requirements for all electro-mechanical devices or systems as required by related trades. Wiring diagrams shall be opening specific and include both a riser diagram and point to point diagram showing all wiring terminations.

N. After receipt of approved hardware schedule, Hardware supplier shall initiate a meeting including the owner's representative to determine keying requirements. Upon completion of the initial key meeting, hardware supplier shall prepare a proposed key schedule with symbols and abbreviations as set forth in the door and hardware institute's publication "Keying Procedures, Systems, and Nomenclature". Submit copies of owner approved key schedule for review and field use in quantities as required by Division 1 - General Conditions. Wiring diagrams shall be included in final submittals transmitted for distribution and field use.

1.6 QUALITY ASSURANCE

A. Manufacturers and model numbers listed are to establish a standard of function and quality. Similar items by approved manufacturers that are equal in design, function, and quality, may be considered for prior

approval of the architect, provided the required data and physical samples are submitted for approval as set forth in Division One General Requirements.

B. Obtain each type of hardware (hinges, latch & locksets, exit devices, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.

C. All hardware items shall be manufactured no earlier than 6 months prior to delivery to site.

D. Hardware supplier shall be factory trained and certified by the manufacture to provide and support all computer managed locks and system components.

E. Installation of hardware shall be installed or directly supervised and inspected by a skilled installer certified by the manufacturer of locksets, door closers, and exit devices used on the project, or with not less than 3 years experience in successful completion of projects similar in size and scope.

F. Provide hardware for all labeled fire doors, which complies with positive pressure fire testing UL 10C.

G. Comply with all applicable provisions of the standards referenced within section 1.4 of this specification.

H. Hardware supplier shall participate when reasonably requested to meet with the contractor and or architect to inspect any claim for incorrect or non-functioning materials; following such inspection, the hardware supplier shall provide a written statement documenting the cause and proposed remedy of any unresolved items.

1.7 DELIVERY, STORAGE AND HANDLING

A. Hardware supplier shall deliver hardware to the job site unless otherwise specified.

B. All hardware shall be delivered in manufacturers' original cartons and shall be clearly marked with set and door number.

C. Coordinate with contractor prior to hardware delivery and recommend secure storage and protection against loss and damage at job site.

D. Contractor shall receive all hardware and provide secure and proper protection of all hardware items to avoid delays caused by lost or damaged hardware. Contractor shall report shortages to the Architect and hardware supplier immediately after receipt of material at the job site.

E. Coordinate with related trades under the direction of the contractor for delivery of hardware items necessary for factory installation.

1.8 PRE-INSTALLATION MEETING

A. Schedule a hardware pre-installation meeting on site to review and discuss the installation of continuous hinges, locksets, door closers, exit devices, overhead stops, and electromechanical door hardware.

B. Meeting attendees shall be notified 7 days in advance and shall include: Architect, Contractor, Door Hardware Installers (including low voltage hardware), Manufacturers representatives for above hardware items, and any other effected subcontractors or suppliers.

C. All attendees shall be prepared to distribute installation manuals, hardware schedules, templates, and physical hardware samples.

1.9 WARRANTY

A. All hardware items shall be warranted against defects in material and workmanship as set forth in Division One General Requirements.

B. Repair, replace, or otherwise correct deficient materials and workmanship without additional cost to owner.

PART 2 - PRODUCTS

2.1 FASTENERS

A. All exposed fasteners shall be Phillips head or as otherwise specified, and shall match the finish of the adjacent hardware. All fasteners ex-posed to the weather shall be non-ferrous or stainless steel. Furnish correct fasteners to accommodate surrounding conditions.

B. Where torx tamper resistant fasteners have been specified for a specific hardware group, provide torx head fasteners with center pin on ALL exposed fasteners.

C. Coordinate required reinforcements for doors and frames. Seek approval of the architect prior to furnishing through-bolts. Furnish through-bolts as required for materials not readily reinforced.

2.2 BUTT HINGES

A. Acceptable manufacturers and respective catalog numbers:

	Ives	Stanley	Hager
1. Standard Weight, Plain Bearing	5PB1	F179	1279
2. Standard Weight, Ball Bearing	5BB1	BB179	BB1279
3. Standard Weight, Ball Bearing, Non-Ferrous	5BB1	FBB191	BB1191
4. Heavy Weight, Ball Bearing	5BB1HW	FBB168	BB1168
5. Heavy Weight, Ball Bearing, Non-Ferrous	5BB1HW	FBB199	BB1199

B. Unless otherwise specified, furnish the following hinge quantities for each door leaf.

1. 3 hinges for doors up to 90 inches.
2. 1 additional hinge for every 30 inch on doors over 90 inches.
3. 4 hinges for Dutch door applications.

C. Unless otherwise specified, top and bottom hinges shall be located as specified in division 8 Section "Hollow Metal Doors and Frames". Intermediate hinges shall be located equidistant from others.

D. Unless otherwise specified, furnish hinge weight and type as follows:

1. Standard weight: plain bearing hinge 5PB1 for interior openings through 36 inches wide without a door closer.
2. Standard weight: ball bearing hinge 5BB1 for interior opening over 36 through 40 inches wide without a door closer, and for interior openings through 40 inches wide with a door closer.
3. Heavyweight: 4 ball bearing hinge 5BB1HW for interior openings over 40 inches wide, and for all vestibule doors.
4. Heavyweight: 4 ball bearing hinge 5BB1HWss for exterior openings unless otherwise listed in groups.

E. Unless otherwise specified, furnish hinges for exterior doors, fabricated from brass, bronze, or stainless steel. Unless otherwise specified, hinges for interior doors may be fabricated from steel.

F. Unless otherwise specified, furnish hinges in the following sizes:

1. 5" x 5" 2-1/4" thick doors
2. 4-1/2" x 4-1/2" 1-3/4" thick doors
3. 3-1/2" x 3-1/2" 1-3/8" thick doors

G. Furnish hinges with sufficient width to accommodate trim and allow for 180-degree swing.

H. Unless otherwise specified, furnish hinges with flat button tips with non-rising pins at interior doors, non-removable loose pins (NRP) at exterior and out-swinging interior doors.

I. Unless otherwise specified, furnish all hinges to template standards.

2.3 FLUSH BOLTS AND DUST PROOF STRIKES

A. Acceptable manufacturers and respective catalog numbers:

	Ives	Door Controls	Hager
1. Dust Proof Strike	DP2	80	280X
2. Manual Flush Bolt	FB458	780	282D

B. Unless otherwise specified, provide 12" rods for manual flush bolts for door 7'6" or less, 24" top rods for doors over 7'6" to 8'6".

C. Unless otherwise specified, provide doors over 8'6" with automatic top bolts.

D. Provide automatic flush bolts where required to maintain fire door listing and or egress requirements on pairs of doors.

E. Provide all bottom flush bolts with non-locking dust proof strikes.

2.4 LOCKS AND LATCHES

A. Acceptable manufacturers and respective catalog numbers:

B. Acceptable manufacturers and respective catalog numbers:

	Schlage	Yale
1. Grade 1 Mortise	L Series 06A	8800 Series AUR

C. Unless otherwise specified, all locks and latches to have:

1. 2-3/4" Backset
2. 1/2" minimum throw latchbolt
3. 1" throw deadbolt
4. 6 pin cylinders
5. ANSI A115.2 strikes

D. Provide guarded latch bolts for all locksets, and latch bolts with sufficient throw to maintain fire rating of both single and paired door assemblies.

E. Length of strike lip shall be sufficient to clear surrounding trim.

F. Provide wrought boxes for strikes at inactive doors, wood frames, and metal frames without integral mortar covers.

2.5 CLOSERS

A. Acceptable manufacturers and respective catalog numbers:

	LCN	No Substitution
1.	4011 /4111 EDA	

B. Obtain door closers from a single manufacturer, although several may be indicated as offering products complying with requirements.

C. Provide extra heavy duty arm (EDA / HD) when closer is to be installed using parallel arm mounting.

D. Closers shall use high strength cast iron cylinders, forged main arms, and 1 piece forged steel pistons.

E. Closers shall utilize a stable fluid withstanding temperature range of +120deg F to -30deg F without seasonal adjustment of closer speed to properly close the door. Closers for fire-rated doors shall be provided with temperature stabilizing fluid that complies with standards UL10C.

F. Unless otherwise specified, all door closers shall have full covers and separate adjusting valves for sweeps, latch, and backcheck.

G. Provide closers for all labeled doors. Provide closer series and type consistent with other closers for similar doors specified elsewhere on the project.

H. Provide closers with adjustable spring power. Size closers to insure exterior and fire rated doors will consistently close and latch doors under existing conditions. Size all other door closers to allow for reduced opening force not to exceed 5 lbs.

I. Install closers on the room side of corridor doors, stair side of stairways and interior side of exterior doors.

J. Closers shall be furnished complete with all mounting brackets and cover plates as required by door and frame conditions, and by adjacent hardware.

K. Pressure Relief Valve, PRV, shall not be acceptable.

2.6 OVERHEAD STOPS

A. Acceptable manufacturers and respective catalog numbers:

Glynn-Johnson	Rixson	Sargent

1.	Heavy Duty Surface Mount	GJ900 Series	9 Series	590

B. Overhead stops (including slide block and end caps) shall be fabricated from metal.

C. Unless otherwise specified, furnish GJ900 series overhead stop for doors equipped with regular arm surface type closers that swing more than 140 degrees before striking a wall, for doors that open against equipment, casework, sidelights, or other objects that would make wall bumpers inappropriate, and as specified in hardware groups.

D. Furnish sex bolt attachments for wood and mineral core doors unless doors are supplied with proper reinforcing blocks.

E. Provide special stop only ("SE" suffix) overhead stops when used in conjunction with electronic hold open closers.

F. Do not provide holder function for labeled doors.

2.7 WEATHERSTRIP, GASKETING

A. Acceptable manufacturers and respective catalog numbers:

		Zero	Pemko	NGP	Reese
1.	Weatherstrip	429	2891_PK	700NA	755
2.	Sweep w/ drip	8198	345_N	C627	354
3.	Drip Cap	142	346	16	R201

B. Where specified in the hardware groups, furnish the above products unless otherwise detailed in groups.

C. Provide weatherstripping all exterior doors and where specified.

D. Provide intumescent and other required edge sealing systems as required by individual fire door listings to comply with positive pressure standards UL 10C.

E. Provide Zero 188 smoke gaskets at all fire rated doors and smoke and draft control assemblies.

F. Provide gasketing for all meeting edges on pairs of fire doors. Gasketing shall be compatible with astragal design provided by door supplier as required for specific fire door listings.

2.8 THRESHOLDS

A. Acceptable manufacturers and respective catalog numbers:

		Zero	Pemko	NGP	Reese
1.	Saddle Thresholds	8655	171	425	S205

B. Hardware supplier shall verify all finish floor conditions and coordinate proper threshold as required to insure a smooth transition between threshold and interior floor finish.

C. Threshold Types:

1. Unless otherwise specified, provide saddle threshold similar to Zero 8655 for all exterior openings with an interior floor finish less than or equal to 1/4" in height.
2. Unless otherwise specified, provide half saddle threshold similar to Zero 1674 for all exterior openings with an interior floor finish greater than 1/4" in height. Threshold height shall match thickness of interior floor finish.

2.9 FINISHES AND BASE MATERIALS

A. Unless otherwise indicated in the hardware groups or herein, hardware finishes shall be applied over base metals as specified in the following finish schedule:

	HARDWARE ITEM	BHMA FINISH AND BASE MATERIAL
1.	Butt Hinges: Exterior, or Non-Ferrous	630 (US32D - Satin Stainless Steel)
2.	Flush Bolts	626 (US26D - Satin Chromium)
3.	Locks and Latches	626 (US26D - Satin Chromium)
4.	Closers	689 (Powder Coat Aluminum)
5.	Overhead Stops	630 (US32D - Satin Stainless Steel)
6.	Thresholds	628 (Mill Aluminum)

7.	Weather-strip, Sweeps Drip Caps	Aluminum Anodized
8.	Miscellaneous	626 (US26D - Satin Chromium)

2.10 KEYING

A. Provide all cylinders in keyways as required to accommodate owners existing key system.

B. All locks under this section shall be keyed as directed by the owner to an existing Master Key System.

C. Furnish a total of 2 keys per cylinder. Actual cut keys to be determined by owner.

D. Master keys, control keys, and change keys shall be delivered by registered mail to the owner. Construction keys shall be delivered to the contractor.

2.11 KEY CABINETS

A. Acceptable manufacturers and respective catalog numbers:

	Lund	Key Control	Telkee
1.	1200-1205 AA	M228-2480	RWC-AWC

B. Furnish 1 each model 1200 or 1205 AA key cabinet with a capacity 1.5 times the number of key sets.

C. Provide one key cabinet with at least one hook for each key set, plus additional hooks for 50% expansion.

D. Furnish key cabinet complete with cam lock, permanent key tags, and change key cards.

E. Hardware supplier shall prepare all key change index records, tag all keys and place permanent file keys in cabinet.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to installation of hardware, installer shall examine door frame installation to insure frames have been set square and plumb. Installer shall examine doors, door frames, and adjacent wall, floor, and ceiling for conditions, which would adversely effect proper operation and function of door assemblies. Do not proceed with hardware installation until such deficiencies have been corrected.

3.2 INSTALLATION

A. Before hardware installation, general contractor/construction manager shall coordinate a hardware installation seminar with a 1 week notice to all parties involved. The seminar is to be conducted on the installation of hardware, specifically of locksets, closers, exit devices, continuous hinges and overhead stops. Manufacturer's representative of the above products to present seminar. Seminar to be held at the job site and attended by installers of hardware (including low voltage hardware) for aluminum, hollow metal and wood doors. Training to include use of installation manuals, hardware schedule, templates and physical products samples.

B. Install all hardware in accordance with the approved hardware schedule and manufacturers instructions for installation and adjustment.

C. Set units level, plumb and true to the line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

D. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accord with industry standards.

E. Drill appropriate size pilot holes for all hardware attached to wood doors and frames.

F. Shim doors as required to maintain proper operating clearance between door and frame.

G. Unless otherwise specified, locate all hardware in accordance with the recommended locations for builders hardware for standard doors and frames as published by the Door and Hardware Institute.

H. Use only fasteners supplied by or approved by the manufacturer for each respective item of hardware.

I. Mortise and cut to close tolerance and conceal evidence of cutting in the finished work.

J. Conceal push and pull bar fasteners where possible. Do not install through bolts through push plates.

K. Install hardware on UL labeled openings in accordance with manufacturer's requirements to maintain the label.

L. Apply self-adhesive gasketing on frame stop at head & latch side and on rabbet of frame at hinge side.

M. Install hardware in accordance with supplemental "S" label instructions on all fire rated openings.

N. Install wall stops to contact lever handles or pulls. Do not mount wall stops on casework, or equipment.

O. Where necessary, adjust doors and hardware as required to eliminate binding between strike and latchbolt. Doors should not rattle.

P. Overhead stops used in conjunction with electrified hold open closers shall be templated and installed to coincide with engagement of closer hold open position.

Q. Install door closers on corridor side of lobby doors, room side of corridor doors, and stair side of stairways.

R. Adjust spring power of door closers to the minimum force required to insure exterior and fire rated doors will consistently close and latch doors under existing conditions. Adjust all other door closers to insure opening force does not to exceed 5 lbs.

S. Adjust "sweep", "latch", & "back check" valves on all door closers to properly control door through out the opening and closing cycle. Adjust total closing speed as required to comply with all applicable state and local building codes.

T. Install "hardware compatible" (bar stock) type weatherstripping continuously for an uninterrupted seal. Adjust templating for parallel arm door closers, exit devices, etc., as required to accommodate weatherstripping.

U. Unless otherwise specified or detailed, install thresholds with the bevel in vertical alignment with the outside door face. Notch and closely fit thresholds to frame profile. Set thresholds in full bed of sealant.

V. Compress sweep during installation as recommended by sweep manufacturer to facilitate a water resistant seal.

W. Deliver to the owner 1 complete set of installation and adjustment instructions, and tools as furnished with the hardware.

3.3 FIELD QUALITY CONTROL

A. After installation has been completed, the hardware supplier and manufacturers representative for locksets, door closers, exit devices, and overhead stops shall check the project and verify compliance with installation instructions, adjustment of all hardware items, and proper application according to the approved hardware schedule. Hardware supplier shall submit a list of all hardware that has not been installed correctly.

B. After installation has been completed, the hardware supplier and manufacturers representative shall meet with the owner to explain the functions, uses, adjustment, and maintenance of each item of hardware. Hardware supplier shall provide the owner with a copy of all wiring diagrams. Wiring diagrams shall be opening specific and include both a riser diagram and point to point diagram showing all wiring terminations.

3.4 ADJUSTMENT AND CLEANING

A. At final completion, and when H.V.A.C. equipment is in operation, installer shall make final adjustments to and verify proper operation of all door closers and other items of hardware. . Lubricate moving parts with type lubrication recommended by the manufacturer.

B. All hardware shall be left clean and in good operation. Hardware found to be disfigured, defective, or inoperative shall be repaired or replaced.

3.5 HARDWARE SCHEDULE

A. The following schedule of hardware groups are intended to describe opening function. The hardware supplier is cautioned to refer to the preamble of this specification for a complete description of all materials and services to be furnished under this section.

HW SET: 01

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 6 X 16	630	IVE
1	EA	PULL AND PLATE	8302-0 4 X 16	630	IVE
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10 X 1” LDW	630	IVE

HW SET: 02

4	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9480P 06A	626	SCH
1	EA	CYLINDER	MATCH EXISTING KEY SYSTEM		
1	EA	SURFACE CLOSER	4111 SHCUSH	689	LCN
1	EA	SEAL	429A	AL	ZER
1	EA	RAIN DRIP	142A	AL	ZER
1	EA	DOOR SWEEP	8198AA	AL	ZER
1	EA	THRESHOLD	8655A	AL	ZER
1	EA	LOCK GUARD	LG	630	IVE

END OF SECTION

SECTION 09510 - ACOUSTICAL CEILINGS

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

SUMMARY:

Section includes acoustical ceiling tiles and suspension systems as shown and scheduled on drawings and as specified herein. All field-cut tiles shall have machine-finish tegular edges to match factory-made tiles.

Systems include the following:

Lay-in acoustical tiles, typical locations within the building: 2' x 2', 3/4" thick white panels
9/16" T-grid white track system.

SUBMITTALS:

1. Product Data: Manufacturer's technical data and installation instructions.

2. Coordination Drawings: Submit reflected ceiling plans, prepared by Installer showing suspension members, method of anchorage, hangers, and ceiling-mounted work.

3. Samples: Submit 6" square (min.) samples of each acoustical panel type, pattern and color, 12" long samples of exposed runners and moldings for each color and system type required. Provide a minimum of 10 colors for the color grid.

QUALITY ASSURANCE:

1. Fire Performance Characteristics: Provide acoustical ceiling components tested for the following: Surface Burning Characteristics, with flame Spread of 25 or less, Smoke Developed of 50 or less.

2. Coordination of Work: Coordinate layout and installation of acoustical ceiling units and suspension system components with other work supported by, or penetrating through, ceilings, including light fixtures, HVAC equipment, fire-suppression system components (if any), and partition system (if any).

DELIVERY, STORAGE, AND HANDLING:

Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination or other causes.

Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

Handle acoustical ceiling units carefully to avoid chipping edges or damaging units in any way.

PROJECT CONDITIONS:

Space Enclosure: Do not install interior acoustical ceilings until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.

PART 2 - PRODUCTS

MANUFACTURERS

1. Acoustic Tile:

Subject to compliance with requirements specified herein, provide products from one of the following:

Armstrong
Celotex
Pinta Acoustic
USG.

2. Standard Metal Suspension System:

Armstrong.
Chicago Metallic.
Donn.

3. Acoustical Sealant:

Products: Refer to requirements under Section 07900.

MATERIALS:

Standard for Acoustical Ceiling Units: Provide manufacturer's standard units of configuration indicated which are prepared for mounting method designated and which comply with FS SS-S-118 requirements, including those indicated by reference to type, form, pattern, grade (NRC or NIC' as applicable), light reflectance coefficient (LR), edge detail, and joint detail (if any).

Tiles: Subject to requirements, provide products as follows:

Typical locations: Equal to Armstrong “Dune” tile with fine texture, 3/4" x 24" x 24", NRC of 0.50 in white, with tegular edges.

Grid: Subject to requirements, provide products as follows:

Typical locations: 9/16" exposed, white aluminum "T" type grid system, including all main runners, cross tees, wall mouldings and accessories.

Mounting Method for Measuring NRC: No. 7 (mechanically mounted on special metal support), FS SS-S-118; or Type E-400 mounting as per ASTM E 795.

Sound Attenuation Performance: Provide acoustical ceiling units with ratings for ceiling sound transmission class (STC) of range indicated as determined according to AMA 1-II "Ceiling Sound Transmission Test by Two-Room Method" with ceilings continuous at partitions and supported by a metal suspension system of type appropriate for ceiling unit of configuration indicated (concealed for tile, exposed for panels).

Standard for Metal Suspension Systems: Provide metal suspension systems of type, structural classification and finish indicated which comply with applicable ASTM C 635 requirements.

Attachment Devices: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung.

Concrete Inserts: Inserts formed from hot-dipped galvanized sheet steel and designed for attachment to concrete forms and for embedment in concrete, with holes or loops for attachment at hanger wires.

Hanger Wire: Galvanized carbon steel wire, ASTM A 641, soft temper, prestretched, Class 1 coating, sized so that stress at 3-times hanger design loan (ASTM C 635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gage.

Edge Moldings and Trim: Metal or extruded plastic of types and profiles indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations of ceiling which fits with type of edge detail and suspension system indicated.

For lay-in panels with reveal edge details, and all cut/undersized panels, provide stepped edge molding which forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.

For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

PART 3 - EXECUTION

PREPARATION:

Coordination: Furnish layouts for inserts, clips, or other supports required to be installed by other trades for support of acoustical ceilings. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less-than-half width units at borders, and comply with reflected ceiling plans wherever possible.

Review existing conditions and provide products for the continuity of the existing system.

INSTALLATION:

General: Install materials in accordance with manufacturer's printed instructions, and to comply with governing regulations, fire resistance rating requirements as indicated, and CISCA standards applicable to work.

Arrange acoustical units and orient directionally-patterned units (if any) in manner shown by reflected ceiling plans.

Install tile with pattern running in one direction.

Install suspension systems to comply with ASTM C 636, with hangers supported only from building structural members. Locate hangers not less than 6" from each end and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8" in 12'-0".

Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye-screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.

Install hangers plumb and free from contact with insulation or other objects within ceiling plenum which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal force by bracing, countersplaying or other equally effective means.

Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.

Sealant Bed: Apply continuous ribbon of acoustical sealant, concealed on back of vertical leg before installing moldings.

Screw-attach moldings to substrate at intervals not over 16" o.c. and not more than 3" from ends, leveling with ceiling suspension system to tolerance of 1/8" in 12'-0". Miter corners accurately and connect securely.

Install acoustical panels in coordination with suspension system, with edges concealed by support of suspension members. Scribe and cut panels to fit accurately at borders and at penetrations.

Install hold-down clips in areas indicated, and in areas where required by governing regulations or for fire-resistance ratings; space as recommended by panel manufacturer, unless otherwise indicated or required.

CLEANING:

Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09510

City of Maple Grove Law enforcement Training Facility Renovation
Mandatory Pre-bid Meeting – Contractor checklist / agenda May 23, 2012

Submitted by: _____

Company: _____

The following 2 page checklist is to be completed, after this pre-bid meeting, and included as an attachment to the Bid Form. Failure to provide this form with the bid will subject the contractor to rejection. The bidders shall have an opportunity to discuss these and any other items at this pre-bid meeting.

Up until 3 days prior to the Bid Date, the contractor is encouraged to contact the Architect on any uncertainties in preparing the bid, or on any concern regarding the line items included below, so that uncertainties may be cleared up with a final addendum. Failure to answer questions with a "yes" may subject contractor to rejection of their bid.

#	Item	Included
1	All temporary condition items, such as safety, protection, barriers, signage, toilets, power, heat, secure material storage, cutting and patching-in of the work, site monitoring and staking are included in the bid.	
2	An experienced, dedicated site superintendent will be on site daily, whenever demolition or construction activities occur.	
3	The Contractor understands, in submitting this bid, that the Owner reserves the right to have the project superintendent replaced if it becomes evident that the same person is not capable of carrying out the work per the schedule, does not enforce job-site construction quality as specified or disregards safety and permit-compliance concerns.	
4	The site will be maintained on a regular basis and the NPDES / SWPPP requirements will be met at all times. Should unusual weather occur, the conditions will be corrected within 24 hours after the occurrence to ensure that the site remains in compliance with the permit. In the event of a fine, if the Owner is fined, the contractor shall be responsible for all associated owner costs.	
5A	In the box below, indicate the date of Substantial Completion that your company intends to achieve.	NA
5B	Substantial Completion date for the work, except for any weather sensitive items: _____	NA

6	Any delays in the work that are not caused by the Owner/Architect will result in no additional costs to the Owner, even if a time extension is granted, including weather events, labor strikes, and poor sub-contractor performance.	
7	The contractor (and subcontractors / suppliers under contract) shall perform the work nights and weekends, at no additional cost to the Owner, in order to meet the schedule, unless there are acknowledged delays created by the Owner/Architect. If there is an unavoidable delay, within 7 days of occurrence, the contractor shall advise the Architect of the nature and impact of the delay for response by the Architect.	
8	The existing building will be available for demolition and construction activities for the duration of the project. Other facilities on the campus will be in use at various times, night and day, during the project schedule. It is understood that the contractor shall advise the Owner's representative in advance of any major deliveries or construction activities that may impact the city/county operations, and that the city/county activities take priority over demolition, construction and contractor deliveries.	
9	The contractor shall coordinate all testing and special inspections that will be performed separately by consultant working for the Owner.	
10	**Within 48 hours after the Bid Date, the contractor shall provide the Architect with a list of suppliers and subcontractors for review. If determinations for certain sections cannot be made within this time period, the contractor shall provide probable candidates in lieu of a single subcontractor.**	

OERTEL ARCHITECTS

PROJECT CONTACTS:

Architect
Oertel Architects
Project Architect: Eric Werner
(651) 696-5186 ext. 306
ewerner@oertelarchitects.com

Civil Engineer
Foth Infrastructure & Environment
Contact: Karen Erickson
karen.erickson@foth.com
(651) 288-8550

Structural Engineer
Paulson & Clark Engineering
Contact: Dennis Goodno
dgoodno@paulsonclark.com
(651) 407-6056

Mechanical Engineer
Paulson & Clark Engineering
Contact: Rob Lowe
rlowe@paulsonclark.com
(651) 407-6056

Electrical Engineer
Paulson & Clark Engineering
Contact: Andrew Tripp
atripp@paulsonclark.com
(651) 407-6056

Contact for Firing Range Equipment:
Meggitt Training Systems
Contact: Brian L. Danielson - Sales
brian.danielson@meggitt.com
p: (763) 568-7166
f: (763) 568-7167

MAPLE GROVE LAW ENFORCEMENT TRAINING FACILITY PLAN HOLDERS LIST

(updated 05/23/2012)

Bids due May 29th, 2012 @ 2:00pm

THE FOLLOWING GENERAL CONTRACTORS WERE PRESENT AT THE MANDATORY PRE-BID MEETING:

GENERAL CONTRACTORS:	Phone	Fax
1. McFarland Construction	952-936-7662	
2. Ebert Construction	763-498-7844	763-498-9951
3. Jorgenson Construction	763-784-3877	763-784-1583
4. Construction Results	763-559-1100	
5. Black Dew LLC	651-777-4900	
6. J.S. Cates Construction	763-478-8961	
7. W. Gohman Construction Co.	320-363-7781	320-363-7207
8. Parkos Construction	651-455-0031	651-450-7740
9. Rochon Corp.	763-559-9393	763-559-8101
10. Tarraf Construction	612-623-4800	612-623-0995
11. Project One Construction	320-398-7000	320-398-8067
12. Terra General Contractors	763-463-0220	763-463-0290
13. Kue Contractors, Inc.	320-764-2525	320-764-2524
14. CBS Construction Services, Inc.	763-569-4020	763-569-4117
15. Weber Inc.	651-770-5350	651-770-2950
16. A & L Construction	763-424-4380	

THE FOLLOWING ARE SUB-CONTRACTORS (NOT REQUIRED TO ATTEND THE PRE-BID MEETING):

ELECTRICAL CONTRACTORS:	Phone	Fax
1. Erickson Electric	320-251-1501	
2. Southside Electric	952-888-5500	
3. Nies Electric	320-253-6837	

MECHANICAL CONTRACTORS:	Phone	Fax
1. Environ Con	320-253-1106	320-253-9047
2. Gorham Oien Mechanical	320-679-1612	320-679-1619
3. SCR	320-258-5146	
4. Exhibit Plumbing	763-302-9146	

FIRE PROTECTION CONTRCT'S:	Phone	Fax
1. Quality Design & Fire Protection	320-250-1302	