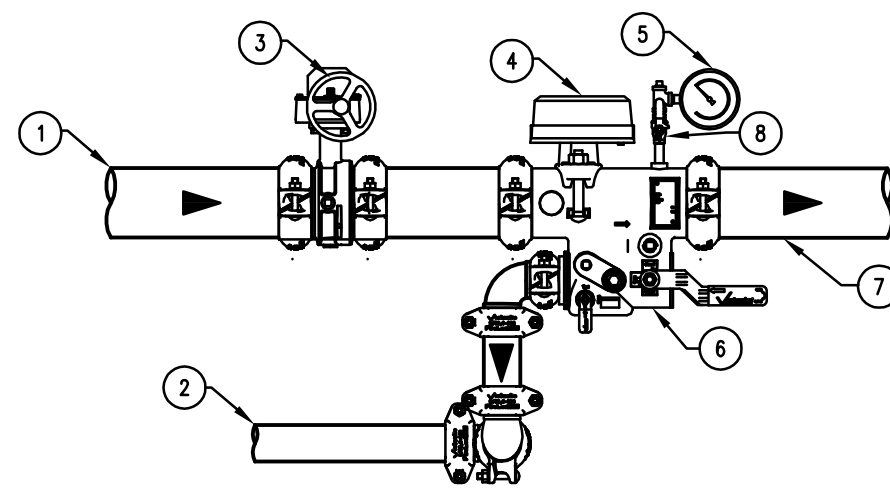


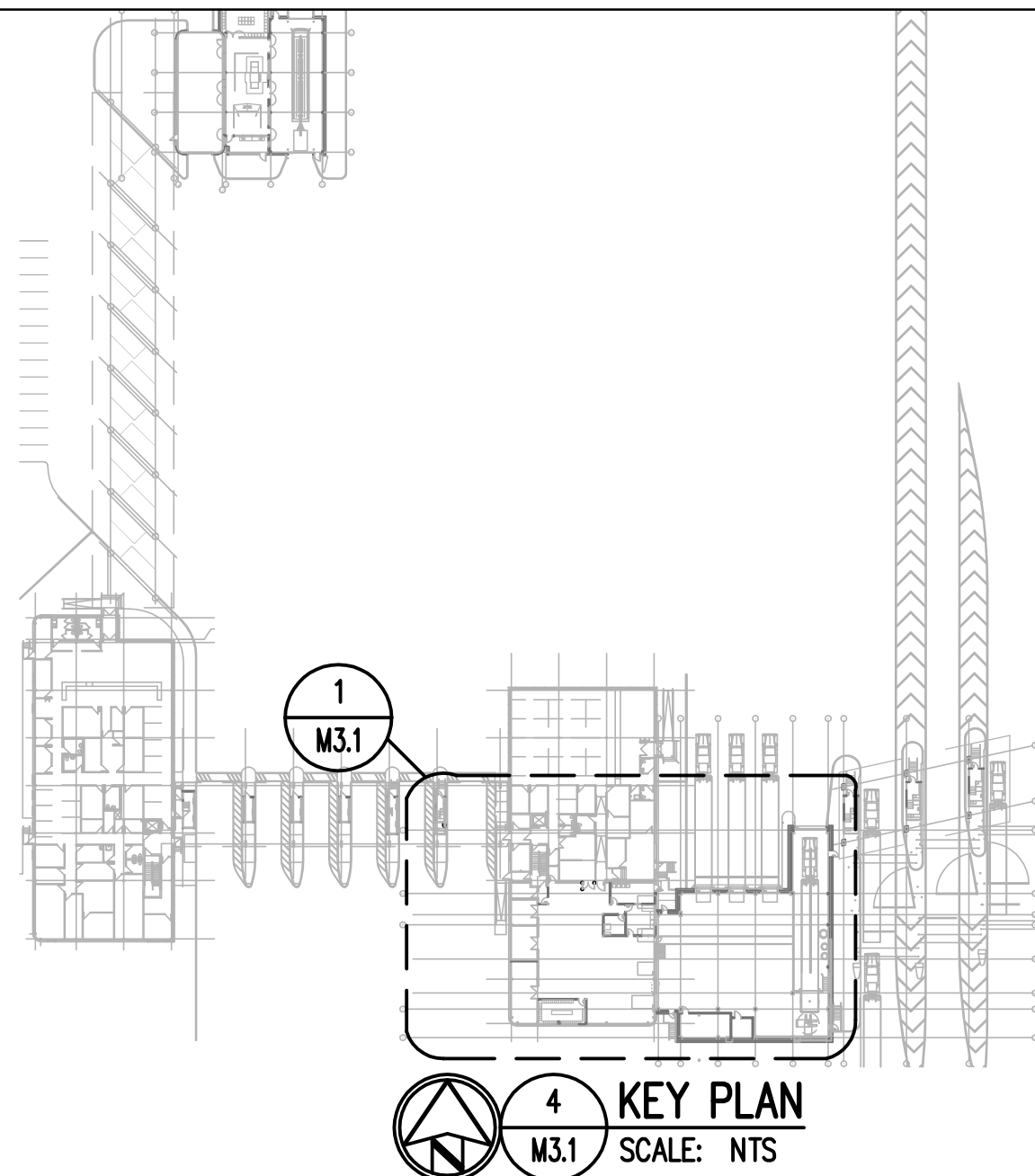
2 WAREHOUSE SPRINKLER ELEVATION
SCALE: 1:100

- GENERAL NOTES:**
- THIS DRAWING IS DIAGRAMMATIC ONLY. DO NOT SCALE.
 - THE MECHANICAL SYSTEMS SHOWN ARE APPROXIMATE IN LOCATION ONLY. CONTRACTOR TO VERIFY EXACT LOCATION OF SYSTEMS BEING MODIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
 - CONTRACTOR TO MAINTAIN CURRENT AND READILY REVIEWABLE AS-BUILT DRAWINGS ACCURATELY REFLECTING SITE INSTALLATIONS.
 - CONTRACTOR TO MAINTAIN DIGITAL PHOTOGRAPHIC RECORD OF ALL INSTALLATIONS PRIOR TO CONCEALMENT BY SUPPORTING TRADES.
 - CONTRACTOR TO COORDINATE ALL NEW SPRINKLER PIPING WITH ALL EXISTING AND NEW SYSTEMS, ALONG WITH NEW ARCHITECTURAL CEILING HEIGHTS. THERE SHALL BE NO EXTRAS TO THE CONTRACT TO COMPLETE THIS WORK.
 - CONFORM TO NFPA CODE STANDARDS AS PER SPRINKLER HEAD LOCATION AND COVERAGE. REFER TO ALL CONTRACT DRAWINGS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, FOR FINAL HEAD CO-ORDINATION. WHERE SPRINKLER HEADS ARE REQUIRED AND ARE NOT SPECIFICALLY SHOWN ON THESE DOCUMENTS IN NEW OR RETROFITTED AREAS THESE SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL COST TO THIS CONTRACT.
 - REVIEW SITE FOR EXISTING CONDITIONS AND HEAD COUNT PRIOR TO SUBMISSION OF TENDERS.
 - FIRE PROTECTION CONTRACTOR TO ROUTE NEW PIPING TO MAINTAIN AS MUCH CLEAR CEILING SPACE AS POSSIBLE FOR DUCTWORK, PLUMBING, LIGHTING, POWER AND DATA SYSTEMS. PROVIDE OFFSETS AS REQUIRED AT STRUCTURAL COMPONENTS TO ALLOW FOR THIS. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND SUB CONTRACTORS THERE OF TO FINALIZE ROUTING AND ELEVATION ON SITE PRIOR TO INSTALLATION.
 - REFER TO PROJECT SPECIFICATIONS FOR EXISTING DESIGN CRITERIA.
 - PIPE SIZES BY FIRE PROTECTION CONTRACTOR.
 - EXISTING FIRE PROTECTION SYSTEMS ARE SUPPLIED WITH WATER FROM A WATER CISTERN AND 1892 L/M (500 GPM) FIRE PUMP. FIRE PROTECTION CONTRACTOR SHALL EXAMINE THE EXISTING SITE CONDITIONS AND PROVIDE IF REQUIRED ALL FLOW TESTS ON SITE PRIOR TO COMMENCING WITH HYDRAULIC DESIGN OF NEW SYSTEMS.



DETAIL LEGEND	
1	FROM SPRINKLER MAIN LINE
2	SPRINKLER SYSTEM DRAIN
3	BUTTERFLY VALVE C/W TAMPER SWITCH
4	WATER FLOW SWITCH
5	PRESSURE GAUGE
6	ZONE CONTROL RISER MODULE C/W SHUT-OFF VALVE, SIGHT GLASS, TEST & DRAIN VALVE AND DRAIN CONNECTION
7	TO SPRINKLER SYSTEM ZONE
8	ISOLATION VALVE FOR GAUGE

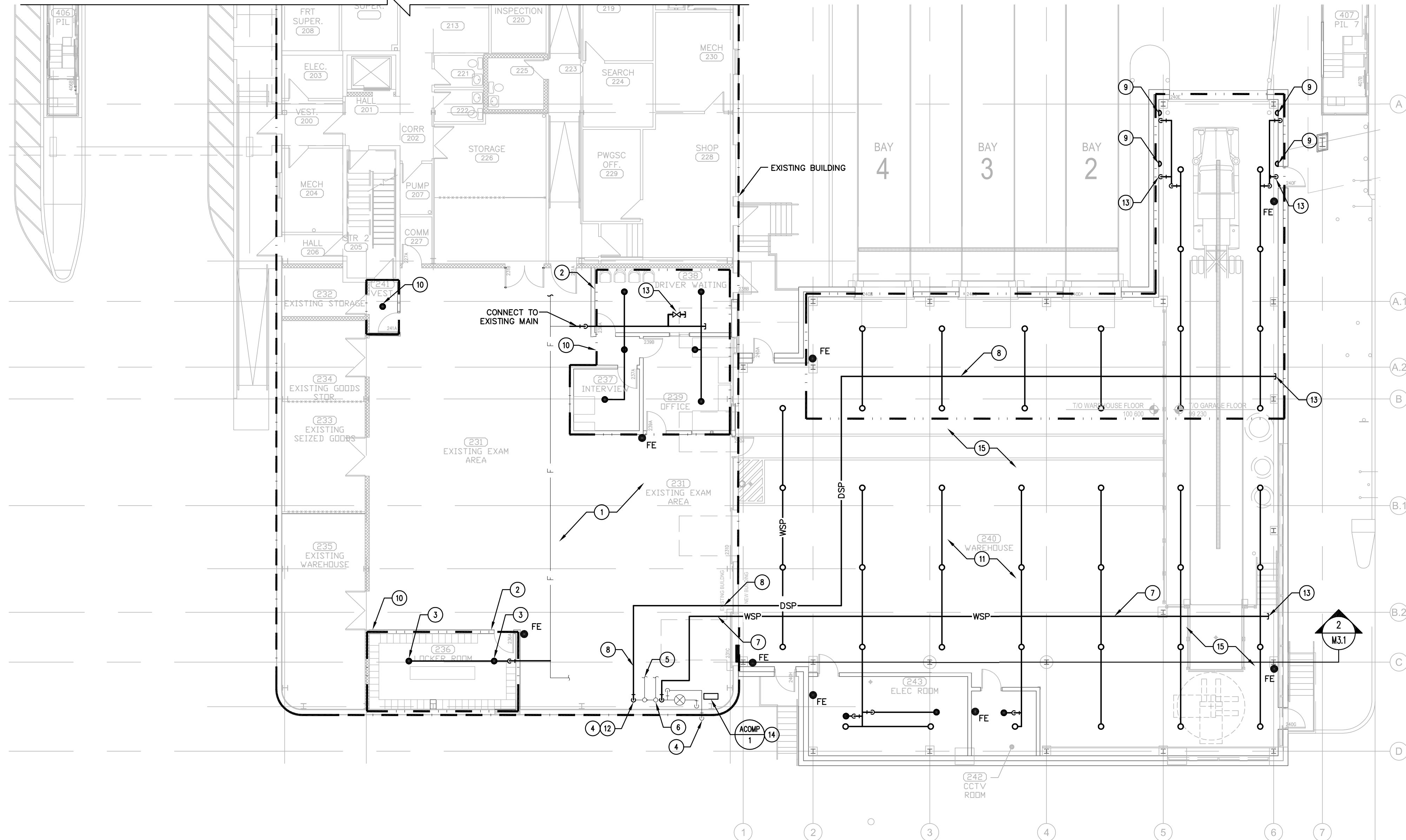
3 INSPECTOR TEST / FLOW STATION DETAIL
SCALE: NTS



4 KEY PLAN
SCALE: NTS

DRAWING NOTES:

- EXISTING SPRINKLER HEADS IN WAREHOUSE ARE TO REMAIN.
- MODIFY AND ADJUST EXISTING SPRINKLER HEADS AND PIPING ALONG NEW WALL. PROVIDE ADDITIONAL DROPS AND HEADS AS REQUIRED.
- PROVIDE NEW SPRINKLER HEAD. COORDINATE LOCATION WITH LIGHTING, AND EXISTING SPRINKLER HEADS. CONNECT TO EXISTING SPRINKLER SYSTEM AT HIGH LEVEL. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILINGS.
- EXISTING FIRE PROTECTION VALVE STATION TO REMAIN. CONNECT NEW ZONES TO EXISTING VALVE HEADER. PROVIDE NEW DRY SPRINKLER TAIL END AUTO VALVE AND AIR COMPRESSOR. PROVIDE TEST AND SYSTEM DRAIN AND EXTEND TO EXISTING 500# DRAIN.
- EXISTING TRAVELLERS BLDG. WET ZONE ON SPRINKLER TREE.
- EXISTING COMMERCIAL BUILDING WET ZONE ON SPRINKLER TREE.
- NEW WET SPRINKLER PIPE AND ZONE TO THE WAREHOUSE EAST ADDITION.
- NEW AUTO DRY SPRINKLER PIPE TO THE WAREHOUSE ADDITION LOADING BAYS.
- OUTLINE OF DRY SPRINKLER ZONE. PROVIDE SIDEWALL HEADS FOR COVERAGE, BELOW LOADING BAY. DOORS IN ORDER TO MAINTAIN SPRINKLER COVERAGE WHEN DOORS OPEN IN HORIZONTAL POSITION.
- PROVIDE NEW PENDANT SPRINKLER HEADS IN THE CEILING BELOW. EXISTING UPRIGHT SPRINKLER HEADS ABOVE CEILING ARE TO REMAIN. PROVIDE ADDITIONAL DROPS AND HEADS AS REQUIRED. CONNECT TO EXISTING MAIN ABOVE.
- AREA TO BE FULLY SPRINKLERED WITH WET SYSTEM.
- NEW SPRINKLER AUTO DRY SYSTEM INCLUDING, BUT NOT LIMITED TO, AUTO DRY VALVE, AIR PRESSURE SWITCHES, ALARMS, AIR COMPRESSOR BY FIRE PROTECTION CONTRACTOR. ALSO SEE NOTE 14.
- PROVIDE LOW POINT DRAINS IN ACCORDANCE TO NFPA CODES AND INDUSTRY STANDARDS.
- PROVIDE NEW AIR COMPRESSOR FOR TAIL END DRY. LOADING BAY SPRINKLER. REFER TO ELECTRICAL FOR VOLTAGES AVAILABLE.
- PROVIDE ADDITIONAL DRY OR WET SPRINKLER HEADS BELOW HVAC GREATER THAN 1220MM IN WIDTH. REFER TO HVAC DRAWINGS FOR DUCT ARRANGEMENTS.
- PROVIDE NEW WET SYSTEM ZONE. REFER TO DETAIL 3/M3.1.



1 WAREHOUSE FIRE PROTECTION - RENOVATION PLAN
SCALE: 1:125

10605



APECM
Certificate of Authorization
MCW/AGE Consulting
Professional Engineers
No. 589 Expiry: April 30, 2017

DO NOT SCALE DRAWINGS

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR CONSTRUCTION	2016/11/02

PUBLIC WORKS AND GOVERNMENT SERVICES AGENCY

Project title/Titre du projet
**EMERSON, MANITOBA
HIGHWAY 75, UNITED STATES BORDER
EXPANSION AND
REDEVELOPMENT OF THE
EMERSON PORT OF ENTRY**

Approved by/Approuvé par
AL
Designed by/Concept par
CD/AL
Drawn by/Dessiné par
KL
PWGSC Project Manager/Administrateur de Projets TPSGC
JAMES HUTCHINGS
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC
Client/client

Drawing title/Titre du dessin
**WAREHOUSE FIRE PROTECTION -
RENOVATION PLAN**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.068431.001	M3.1 4 OF 11	0