



Environment and Climate
Change Canada

Real Property Management Division
Technical Services

Environnement et Changement
Climatique Canada

Services d'architecture
Services Techniques

MIDLAND, ONTARIO.
WYE MARSH WILDLIFE CENTRE

LIGHTING RETROFIT AND
WASHROOM RENOVATION
ECCC Proj. No.: WYE-003

Canada

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ARCHITECTURAL

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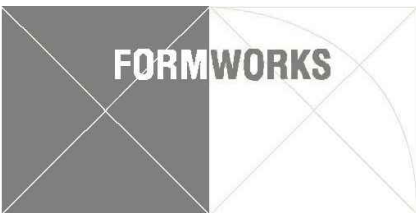
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MECHANICAL

- M-1 MECHANICAL_UPPER_FLOOR_KEYPLAN
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- M-6 SCHEDULES
- M-7 MECHANICAL_DEMOLITION_UPPER_FLOOR_PLAN
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Formworks, Inc. Architects

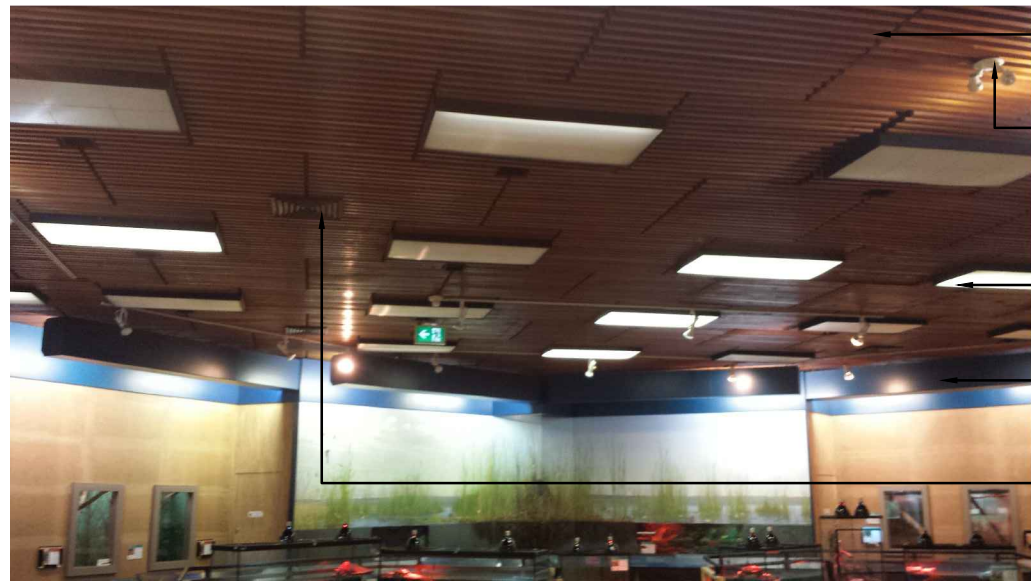
63 Collier Street Barrie, Ontario L4M 1G7
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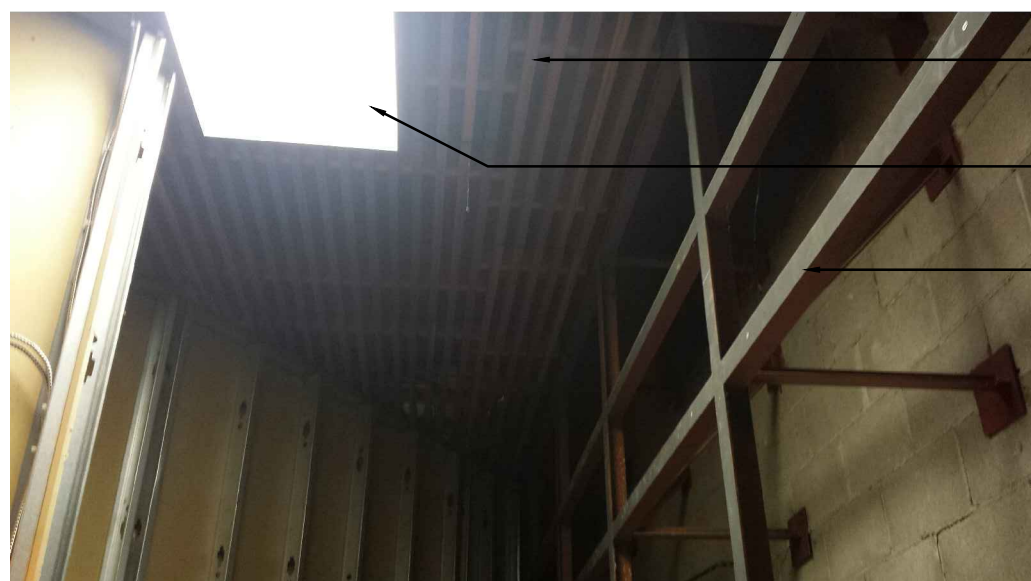
(div. of 804802 Ontario Inc.)
375 BREWERY LANE ORILLIA ONTARIO L3V 7H8
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5 PHOTOGRAPH: LOBBY 100



6 PHOTOGRAPH: DISPLAY HALL 108



7 PHOTOGRAPH: DISPLAY HALL 108



8 PHOTOGRAPH: FRONT ENTRANCE

EXISTING WOOD CEILING TO BE REMOVED AND DISPOSED OF

EXISTING CEILING MOUNTED EXIST SIGNS, DETECTORS, & EMERGENCY LIGHTS TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION IN NEW ACT CEILING

EXISTING LIGHT FIXTURES TO BE REMOVED AND DISPOSED OF

EXISTING WOOD CEILING TO BE REMOVED AND DISPOSED OF

EXISTING CEILING MOUNTED EXIST SIGNS, DETECTORS, & EMERGENCY LIGHTS TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION IN NEW ACT CEILING

EXISTING LIGHT FIXTURES TO BE REMOVED AND DISPOSED OF

EXISTING BULKHEADS TO REMAIN

EXISTING AIR SUPPLY AND RETURN DIFFUSERS TO BE REMOVED AND DISPOSED OF

EXISTING WOOD CEILING TO BE REMOVED AND DISPOSED OF

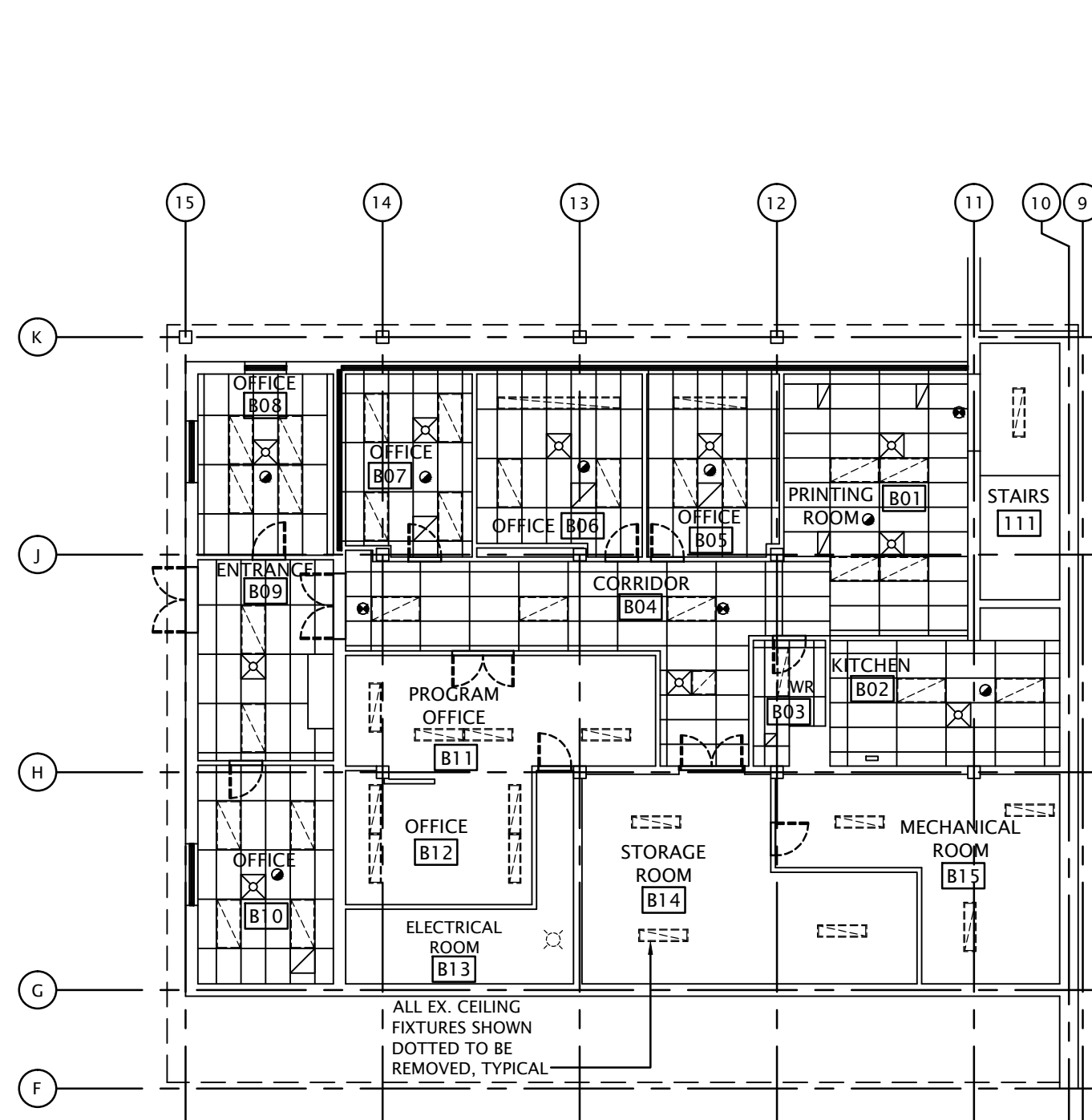
EXISTING LIGHT FIXTURES TO BE REMOVED AND DISPOSED OF

EXISTING STEEL STRUCTURE TO REMAIN

EXISTING WOOD FASCIA TO REMAIN, TYPICAL

EXISTING WOOD SOFFIT TO BE REMOVED AND REPLACED WITH NEW PRE-FINISHED ALUMINUM SOFFIT, TYPICAL

EXISTING LIGHT FIXTURES MOUNTED ON SOFFIT TO BE REMOVED, TYPICAL

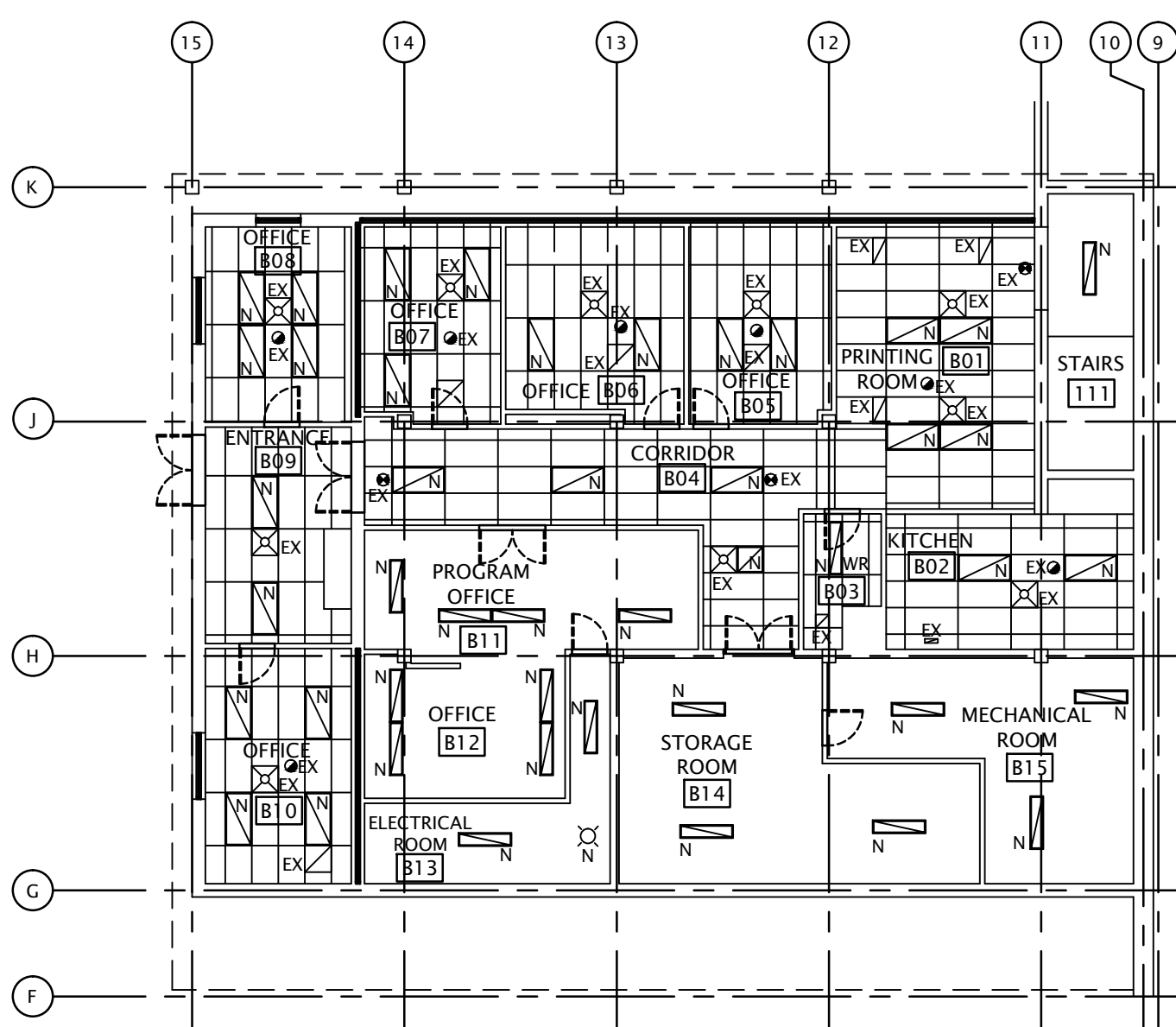


2 DEMOLITION REFLECTED CEILING PLAN: BASEMENT
SCALE: 1:150

- LEGEND**
- 305 x 1220 FLUORESCENT LIGHT FIXTURE
 - 610 x 1220 FLUORESCENT LIGHT FIXTURE
 - CEILING MOUNTED LIGHT FIXTURE
 - SUPPLY AIR DIFFUSER
 - RETURN AIR DIFFUSER
 - CEILING MOUNTED EXIT SIGN
 - CEILING MOUNTED SMOKE DETECTOR

DEMOLITION NOTES:

- ALL EXISTING CEILING FIXTURES SHOWN DOTTED TO BE REMOVED & DISPOSED OF, TYPICAL
- ALL MATERIAL DESIGNATED FOR REMOVAL TO BE DISPOSED OF OFF SITE BY CONTRACTOR
- COORDINATE ALL CEILING FIXTURE LOCATIONS WITH ELECTRICAL

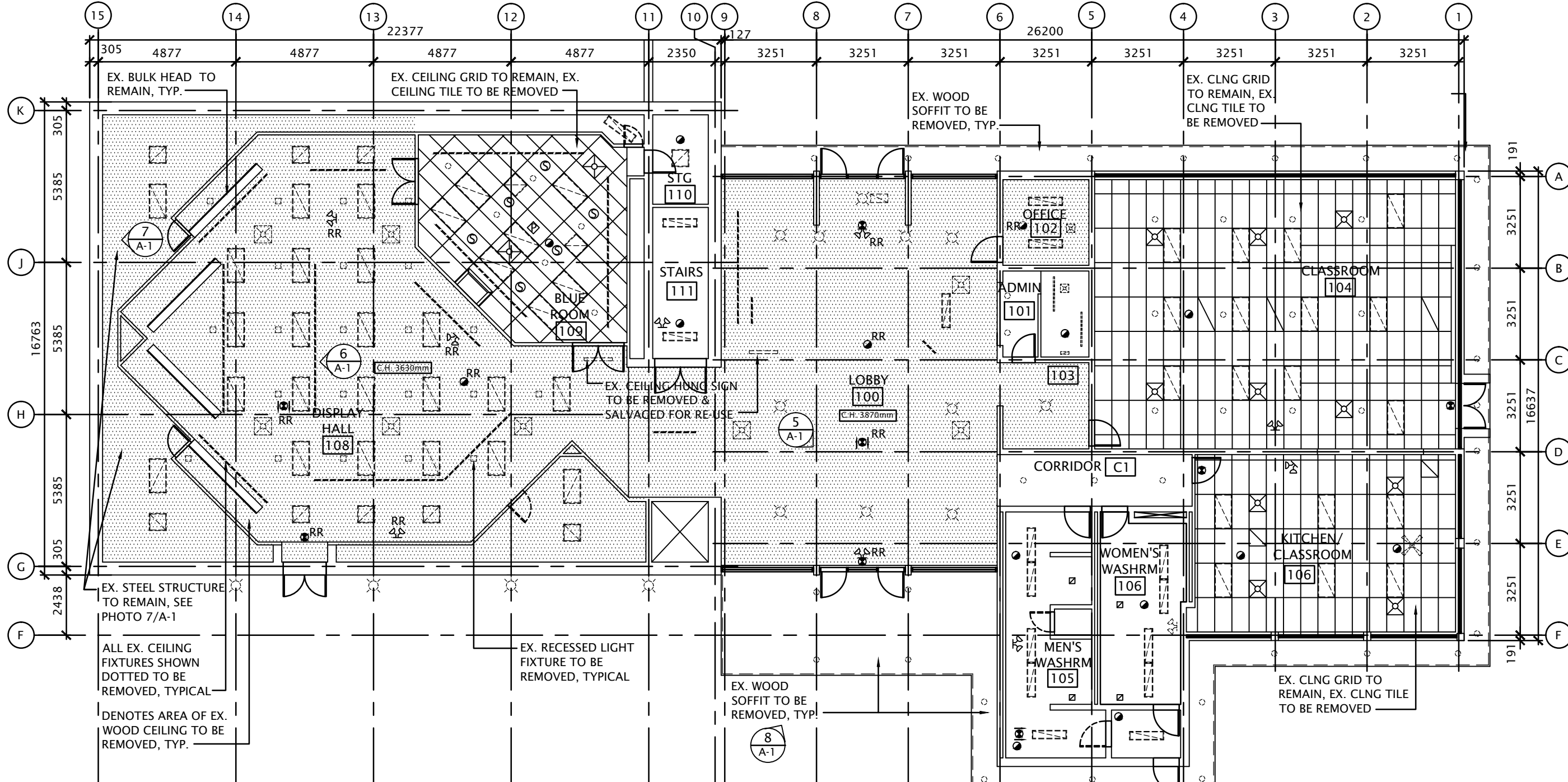


4 REFLECTED CEILING PLAN: BASEMENT
SCALE: 1:150

- LEGEND**
- LIGHT FIXTURE, REFER TO ELECTRICAL DWGS FOR TYPE
 - LIGHT FIXTURE, REFER TO ELECTRICAL DWGS FOR TYPE
 - LIGHT FIXTURE, REFER TO ELECTRICAL DWGS FOR TYPE
 - SUPPLY AIR DIFFUSER
 - RETURN AIR DIFFUSER
 - CEILING MOUNTED EXIT SIGN
 - CEILING MOUNTED SMOKE DETECTOR
 - N DENOTES NEW FIXTURE
 - EX DENOTES EXISTING FIXTURE TO REMAIN

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ELECTRICAL DRAWINGS. COORDINATE LOCATION OF ALL CEILING FIXTURES WITH ELECTRICAL DRAWINGS.
- PATCH AND REPAIR ALL DAMAGE TO EXISTING SURFACES AS A RESULT OF REMOVALS
- RE-INSTALL ALL EXISTING ELECTRICAL AND MECHANICAL FIXTURE IN NEW CEILING, TYPICAL



1 DEMOLITION REFLECTED CEILING PLAN: MAIN FLOOR
SCALE: 1:150

- LEGEND**
- 1220mm x 610mm LIGHT FIXTURE
 - 610mm x 610mm LIGHT FIXTURE
 - CEILING MOUNTED / RECESSED LIGHT FIXTURE
 - CEILING FAN W/ LIGHT
 - TRACK LIGHTING
 - SUPPLY AIR DIFFUSER
 - RETURN AIR DIFFUSER

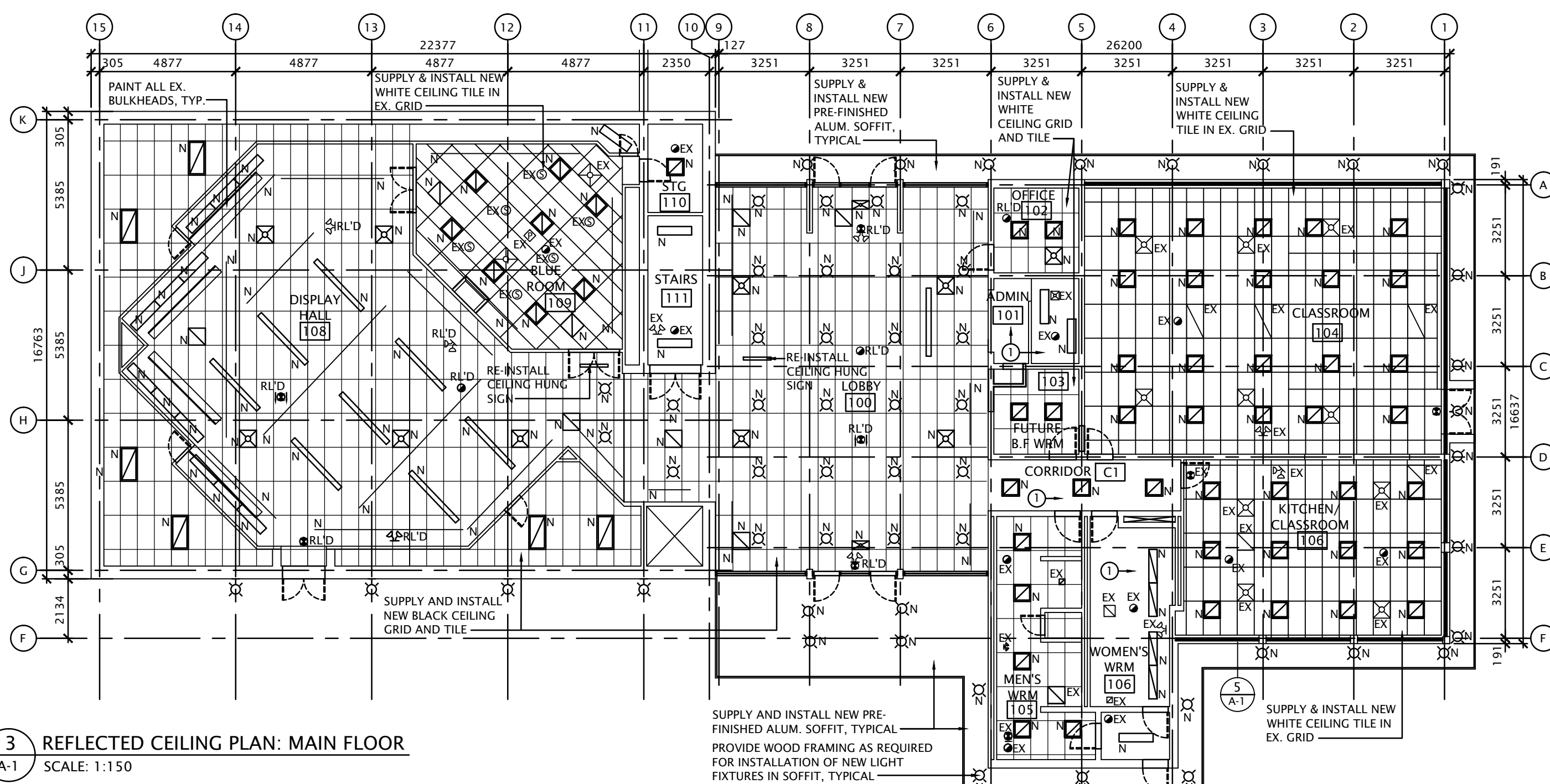
- CEILING MOUNTED EXIT SIGN WITH DIRECTIONAL ARROW
- CEILING MOUNTED SMOKE DETECTOR
- EMERGENCY LIGHTING
- SPEAKER
- RECESSED LIGHT FIXTURE
- EXISTING FIXTURE TO BE REMOVED AND RELOCATED/RE-INSTATED
- EXISTING WOOD SOFFIT TO BE REMOVED AND DISPOSED OF

DEMOLITION NOTES:

- ALL EXISTING CEILING FIXTURES SHOWN DOTTED TO BE REMOVED & DISPOSED OF, TYPICAL
- ALL MATERIAL DESIGNATED FOR REMOVAL TO BE DISPOSED OF OFF SITE BY CONTRACTOR
- COORDINATE ALL CEILING FIXTURE LOCATIONS WITH ELECTRICAL
- EXISTING WOOD CEILING & SUPPORTS TO BE REMOVED FROM LOBBY 100, OFFICE 102, FUTURE BARRIER FREE WASHROOM 103, & DISPLAY HALL 108. PROVIDE TEMPORARY SUPPORT FOR EXISTING CEILING MOUNTED FIXTURES TO REMAIN AS REQ'D.
- EXISTING WOOD SOFFIT TO BE REMOVED AND DISPOSED OF

DEMOLITION NOTES: continued.

- PATCH AND REPAIR ALL DAMAGE TO EXISTING FINISHES TO REMAIN DUE TO REMOVALS
- PATCH, REPAIR, & PAINT ALL DAMAGE TO EXISTING GYPSUM BOARD CEILINGS AND WALL SURFACES AS A RESULT OF REMOVALS
- EXISTING CEILING FIXTURES TO BE RE-INSTALLED IN NEW ACOUSTIC CEILING TILE AT ALL AREAS TO RECEIVE NEW ACT.



3 REFLECTED CEILING PLAN: MAIN FLOOR
SCALE: 1:150

- LEGEND**
- SUSPENDED LIGHT FIXTURE
 - 610mm x 610mm LIGHT FIXTURE
 - CEILING MOUNTED / RECESSED LIGHT FIXTURE
 - WALL MOUNTED LIGHT FIXTURE
 - TRACK LIGHTING
 - SUPPLY AIR DIFFUSER
 - RETURN AIR DIFFUSER

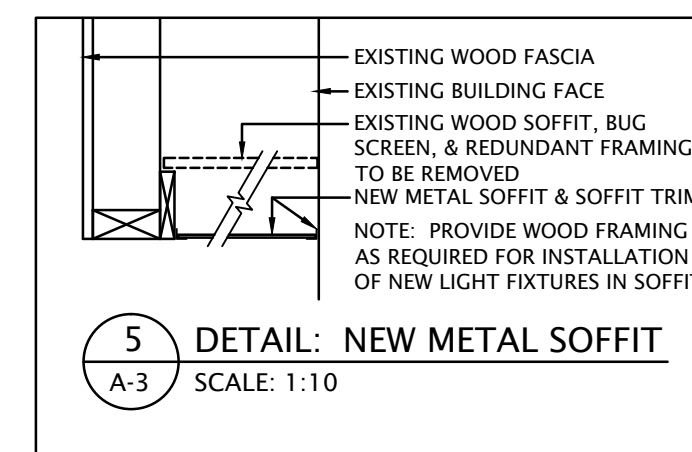
- CEILING MOUNTED EXIT SIGN WITH DIRECTIONAL ARROW
- CEILING MOUNTED SMOKE DETECTOR
- EMERGENCY LIGHTING
- SPEAKER
- ACCESS HATCH
- RELOCATED FIXTURE
- N NEW FIXTURE
- EX EXISTING FIXTURE

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ELECTRICAL DRAWINGS. COORDINATE LOCATION OF ALL CEILING FIXTURES WITH ELECTRICAL DRAWINGS.
- PROVIDE NEW PRE-FINISHED ALUMINUM SOFFIT, REPAIR ALL SURFACES DUE TO REMOVALS TO ACCEPT NEW SOFFIT.
- PATCH AND REPAIR ALL DAMAGE TO EXISTING FINISHES TO REMAIN DUE TO REMOVALS
- PATCH, REPAIR, & PAINT ALL DAMAGE TO EXISTING GYPSUM BOARD CEILINGS AND WALL SURFACES AS A RESULT OF REMOVALS
- EXISTING CEILING FIXTURES TO BE RE-INSTALLED IN NEW ACOUSTIC CEILING TILE AT ALL AREAS TO RECEIVE NEW ACT.

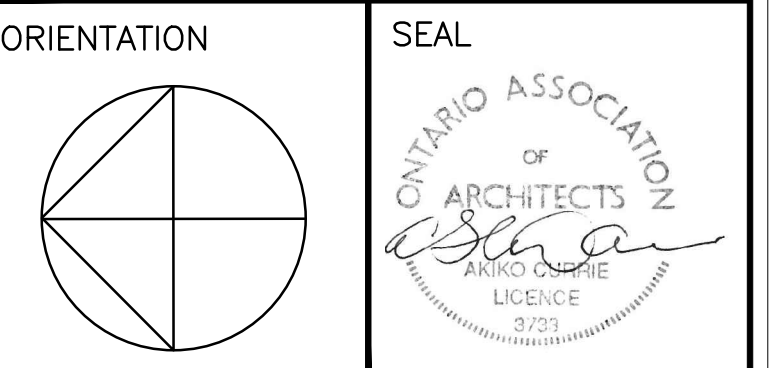
KEY NOTES:

- EXISTING CEILING TO BE PAINTED



5 DETAIL: NEW METAL SOFFIT
SCALE: 1:10

The Contractor shall check and verify all dimensions and report all errors and omission to the Architect for written direction before proceeding with the work.



04		
03		
02		
01	ISSUED_FOR_TENDER	03JUN/16
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

- A Detail No.
B No. du détail
C drawing no. - where detail required
D dessin no. - où détail exigé
E drawing no. - where detailed
F dessin no. - où détaillé

project title
titre du projet
MIDLAND WYE MARSH WILDLIFE CENTER
16160 HIGHWAY 12 EAST
MIDLAND, ONTARIO
LIGHTING RETROFIT & WASHROOM RENOVATION
drawing title
titre du dessin
REFLECTED CEILING PLANS

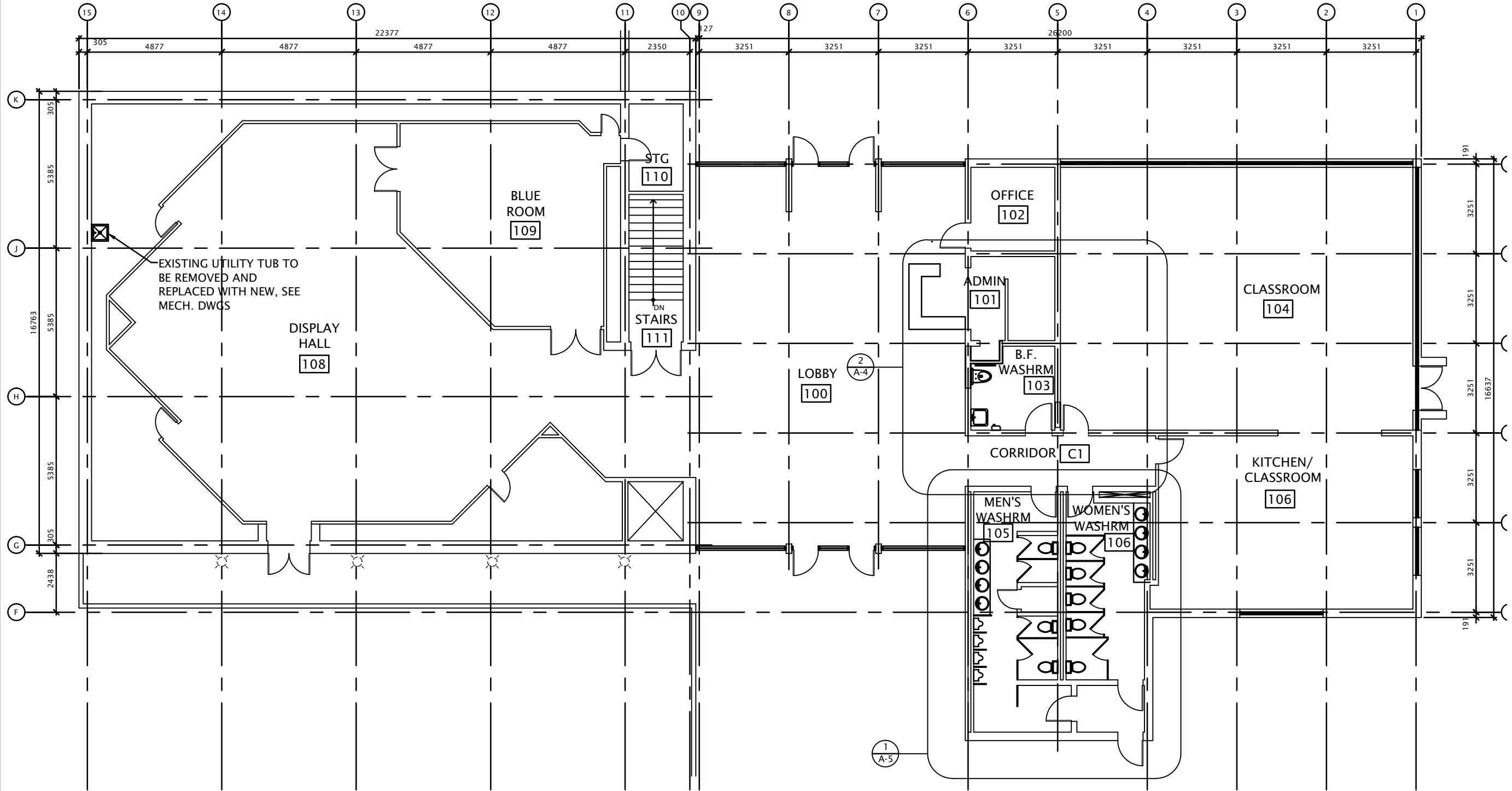
drawn by
dessiné par
KB
designed by
conc par
KC
approved by
approuvé par
AC

tender
soumission
project manager
administrateur de projets
ROD_KHALED

project date
date du projet
06/03/2016

project no.
no. du projet
WYE-003

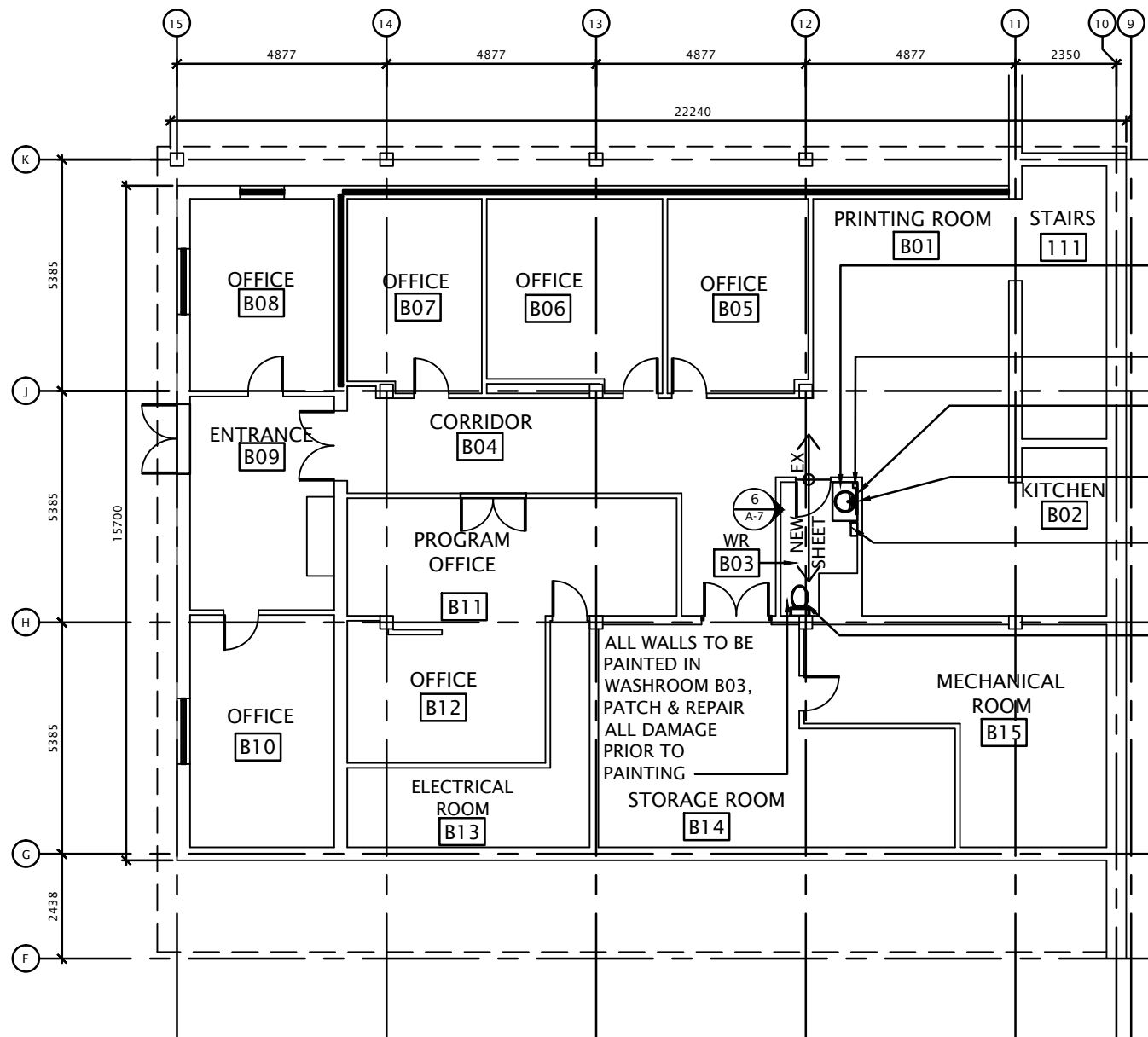
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A-1



GENERAL NOTES:

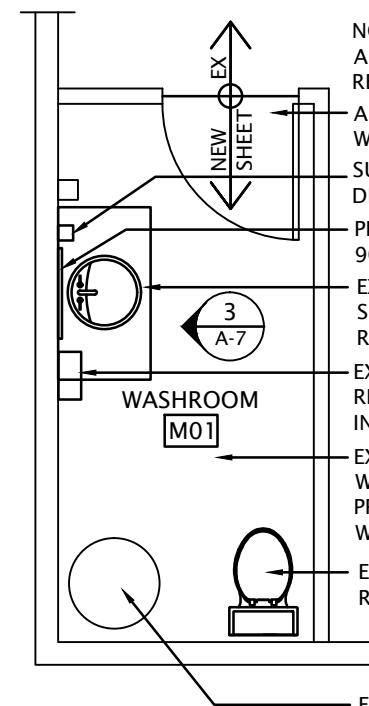
1. PROVIDE AND INSTALL 2 PORTABLE TRAILER WASHROOMS - 1 MEN AND 1 WOMEN (MIN 5 TOILETS IN EACH). GENERAL CONTRACTOR (GC) TO PROVIDE POWER AND WATER HOOK UPS FOR DURATION OF USE. GC SHALL INCLUDE RENTAL FOR A DURATION UP TO 4 MONTHS (CONSIDER WINTER CONDITIONS FOR THE OPERATION OF THE TEMPORARY TRAILERS), REGULAR PUMP-OUTS AND DISCONNECTION OF THE UNITS UPON THE COMPLETION OF THE RENTAL AND RETURN TRAILER TO RENTAL COMPANY;
2. GC TO REPAIR ALL ROOFING TO MATCH EXISTING TYPE AS MAY BE REQUIRED FOR NEW OPENINGS.

03JUN/16 project date date du projet	KB drawn by dessiné par	WYE-003 project no. no. du projet	A-2 drawing no. dessiné no.		
				designed by conçu par	approved by approuvé par
MAIN_FLOOR_PLAN					
drawing title titre du dessin					
project title titre du projet					
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION					
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques					
seal sceau					



1 BASEMENT PLAN
A-3 SCALE: 1:150

- EX. VCT FLOOR FINISH AND RB WALL BASE TO BE REMOVED, PROVIDE NEW SHEET FLOORING WITH RB WALL BASE
- SUPPLY AND INSTALL NEW SOAP DISPENSER
- EX. MIRROR TO BE REMOVED AND REPLACED W/ NEW 600mm (W) x 900mm (H) MIRROR
- EX. SINK, VANITY, & P.LAM COUNTERTOP TO BE REMOVED AND REPLACED WITH NEW
- EX. PAPER TOWEL DISPENSER TO BE RELOCATED TO ACCOMMODATE INSTALLATION OF NEW MIRROR
- EX. TOILET TO BE REMOVED AND REPLACED, SEE MECH. DWGS
- ALL WALLS TO BE PAINTED IN WASHROOM B03, PATCH & REPAIR ALL DAMAGE PRIOR TO PAINTING



2 MAINTENANCE SHOP: WASHROOM PLAN
A-3 SCALE: 1:50

- NOTE: UTILITY TUB IN ADJACENT ROOM TO BE REPLACED, SEE MECH. DWGS
- ALL WALLS TO BE PAINTED IN WASHROOM M01
- SUPPLY & INSTALL NEW SOAP DISPENSER
- PROVIDE NEW 600mm (W) x 900mm (H) MIRROR
- EXISTING 1140mm (W) VANITY, SINK, P.LAM COUNTERTOP TO BE REPLACED WITH NEW
- EX. PAPER TOWEL DISPENSER TO BE RELOCATED TO ACCOMMODATE INSTALLATION OF NEW MIRROR
- EX. VCT FLOOR FINISH AND RB WALL BASE TO BE REMOVED, PROVIDE NEW SHEET FLOORING WITH RB WALL BASE
- EX. TOILET TO BE REMOVED AND REPLACED, SEE MECH. DWGS
- EX. HOT WATER TANK TO BE REMOVED AND RE-INSTALLED AS REQ'D TO ACCOMMODATE REPLACEMENT OF FLOORING

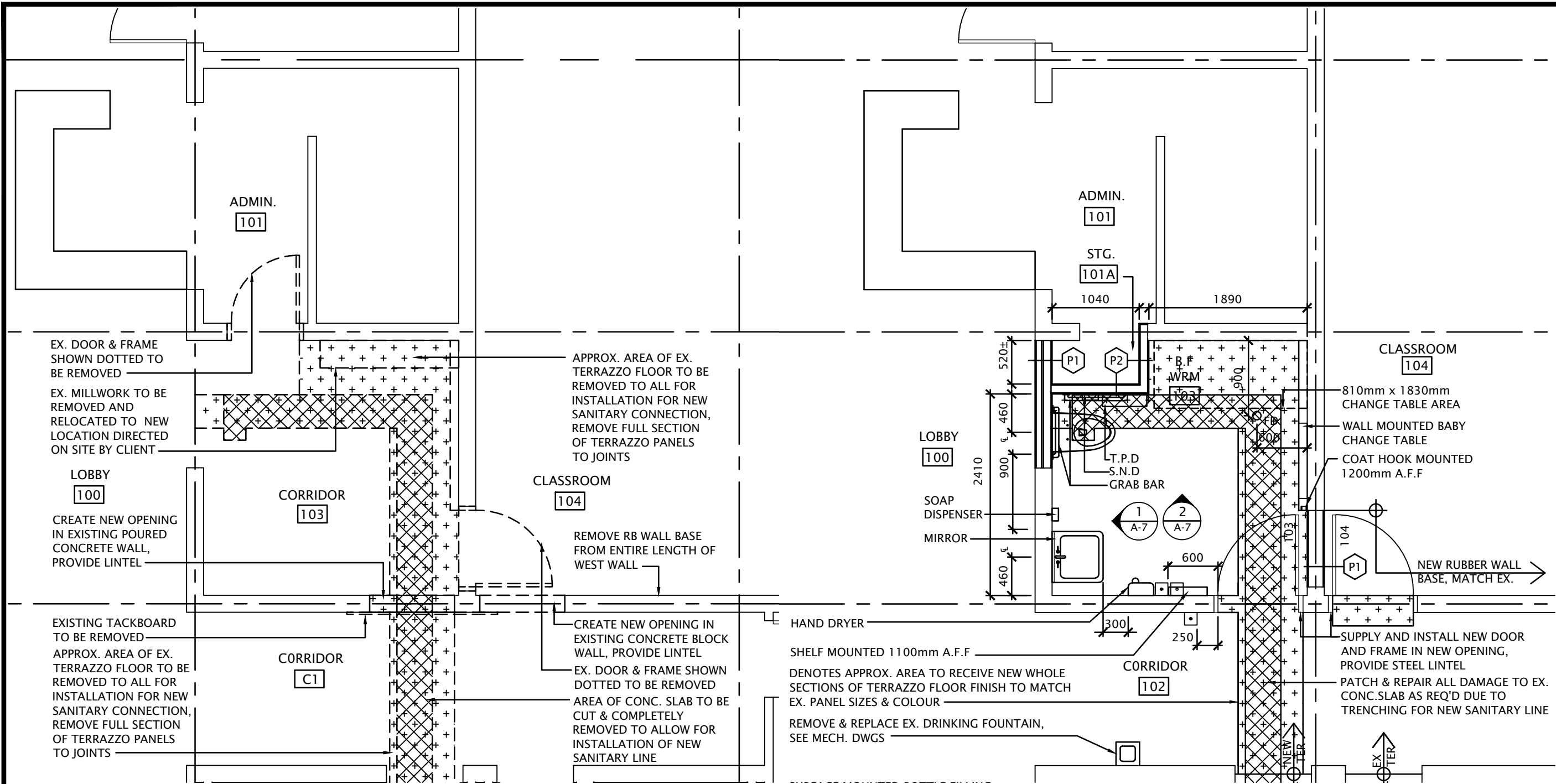
03JUN/16	project date	date du projet
KB	drawn by	dessiné par
WYE-003	designed by	conçu par
no. du projet	project no.	no. du projet
ROD_KHALED	approved by	approuvé par
project manager	tender	administrateur de projets
A-3	drawing no.	dessiné no.

BASEMENT_FLOOR_PLAN
& MAINTENANCE_SHOP:
WASHROOM_PLAN

MIDLAND
ONTARIO
16160 HIGHWAY 12 EAST
WYE MARSH WILDLIFE CENTRE
LIGHTING RETROFIT AND
WASHROOM RENOVATION

Environment and Climate
Change Canada
Real Property Management Division
Technical Services
Environnement et Changement
Climatique Canada
Division Gestion des Biens Immobilier
Services Techniques





1 DEMOLITION PLAN: UNIVERSAL WASHROOM
A-4 SCALE: 1:50

- LEGEND:**
- EXISTING PARTITION TO REMAIN
 - EXISTING PARTITION TO BE REMOVED

- DEMOLITION NOTES:**
- REMOVE ALL PARTITIONS, DOORS, MILLWORK, ETC. SHOWN DOTTED.
 - DISPOSE OF ALL MATERIALS NOT DESIGNATED FOR SALVAGE OFF SITE.
 - PROVIDE NEW LINTELS FOR ALL NEW OPENINGS IN CONC. WALLS.
 - WHOLE PANELS OF TERRAZZO FLOOR TO EXISTING JOINTS TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW SANITARY CONNECTION.
 - CUT EXISTING TERRAZZO FLOOR AS REQ'D AT ALL EXISTING PARTITIONS TO BE REMOVED FOR REMOVAL OF TERRAZZO WALL BASE.
 - EXISTING CONCRETE SLAB TO BE SCANNED PRIOR TO CUTTING.

2 FLOOR PLAN: UNIVERSAL WASHROOM
A-4 SCALE: 1:50

- LEGEND:**
- EXISTING PARTITION
 - NEW PARTITION
 - BARRIER FREE DOOR ACTUATOR
 - EMERGENCY PUSH BUTTON
- PARTITION TYPES:**
- P1 15.9mm GYPSUM BD ON 92mm STEEL STUDS @ 400mm O.C. W/ SOUND ATTENUATION BATTS, SPACE (AS REQ'D TO MATCH EXISTING WALL THICKNESS), 64mm STEEL STUDS @ 400mm O.C., 15.9mm GYPSUM BD.
 - P2 15.9mm GYPSUM BD, BOTH SIDES, ON 92mm STEEL STUDS @ 400mm O.C. W/ SOUND ATTENUATION BATTS
- GENERAL NOTES:**
- PATCH AND REPAIR ALL DAMAGE TO EXISTING WALL, CEILING, AND FLOOR SURFACES AS A RESULT OF REMOVALS, TYPICAL.
 - PATCH AND REPAIR ALL DAMAGE TO EXISTING FINISHES TO REMAIN AS A RESULT OF REMOVALS, TYPICAL.
 - SUPPLY AND INSTALL NEW PLUMBING FIXTURES, SEE MECHANICAL DWGS.
 - PATCH AND REPAIR AREAS OF EXISTING GYPSUM BOARD AS REQ'D DUE TO CREATION OF NEW DOOR OPENINGS.

03JUN/16 project date	WYE-003 project no.	A-4 drawing no.
KB drawn by	designed by	approved by
designe par	conc par	approuve par
ROD_KHALED project manager administrateur de projet		
DEMOLITION PLAN: UNIVERSAL_WASHROOM		
FLOOR PLAN: UNIVERSAL_WASHROOM		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
ASSOCIATION of ARCHITECTS of ONTARIO LICENCE 9720		



EXISTING MIRRORS TO BE REMOVED AND DISPOSED OF, TYPICAL

EXISTING STAINLESS STEEL BACKSPLASH TO BE REMOVED PATCH AND REPAIR ALL DAMAGE DUE TO REMOVAL

EXISTING SINKS AND VANITY TO BE REMOVED AND DISPOSED OF, TYPICAL

NOTE: PATCH AND REPAIR ALL DAMAGE TO EXISTING CONCRETE BLOCK DUE TO REMOVALS

2 PHOTOGRAPH: WOMEN'S WASHROOM 106



EXISTING PAPER TOWEL DISPENSER TO REMAIN

EXISTING PAPER TOWEL DISPENSER / WASTE RECEPTACLE TO REMAIN

3 PHOTOGRAPH: WOMEN'S WASHROOM 106



EXISTING MIRRORS TO BE REMOVED AND DISPOSED OF, TYPICAL

EXISTING STAINLESS STEEL BACKSPLASH TO BE REMOVED PATCH AND REPAIR ALL DAMAGE DUE TO REMOVAL

REMOVE AND SALVAGE EX. PAPER TOWEL DISPENSER, RE-INSTALL FOLLOWING INSTALLATION OF NEW WALL TILE

EX. PAPER TOWEL DISPENSER / WASTE RECEPTACLE TO REMAIN

EXISTING SINKS AND VANITY TO BE REMOVED AND DISPOSED OF, TYPICAL

4 PHOTOGRAPH: MEN'S WASHROOM 105

REMOVE & REPLACE EX. DRINKING FOUNTAIN, SEE MECH. DWGS

SURFACE MOUNTED BOTTLE FILLING STATION, SEE MECH DWGS

PATCH & REPAIR ALL DAMAGE TO EX. CONC.SLAB AS REQ'D DUE TO TRENCHING FOR NEW SANITARY LINE, TYPICAL

SUPPLY AND INSTALL NEW MILLWORK W/ BAR SINK, SEE MECH DWGS

ALL EX. SINKS AND VANITIES LOCATED IN MEN'S WASHROOM 105 & WOMEN'S WASHROOM 106 TO BE REMOVED AND REPLACED WITH NEW, SEE MECH. DWGS

SUPPLY AND INSTALL NEW SOAP DISPENSER MNT'D IN COUNTERTOP, TYP.

EX. STAINLESS STEEL BACKSPLASH TO BE REMOVED, PATCH AND REPAIR ALL DAMAGE DUE TO REMOVAL. PROVIDE NEW MOSAIC TILE BACKSPLASH

ALL EX. URINALS LOCATED IN MEN'S WASHROOM 105 TO BE REMOVED AND REPLACED WITH NEW, SEE MECH. DWGS

ALL EX. URINAL SCREENS LOCATED IN MEN'S WASHROOM 105 TO BE REMOVED AND REPLACED WITH NEW, SITE MEASURE

ALL EXISTING TOILETS LOCATED IN MEN'S WASHROOM 105 & WOMEN'S WASHROOM 106 TO BE REMOVED AND REPLACED WITH NEW, SEE MECH DWGS

ALL EX. TOILET PARTITIONS LOCATED IN MEN'S WASHROOM 105 & WOMEN'S WASHROOM 106 TO BE REMOVED AND REPLACED WITH NEW, SITE MEASURE

ALL EXISTING DOORS AND FRAMES LOCATED IN MEN'S WASHROOM 105 AND WOMEN'S WASHROOM 106 TO BE PAINTED

ALL WALL AND CEILING SURFACES IN MEN'S WASHROOM 105 & WOMEN'S WASHROOM 106 TO BE PAINTED. PATCH AND REPAIR ALL DAMAGE TO EXISTING GYPSUM BD CEILING PRIOR TO PAINTING

1 ENLARGED FLOOR PLAN: WASHROOMS

SCALE: 1:50

PARTITION TYPES:

P3 15.9mm GYPSUM BD, ONE SIDE, ON 92mm STEEL STUDS @ 400mm O.C.
NOTE: PROVIDE PLYWOOD BLOCKING AS REQ'D FOR INSTALLATION OF URINALS.

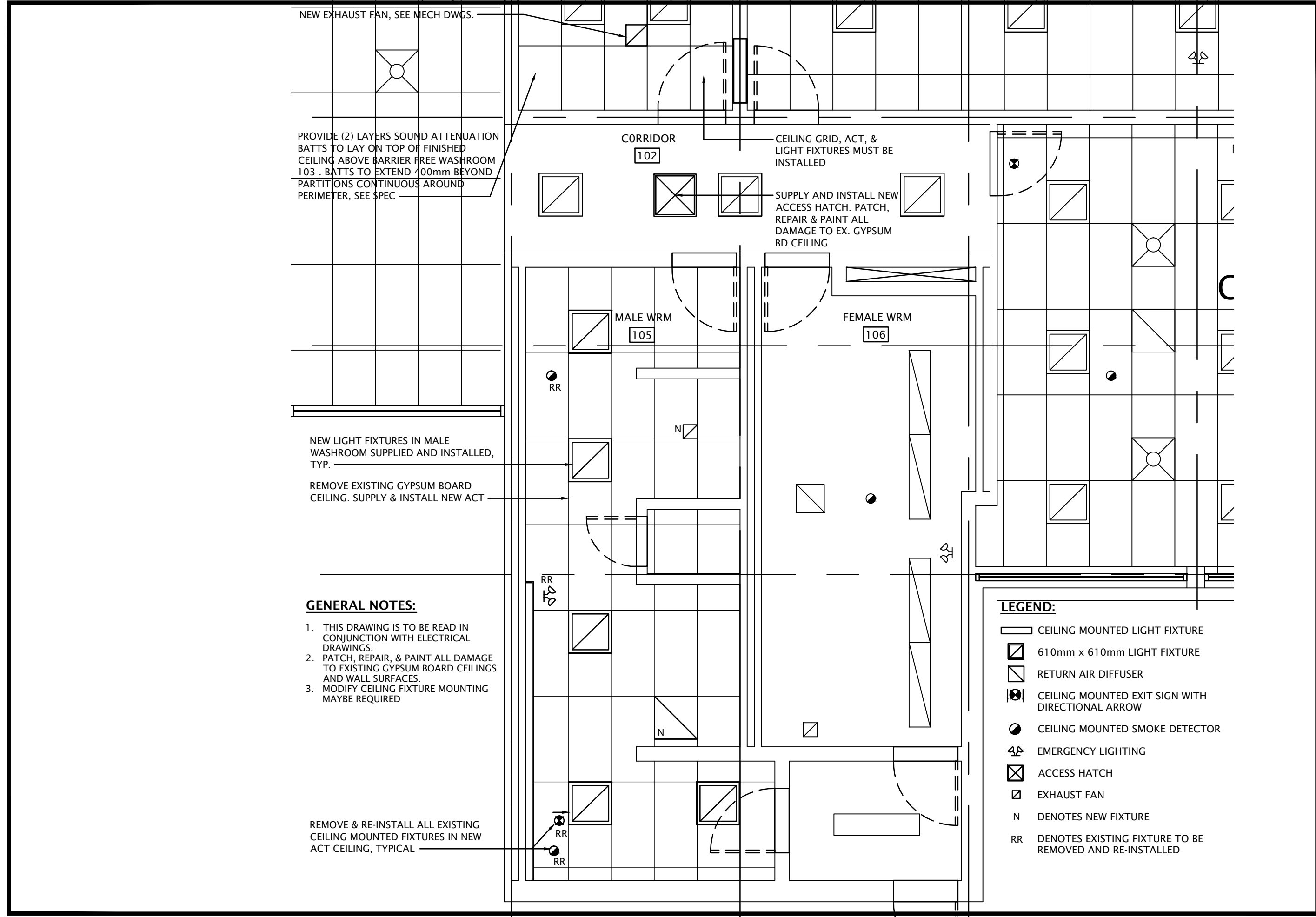
EXISTING STAINLESS STEEL BACKSPLASH TO BE REMOVED PATCH AND REPAIR ALL DAMAGE DUE TO REMOVAL, PROVIDE MOSAIC TILE BACKSPLASH

SUPPLY AND INSTALL NEW SOAP DISPENSER MNT'D IN COUNTERTOP, TYP.

GENERAL NOTES:

1. PATCH AND REPAIR ALL DAMAGE TO EXISTING WALL, CEILING, AND FLOOR SURFACES AS A RESULT OF REMOVALS, TYPICAL.
2. PATCH AND REPAIR ALL DAMAGE TO EXISTING FINISHES TO REMAIN AS A RESULT OF REMOVALS, TYPICAL.
3. SUPPLY AND INSTALL NEW PLUMBING FIXTURES, SEE MECHANICAL DWGS.
4. REMOVAL AND SALVAGE ALL TOILET PAPER DISPENSERS AND SANITARY NAPKIN DISPOSALS FOR RE-USE. RE-INSTALL SALVAGED ACCESSORIES ON NEW TOILET PARTITIONS.
5. PATCH AND REPAIR ALL DAMAGE TO EXISTING CONCRETE BLOCK WALLS DUE TO REMOVALS PRIOR TO PAINTING.
6. REMOVE AND DISPOSE OF EXISTING MIRRORS, SUPPLY AND INSTALL NEW MIRRORS.
7. REMOVE, SALVAGE, & RE-INSTALL EXISTING WASHROOM ACCESSORIES NOT IDENTIFIED FOR DISPOSAL AS REQ'D DUE TO INSTALLATION OF NEW WALL TILE.
8. EXISTING COVE TERRAZZO AND EPOXY WALL BASE TO BE REMOVED FROM MEN'S WASHROOM 105 AND WOMEN'S WASHROOM 106. CUT EXISTING FLOORING AS REQ'D FOR REMOVAL. INFILL WITH FLOOR LEVELING COMPOUND PRIOR TO INSTALLATION OF NEW SHEET FLOORING WITH COVE BASE.

03JUN/16 project date	WYE-003 project no.	A-5 dessine no.
KB drawn by	designed by	approved by
ROD_KHALED project manager tender soumission		
ENLARGED FLOOR PLAN: WASHROOMS & PHOTOGRAPHS		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
ASSOCIATION of ARCHITECTS AKKO CHAMRIE LICENCE 3703		



NEW EXHAUST FAN, SEE MECH DWGS.

PROVIDE (2) LAYERS SOUND ATTENUATION
BATTS TO LAY ON TOP OF FINISHED
CEILING ABOVE BARRIER FREE WASHROOM
103 . BATTS TO EXTEND 400mm BEYOND
PARTITIONS CONTINUOUS AROUND
PERIMETER, SEE SPEC

NEW LIGHT FIXTURES IN MALE
WASHROOM SUPPLIED AND INSTALLED,
TYP.

REMOVE EXISTING GYPSUM BOARD
CEILING. SUPPLY & INSTALL NEW ACT

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN
CONJUNCTION WITH ELECTRICAL
DRAWINGS.
2. PATCH, REPAIR, & PAINT ALL DAMAGE
TO EXISTING GYPSUM BOARD CEILINGS
AND WALL SURFACES.
3. MODIFY CEILING FIXTURE MOUNTING
MAYBE REQUIRED

REMOVE & RE-INSTALL ALL EXISTING
CEILING MOUNTED FIXTURES IN NEW
ACT CEILING, TYPICAL

CORRIDOR
102

CEILING GRID, ACT, &
LIGHT FIXTURES MUST BE
INSTALLED

SUPPLY AND INSTALL NEW
ACCESS HATCH. PATCH,
REPAIR & PAINT ALL
DAMAGE TO EX. GYPSUM
BD CEILING

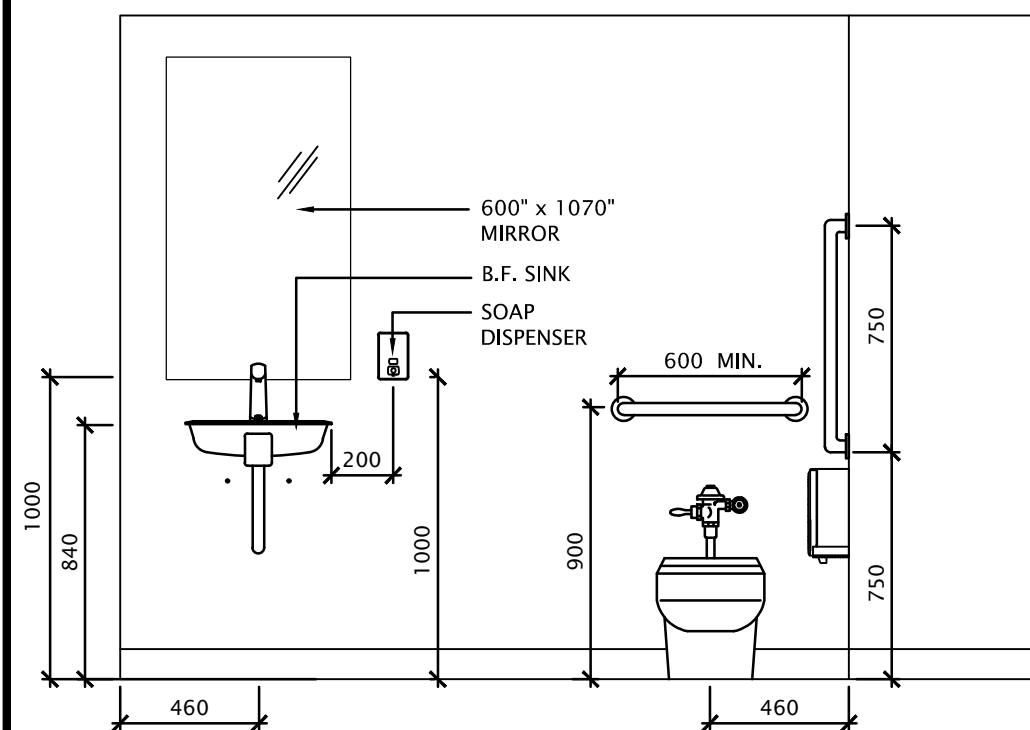
MALE WRM
105

FEMALE WRM
106

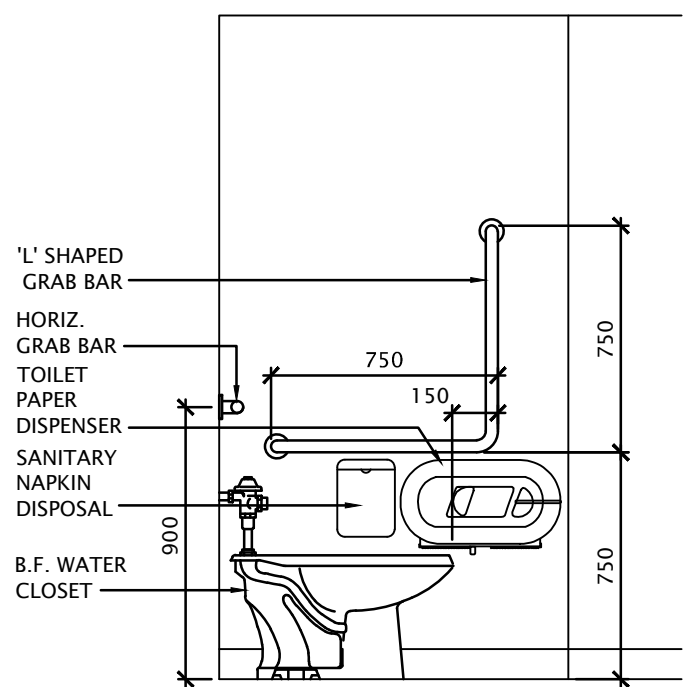
LEGEND:

- CEILING MOUNTED LIGHT FIXTURE
- 610mm x 610mm LIGHT FIXTURE
- RETURN AIR DIFFUSER
- CEILING MOUNTED EXIT SIGN WITH
DIRECTIONAL ARROW
- CEILING MOUNTED SMOKE DETECTOR
- EMERGENCY LIGHTING
- ACCESS HATCH
- EXHAUST FAN
- N DENOTES NEW FIXTURE
- RR DENOTES EXISTING FIXTURE TO BE
REMOVED AND RE-INSTALLED

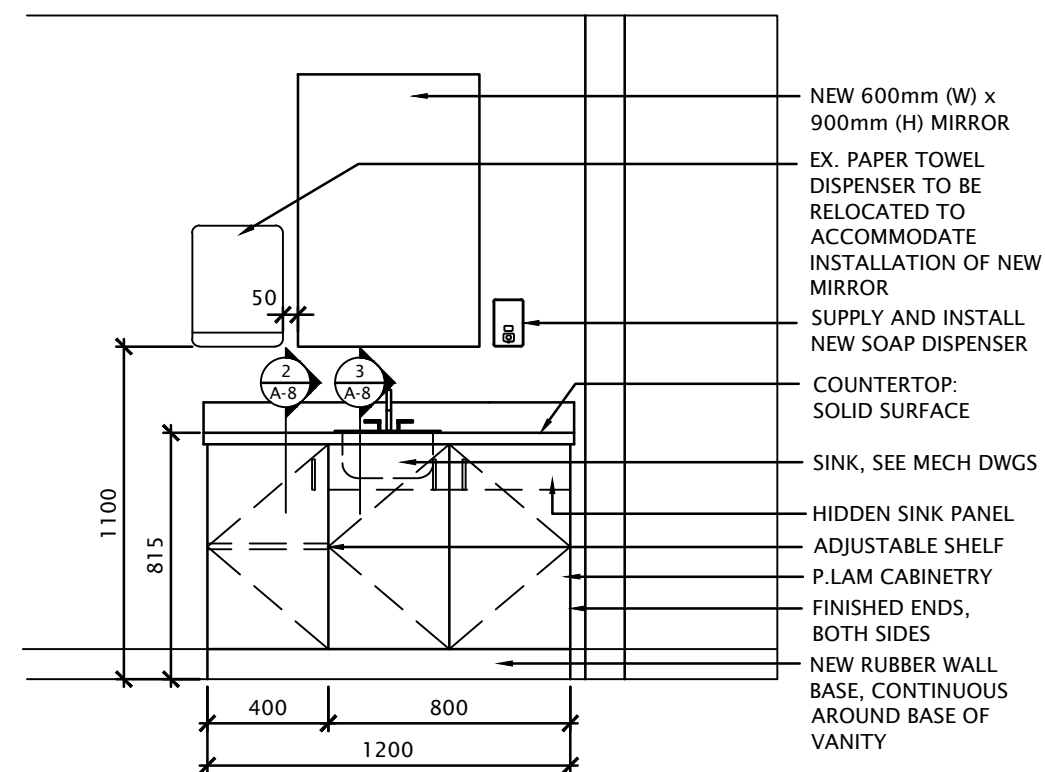
03JUN/16 project date date du projet	WYE-003 project no. no. du projet	A-6 drawing no. dessine no.
KB drawn by dessiné par	designed by conçu par	approved by approuvé par
ROD_KHALED project manager administrateur de projet		
REFLECTED_CEILING_PLAN: WASHROOMS		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
seal sceau		



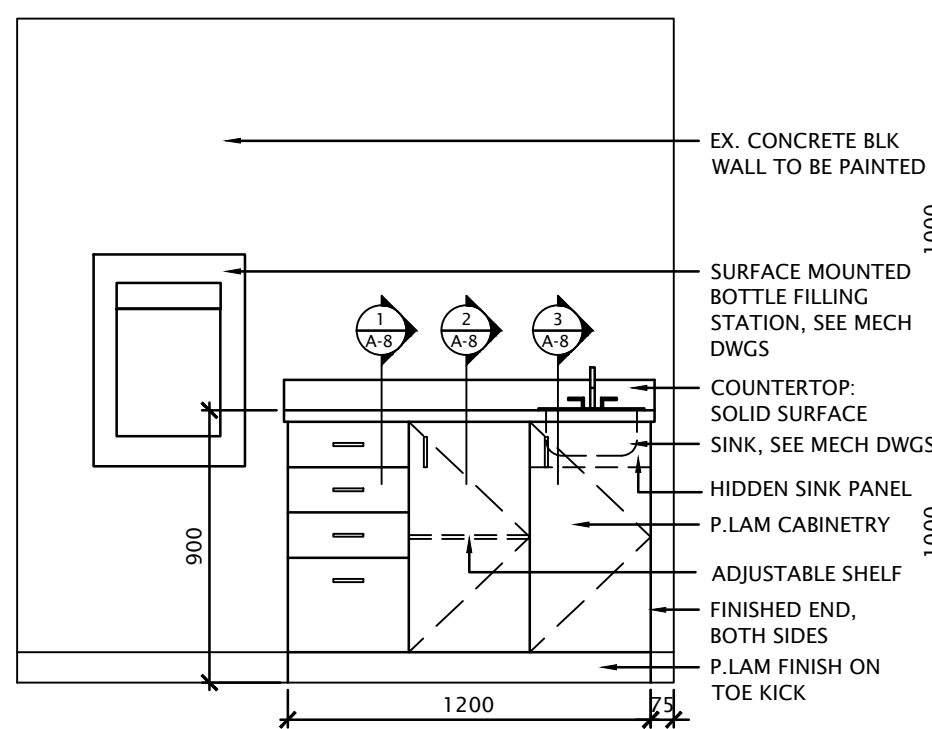
1 NORTH ELEVATION: B.F WRM 103
A-7 SCALE: 1:25



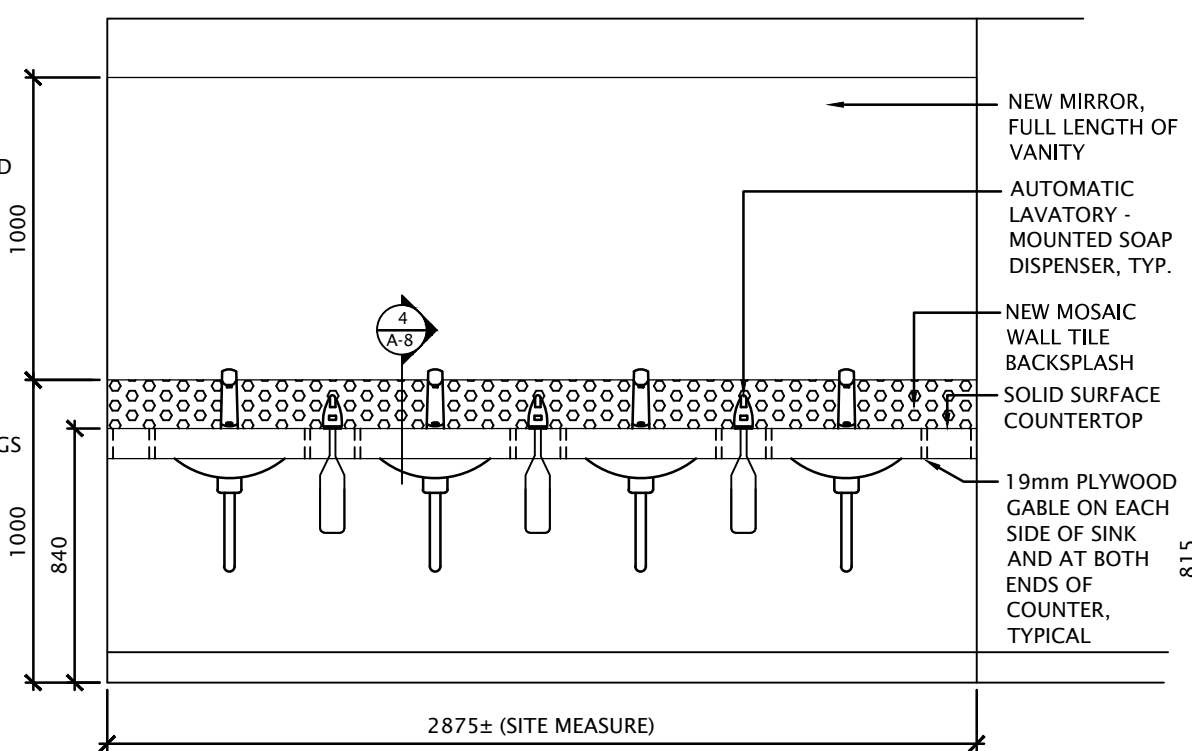
2 EAST ELEVATION: B.F WRM 103
A-7 SCALE: 1:25



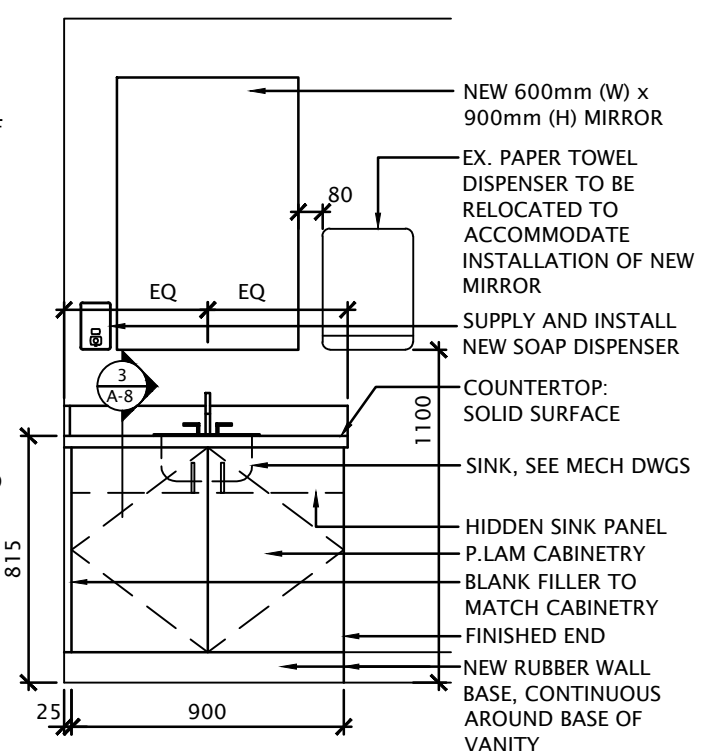
3 NORTH ELEVATION: WASHROOM M01
A-7 SCALE: 1:25



4 SOUTH ELEVATION: LOBBY 100
A-7 SCALE: 1:25

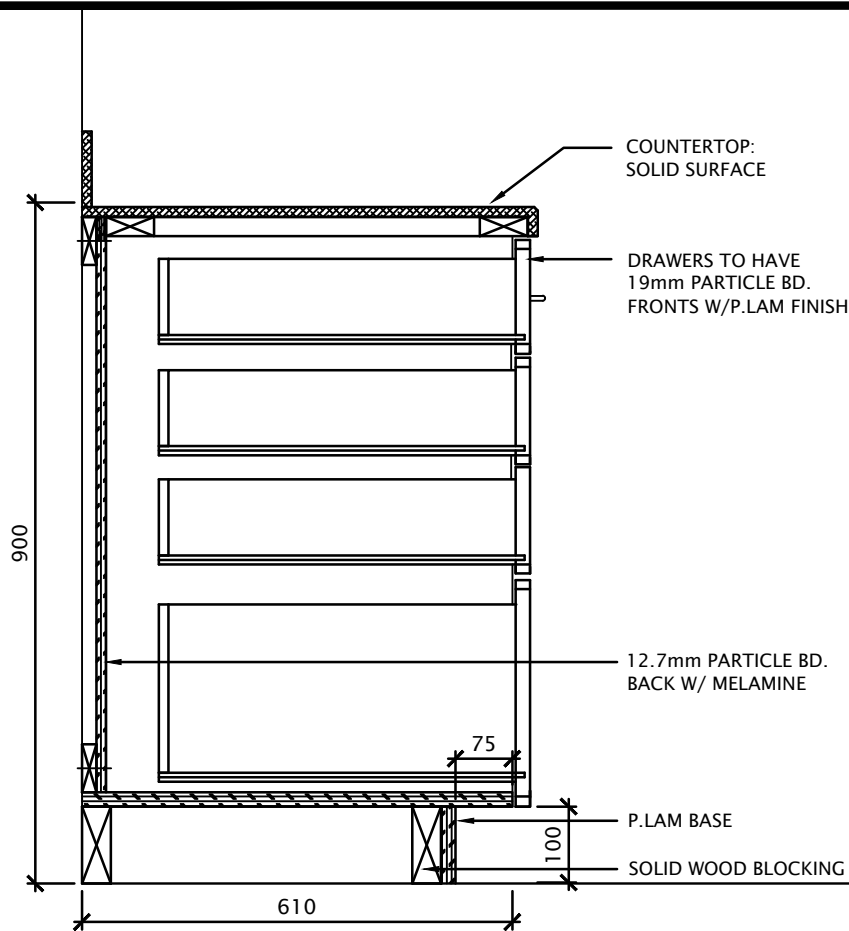


5 SOUTH ELEVATION: WOMEN'S WASHROOM 106
A-7 SCALE: 1:25

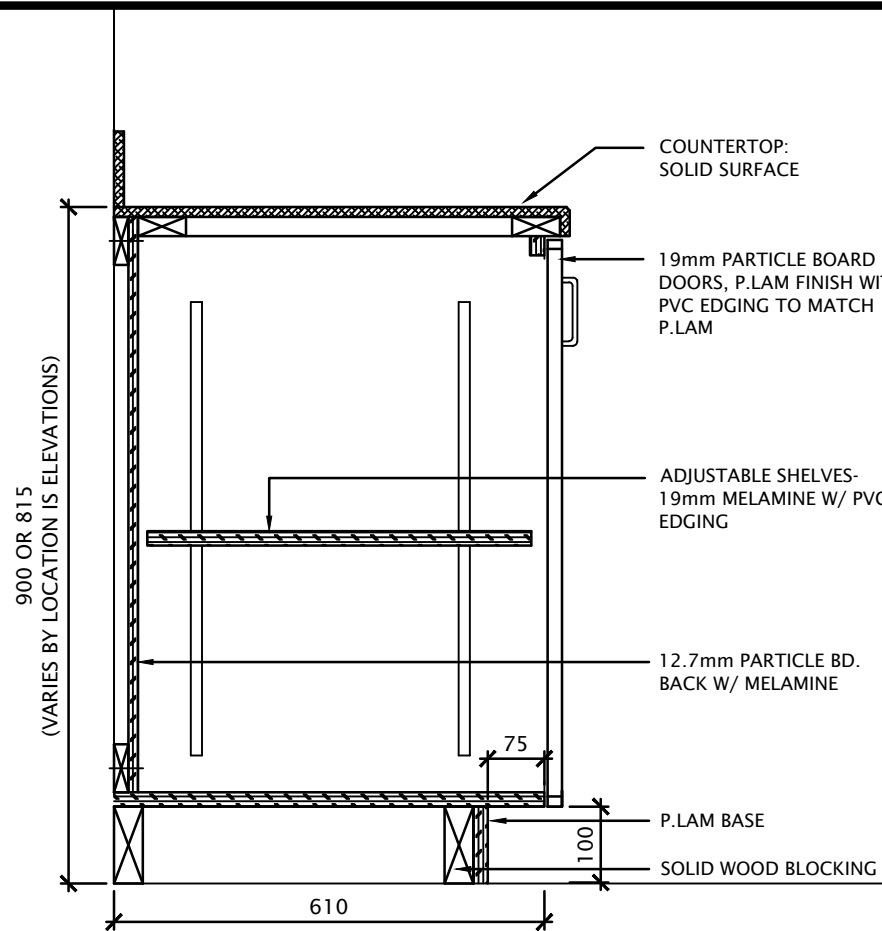


6 SOUTH ELEVATION: WRM B03
A-7 SCALE: 1:25

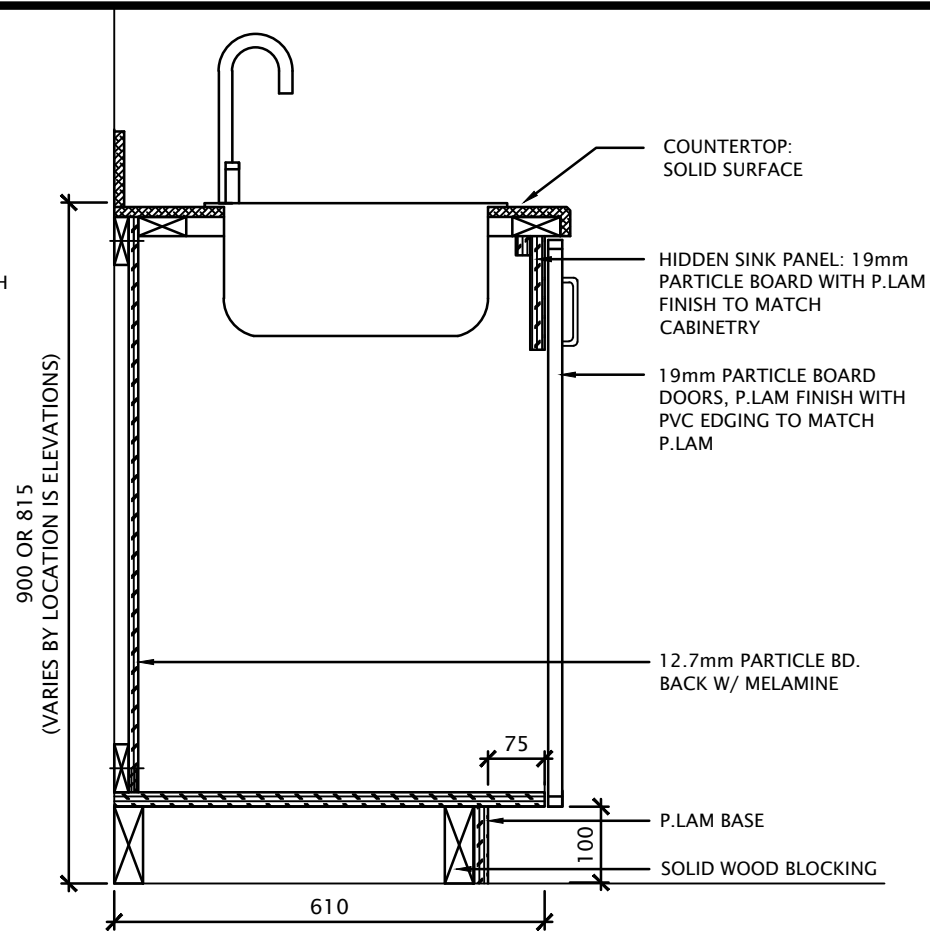
03JUN/16 project date		WYE-003 project no.		A-7 drawing no.	
KB drawn by		conce par		approved par	
drawing title INTERIOR_ELEVATIONS		project manager ROD_KHALED tender administrateur de projet			
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION					
<div> <div> <div>Environment and Climate Change Canada</div> <div>Real Property Management Division Technical Services</div> </div> <div> <div>Environnement et Changement Climatique Canada</div> <div>Division Gestion des Biens Immobilier Services Techniques</div> </div> </div>					
<div> <div> <div>ASSOCIATION of ARCHITECTS</div> <div>AKKO QUAHIE LICENCE 8723</div> </div> </div>					



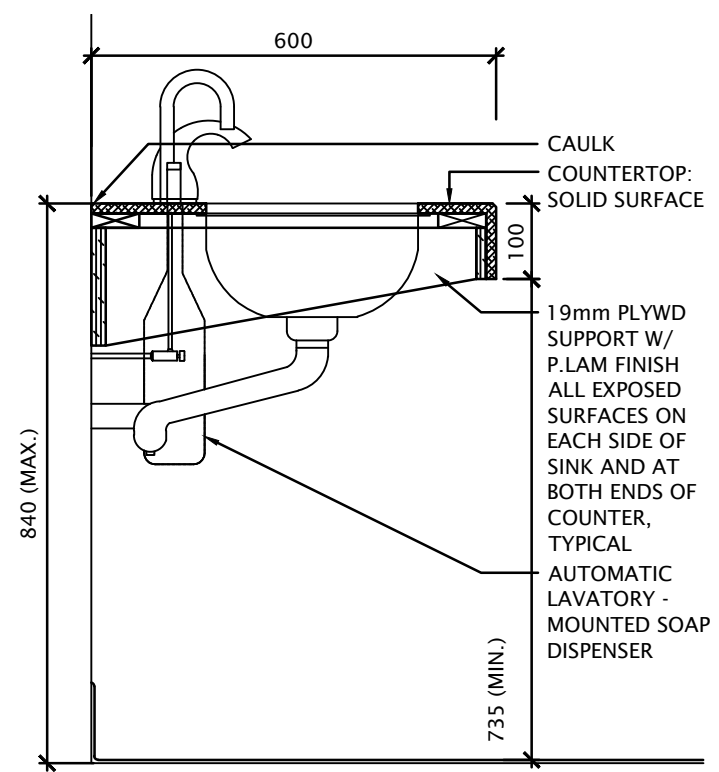
1 MILLWORK SECTION: LOBBY 100
A-8 SCALE: 1:10



2 MILLWORK SECTION: LOBBY 100
A-8 SCALE: 1:10



3 MILLWORK SECTION: LOBBY 100
A-8 SCALE: 1:10



4 SECTION: WASHROOM VANITY
A-8 SCALE: 1:10

03JUN/16 project date		WYE-003 project no.		A-8 drawing no.	
KB drawn by		designed by		approved by	
designe par		conc par		approuve par	
drawing title titre du dessin		project manager administrateur de projet			
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		ROD_KHALED tender soumission			
<div> <div> <div>Environment and Climate Change Canada</div> <div>Real Property Management Division Technical Services</div> </div> <div> <div>Environnement et Changement Climatique Canada</div> <div>Division Gestion des Biens Immobilier Services Techniques</div> </div> </div>					
<div> <div> <div>ASSOCIATION of ARCHITECTS</div> <div>AKKO QUAIRIE LICENCE 3703</div> </div> </div>					


ROOM SCHEDULE															
NO.	NAME	FLOOR	BASE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			REMARKS
				MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	HT.	
100	LOBBY	EX TERR	POR EX TERR	—	—	—	—	GB	PT	—	—	EX ACT	—	—	PROVIDE NEW PORCELAIN TILE WALL BASE ON ALL NEW PARTITION, ENTIRE SURFACE OF SOUTH WALL TO BE PAINTED, MATCH EX.
101	ADMIN.	EX TERR	POR EX TERR	—	—	—	—	—	—	GB	PT	EX ACT	—	—	PROVIDE NEW PORCELAIN TILE WALL BASE ON ALL NEW PARTITION, ENTIRE SURFACE OF WEST WALL TO BE PAINTED, MATCH EX.
101A	STORAGE	EX TERR	POR EX TERR	GB	PT	EX GB	PT	GB	PT	GB	PT	EX ACT	—	—	ALL EXISTING AND NEW WALL SURFACES TO BE PAINTED
103	BF WASHROOM	EX/NW TERR	EX/NW TERR	GB	PT	GB	PT	GB	PT	GB	PT	EX ACT	—	—	ALL EXISTING AND NEW WALL SURFACES TO BE PAINTED
104	CLASSROOM	EX VCT	EX/NW RB	GB	PT	—	—	—	—	EX GB	PT	EX ACT	—	—	NORTH & WEST WALL SURFACES TO BE PT'D, MATCH EX. PROVIDE NEW RB WALL BASE TO MATCH EX. ON NORTH & WEST PARTITIONS
105	MALE WASHROOM	SHEET	COVE	EX CONC	PT/TILE	EX CONC	PT	EX CONC	PT	EX CONC	PT	EX GB	PT	—	ALL EXISTING WALL SURFACES TO BE PAINTED. EXISTING TERR & EPOXY COVE WALL BASE TO BE REMOVED.
106	FEMALE WASHROOM	SHEET	COVE	EX CONC	PT/TILE	EX CONC	PT	EX CONC	PT	EX CONC	PT	EX GB	PT	—	ALL EXISTING WALL SURFACES TO BE PAINTED. EXISTING TERR & EPOXY COVE WALL BASE TO BE REMOVED.
C1	CORRIDOR	EX/NW TERR	EX TERR	—	—	EX GB	PT	—	—	—	—	EX GB	PT		ENTIRE SURFACE OF EAST WALL TO BE PAINTED, MATCH EX.
B03	WASHROOM	SHEET	COVE	EX GB	PT	EX GB	PT	EX GB	PT	EX GB	PT	EX ACT	—	—	ALL WALL SURFACES TO BE PAINTED
MO1	WASHROOM	SHEET	COVE	EX GB	PT	EX GB	PT	EX GB	PT	EX GB	PT	EX ACT	—	—	ALL WALL SURFACES TO BE PAINTED

NOTE: ALL FINISHES ARE NEW UNLESS OTHERWISE NOTED

DOOR SCHEDULE									
DOOR					FRAME			F.R.R.	REMARKS
NO.	NOMINAL SIZE	TYPE	MAT.	FIN.	TYPE	MAT.	FIN.		
103	965 X 2134	A	HM	PT	A	HM	PT	—	PROVIDE KICK PLATE ON CORRIDOR SIDE
104	965 X 2134	A	HM	PT	A	HM	PT	—	PROVIDE KICK PLATE ON CORRIDOR SIDE

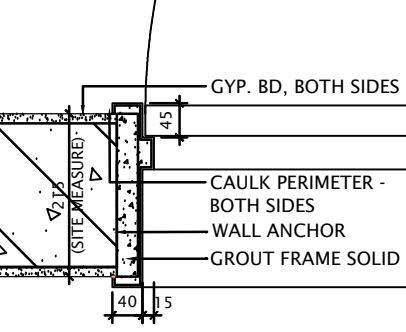
ABBREVIATIONS	
BLK	CONCRETE BLOCK
CONC	CONCRETE
EX	EXISTING
GB	GYPSUM BOARD
HM	HOLLOW METAL
PT	PAINT
POR	PORCELAIN TILE
TERR	TERRAZZO
VCT	VINYL TILE

DOOR TYPES



TYPE 'A'
HOLLOW METAL,
PAINTED

FRAME TYPES



TYPE 'A'
HOLLOW METAL FRAME AT EXISTING
CONCRETE BLOCK WALL

03JUN/16
project date
date du projet

WYE-003
project no.
no. du projet

A-9
drawing no.
dessine no.

KB
drawn by
dessiné par

designed by
conçu par


approved by
approuvé par

ROD_KHALED
project manager
tender submission
administrateur de projet

SCHEDULES

project title
titre du projet


MIDLAND
ONTARIO
16160_HIGHWAY_12_EAST
WYE_MARSH_WILDLIFE_CENTRE
LIGHTING_RETROFIT_AND
WASHROOM_RENOVATION



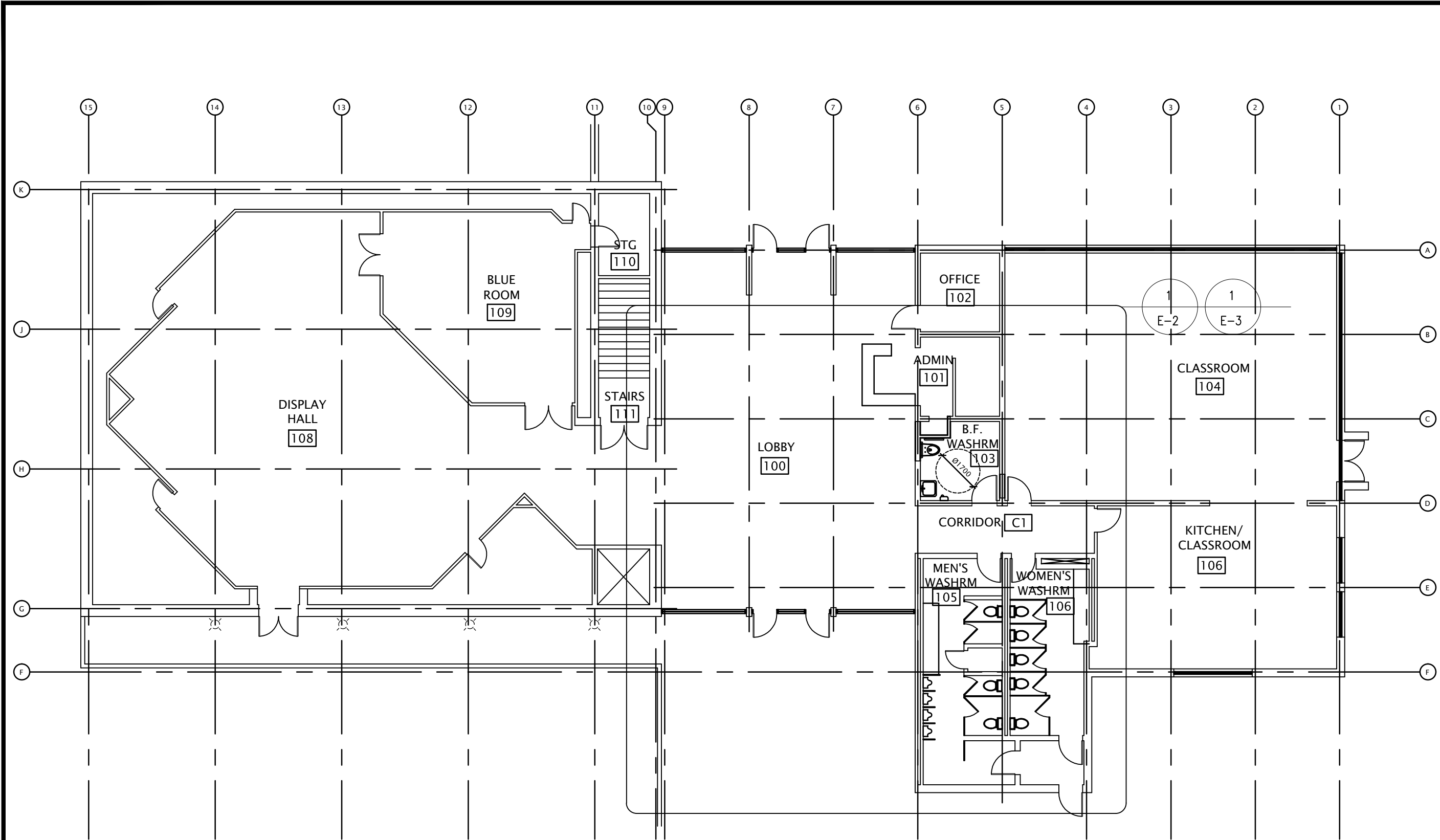
Environment and Climate
Change Canada
Real Property Management Division
Technical Services

Environnement et Changement
Climatique Canada


Division Gestion des Biens Immobilier
Services Techniques

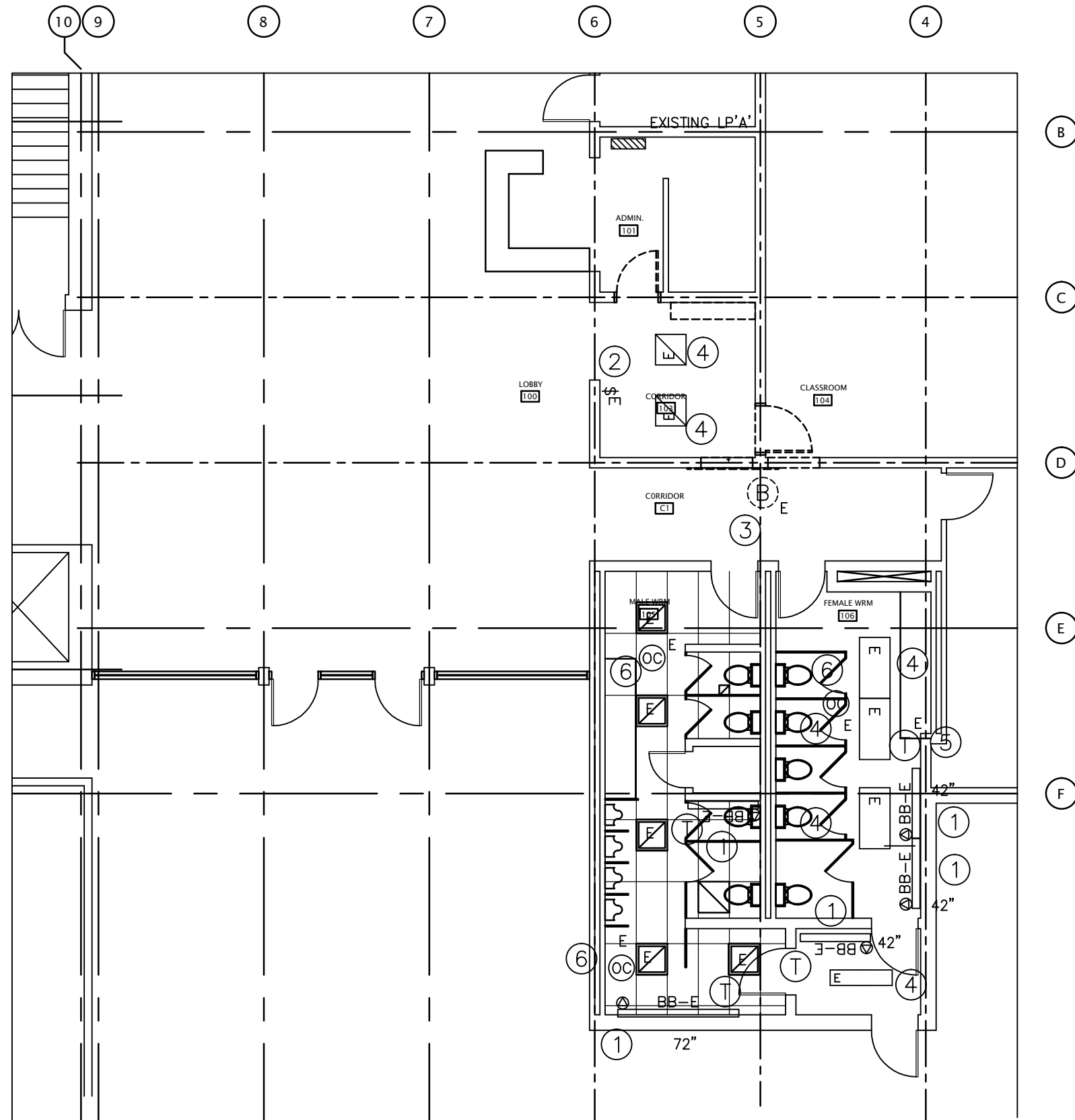


seal
sceau



1 ELECTRICAL KEYPLAN
E-1 NTS

 Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques	drawing title titre du dessin ELECTRICAL KEYPLAN		21MAR/16 project date date du projet
	project title titre du projet MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		designed by conce par WYE-003 project no. no. du projet
	drawn by dessiné par MJD		approved by approuvé par ROD_KHALED project manager administrateur de projet
	drawing no. dessiné no. E-1		



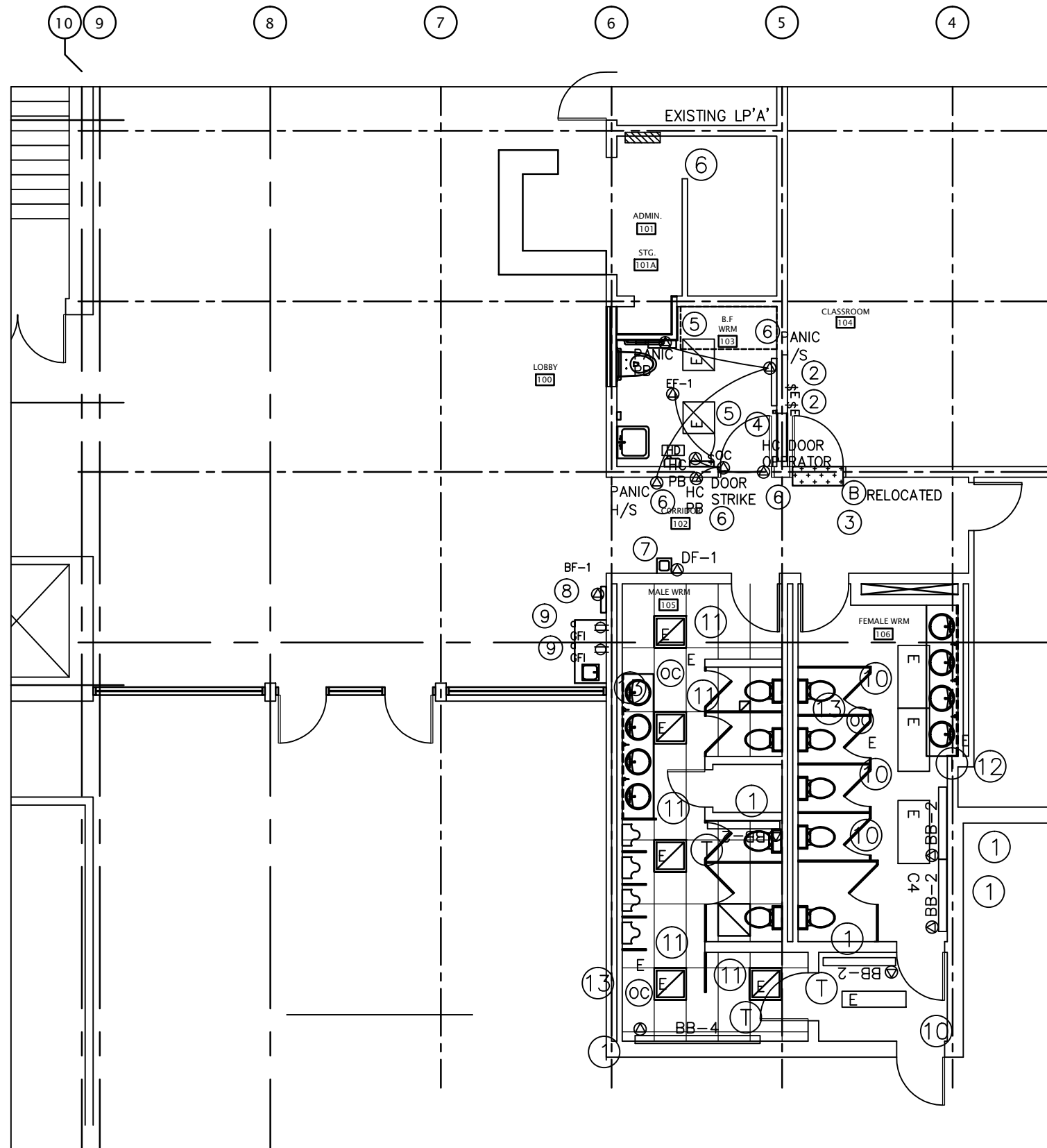
1 ELECTRICAL UPPER FLOOR DEMOLITION PLAN
E-2 1:100

- NOTES:
- EXISTING BASEBOARD HEATER TO BE REPLACED WITH NEW OF THE SAME CAPACITY. CONFIRM EXISTING SIZE ON SITE PRIOR TO ORDERING. SIZING SHOWN IS FOR ESTIMATING PURPOSES ONLY.
 - REMOVE EXISTING WALL MOUNTED LIGHT SWITCH, AND ALL ASSOCIATED CONDUIT AND WIRE TO EXISTING PANEL. SEE 1/E-3 FOR NEW SWITCH LOCATION.
 - REMOVE EXISTING WALL MOUNTED FIRE ALARM BELL TO ACCOMMODATE NEW DOOR OPENINGS. SEE DRAWING 1/E-3 FOR NEW LOCATION.
 - REMOVE EXISTING LIGHT FIXTURE FOR THE DURATION OF CONSTRUCTION. RE-INSTALL IN NEW LOCATION AS PER DRAWING 1/E-3. PROVIDE TEMPORARY LIGHTING IN ROOM FOR THE DURATION OF CONSTRUCTION.
 - EXISTING BASEBOARD HEATER REMOTE THERMOSTAT TO REMAIN.
 - REMOVE EXISTING OCCUPANCY SENSOR FOR THE DURATION OF CONSTRUCTION. RE-INSTALL IN NEW LOCATION AS PER DRAWING 1/E-3.

ELECTRICAL LEGEND

- E EXISTING
\$ SWITCH
\$# 3 WAY SWITCH
OC- OCCUPANCY SENSOR
⊕ DIRECT CONNECTION
⊙ SMOKE DETECTOR
⊘ HEAT DETECTOR
⊗ EXIT SIGN
- EM1 EMERGENCY LIGHT TYPE EM1.
ER2(1) REMOTE EMERGENCY LIGHT TYPE ER2. CONNECT TO EM1.
- RECESSED FLUORESCENT FIXTURE
LETTER REFERS TO LIGHT FIXTURE SCHEDULE
- SURFACE FLUORESCENT FIXTURE
- INCANDESCENT FIXTURE
- LIGHTING CONTROL BOX
- REMOTE LIGHTING CONTROL
- HAND DRYER
- TIME SWITCH
- BF-1 BOTTLE FILLING STATION
DF-1 DRINKING FOUNTAIN
- OCCUPANCY SENSOR

21MAR/16 project date	WYE-003 project no.	E-2 drawing no.
MJD drawn by	designed by	approved by
ROD_KHALED project manager tender administrateur de projet		
ELECTRICAL_UPPER FLOOR_DEMOLITION PLAN		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
PROFESSIONAL ENGINEER M. J. DWYER 16/03/21 PROVINCE OF ONTARIO		

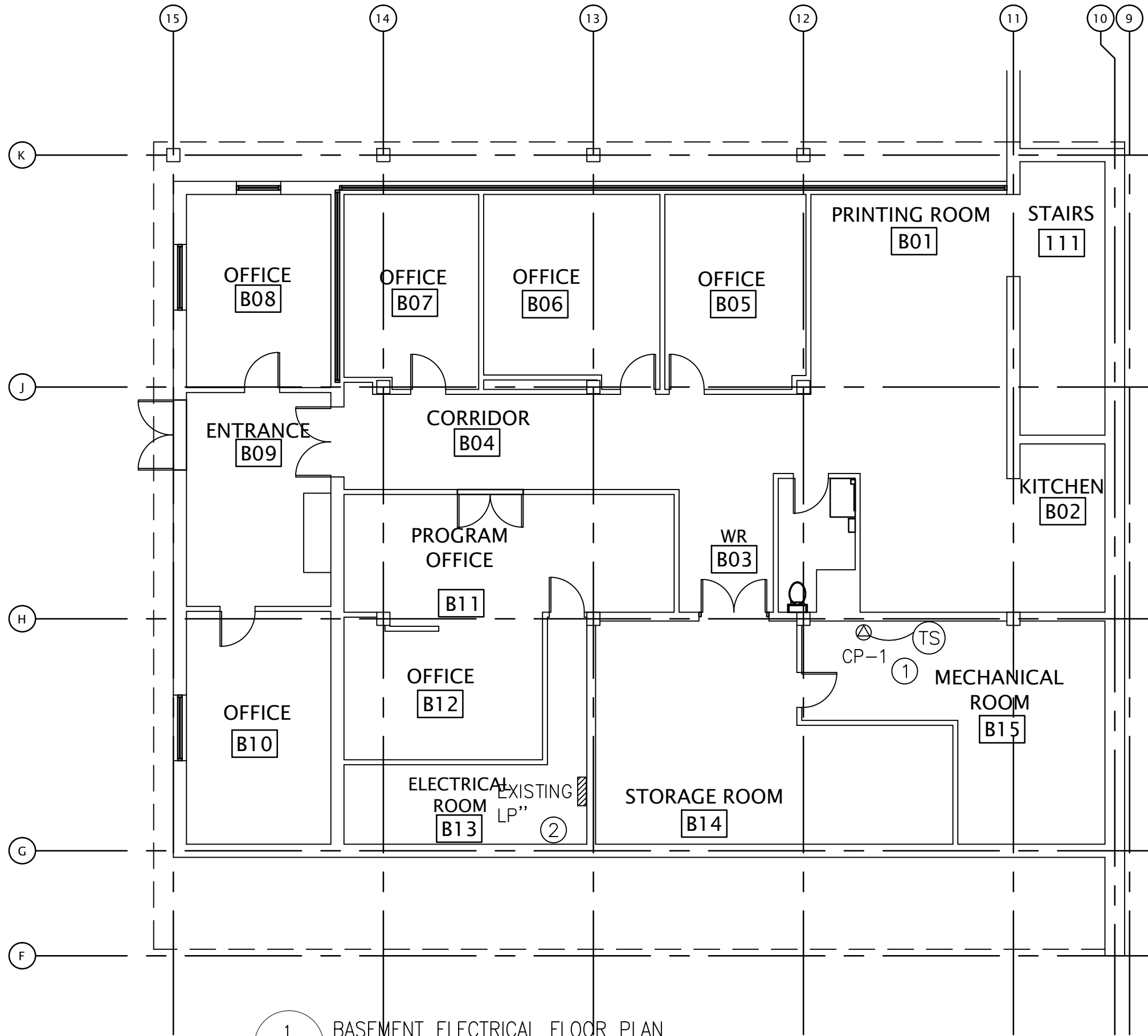


NOTES:

- EXISTING BASEBOARD HEATER TO BE REPLACED WITH NEW OF THE SAME CAPACITY. CONFIRM EXISTING SIZE ON SITE PRIOR TO ORDERING. SIZING SHOWN IS FOR ESTIMATING PURPOSES ONLY.
- EXISTING LIGHT SWITCH LOCATIONS TO REMAIN.
- NEW LOCATION OF EXISTING FIRE ALARM BELL CLEAR OF NEW OPENING IN EXISTING WALL. EXTEND EXISTING CONDUIT AND WIRE TO NEW LOCATION, REMOVE ALL CONDUIT AND WIRE NOT BEING RE-USED. VERIFY EXISTING ZONE.
- EXTEND EXISTING CONDUIT AND WIRE FROM EXISTING UNSWITCHED CIRCUIT SERVING THE EXISTING ROOM, AND CONNECT.
- EXISTING LIGHT FIXTURE REMOVED FOR THE DURATION OF CONSTRUCTION, TO BE RE-INSTALLED. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED, AND RECONNECT TO EXISTING SWITCHED CIRCUIT.
- EXISTING LP'A' TO REMAIN. EXISTING PANEL SQ D QO. REMOVE 10 SINGLE POLE BREAKERS, AND REPLACE WITH 10 HALF SIZE BREAKERS (DUAL 15A FOR 20 BREAKERS TOTAL). RECONNECT THE 10 ORIGINAL CIRCUITS. CONNECT NEW AS FOLLOWS:
 - 120 VOLT 15A 1 POLE 2C#12 RW90 Cu. IN 12mm CONDUIT, TO DF-1 IN HALLWAY SEE ALSO NOTE 7
 - 120 VOLT 15A 1 POLE 2C#12 RW90 Cu. IN 12mm CONDUIT TO BF-1 IN LOBBY. SEE ALSO NOTE 8.
 - 120 VOLT 15A 1 POLE 2C#12 RW90 Cu. IN 12mm CONDUIT TO HAND DRYER IN HC WASHROOM
 - 120 VOLT 15A 1 POLE 2C#12 RW90 Cu. IN 12mm CONDUIT TO HC WASROOM DOOR OPERATOR AND PANIC ALARM
 - 120 VOLT 15A 1 POLE 6 SPARES
- CONNECT NEW DF-1 TO EXISTING LP'A', SEE ALSO NOTE 6
- CONNECT NEW BF-1 TO EXISTING LP'A', SEE ALSO NOTE 6
- CONNECT NEW ABOVE COUNTER RECEPTACLE TO EXISTING LP'A', SEE ALSO NOTE 6
- REMOVE FIXTURE, AND PROVIDE TEMPORARY LIGHTING FOR THE DURATION OF CONSTRUCTION. SUPPLY AND INSTALL NEW FIXTURE, AND RECONNECT TO EXISTING SWITCHED CIRCUIT.
- REMOVE EXISTING FIXTURE, AND PROVIDE TEMPORARY LIGHTING FOR THE DURATION OF CONSTRUCTION. SUPPLY AND INSTALL NEW FIXTURE, AND RECONNECT TO EXISTING SWITCHED CIRCUIT.
- RECONNECT EXISTING REMOTE THERMOSTAT TO NEW BASEBOARD HEATERS.
- RE INSTALL EXISTING OCCUPANCY SENSOR IN NEW TBAR CEILING, OR EXISTING DRYWALL. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. SUPPORT OCCUPANCY SENSOR INDEPENDENTLY FROM DROPPED CEILING SYSTEMS.

1 ELECTRICAL UPPER FLOOR PLAN
E-3 1:100

21MAR/16 project date	WYE-003 project no.	E-3 drawing no.
MJD drawn by	ROD_KHALED project manager	
ELECTRICAL_UPPER FLOOR_PLAN		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
PROFESSIONAL ENGINEER M. J. DWYER 16/03/21 PROVINCE OF ONTARIO		



1
E-4

BASEMENT ELECTRICAL FLOOR PLAN

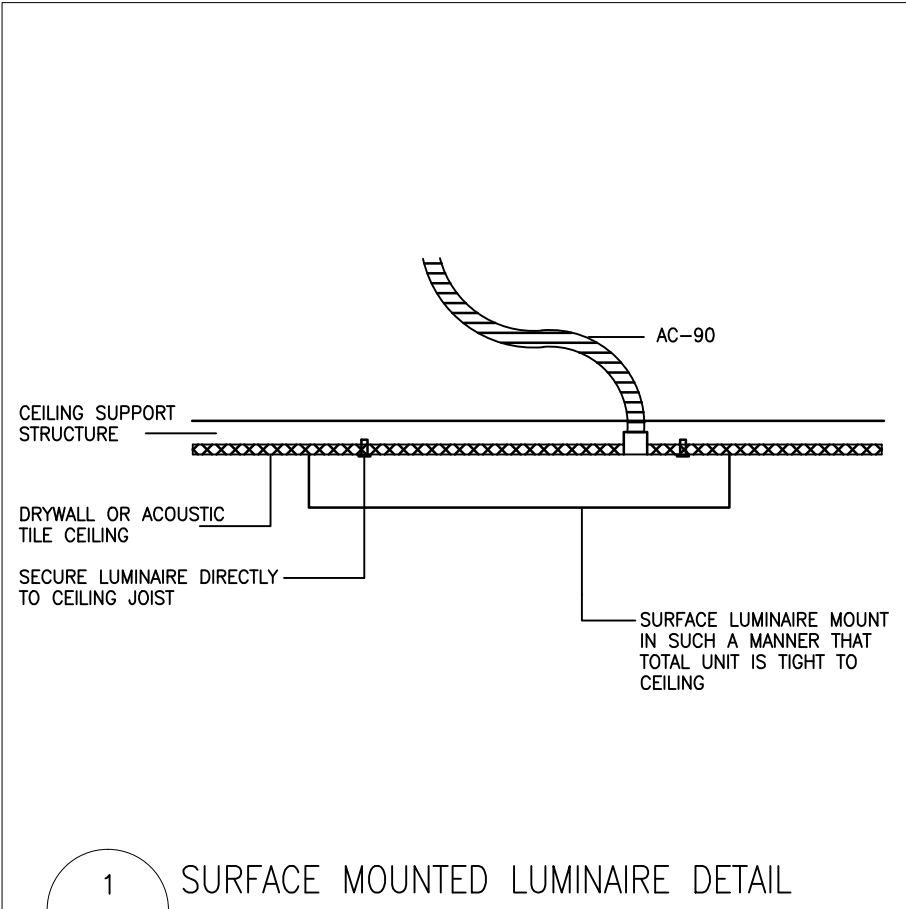
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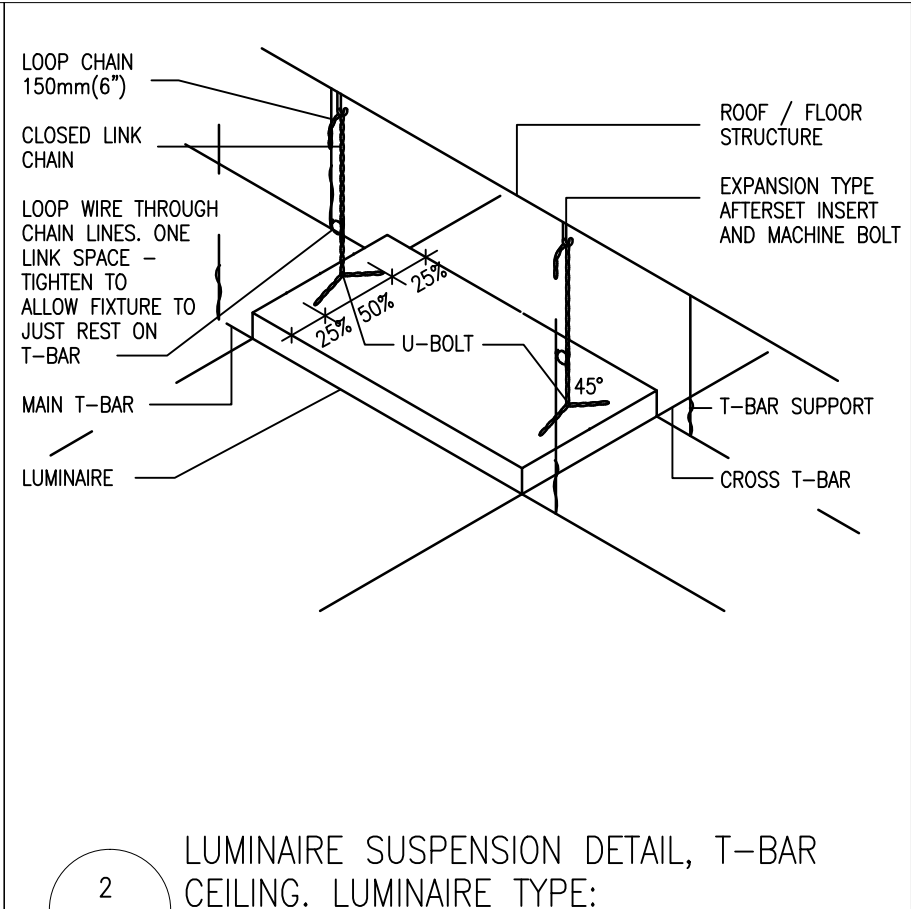
- 1 CONNECT NEW CP-1 AND TIMESWITCH TO EXISTING 120 VOLT ELECTRICAL PANEL LP IN ADJACENT ELECTRICAL ROOM.
- 2 EXISTING LIGHTING PANEL TO REMAIN.

drawing title titre du dessin	project date date du projet		project no. no. du projet		drawing no. dessine no.		
	21MAR/16		WYE-003		E-4		
	drawn by dessiné par		designed by conçu par		approved by approuvé par		
MJD				ROD_KHALED		project manager administrateur de projet	
BASEMENT ELECTRICAL FLOOR PLAN							
project title titre du projet							
MIDLAND ONTARIO 16160 HIGHWAY 12 EAST WYE MARSH WILDLIFE CENTRE LIGHTING RETROFIT AND WASHROOM RENOVATION							
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques							
PROFESSIONAL ENGINEER M. J. DWYER 16/03/21 PROVINCE OF ONTARIO							

ELECTRIC HEATER SCHEDULE							
REF	TYPE	LENGTH	HEIGHT	DEPTH	POWER V-PH-HZ	WATTS	REMARKS
BB- 2	BASEBOARD	42"	7"	3"	208-1-60	1000	WITH BUILT-IN OR REMOTE THERMOSTAT
BB- 4	"	72"	"	"	"	1500	WITH BUILT-IN THERMOSTAT



1 SURFACE MOUNTED LUMINAIRE DETAIL
E-3 SCALE N.T.S.



2 LUMINAIRE SUSPENSION DETAIL, T-BAR
CEILING. LUMINAIRE TYPE:
E-3 SCALE N.T.S.

21MAR/16
project date
date du projet

WYE-003
project no.
no. du projet

E-5
drawing no.
dessine no.

MJD
drawn by
dessiné par

designed by
conçu par

approved by
approuvé par


ROD_KHALED
tender submission
project manager
administrateur de projet

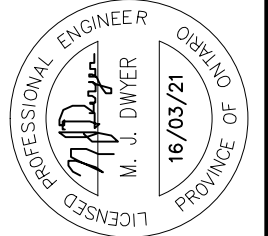
drawing title
titre du dessin

SCHEDULE_&_LUMINAIRE
DETAILS

project title
titre du projet

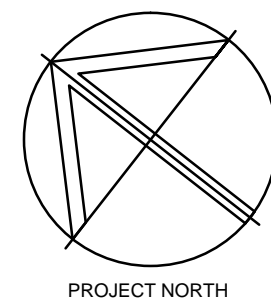
MIDLAND
ONTARIO
16160_HIGHWAY_12_EAST
WYE_MARSH_WILDLIFE_CENTRE
LIGHTING_RETROFIT_AND
WASHROOM_RENOVATION

Environment and Climate
Change Canada
Real Property Management Division
Technical Services
Environnement et Changement
Climatique Canada
Division Gestion des Biens Immobilier
Services Techniques

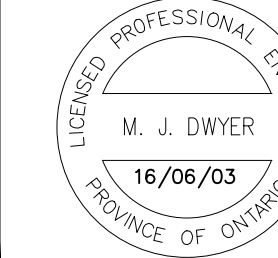


M. DWYER ENGINEERING

(div of 694802 Ontario Inc.)
375 BREWERY LANE ORILLIA ONTARIO L3V 7H8
PHONE (705) 327-0294 FAX 325-7940



SEAL



04	ISSUED_FOR_TENDER	16/06/03
03	ISSUED_FOR_COMMENT_98%	16/04/29
02	ISSUED_FOR_COMMENT_95%	16/03/07
01	ISSUED_FOR_COMMENT	16/02/08
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and
immediately notify the engineer of all discrepancies.

A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO
LIGHTING_RETROFIT_&
WASHROOM_RENOVATION

drawing title
titre du dessin
SITE_LIGHTING_PLAN

drawn by
dessiné par

MJD

designed by
conç par

MJD

approved by
approuvé par

MJD

tender
soumission

project manager
administrateur
de projets

ROD_KHALED

project date
date du projet

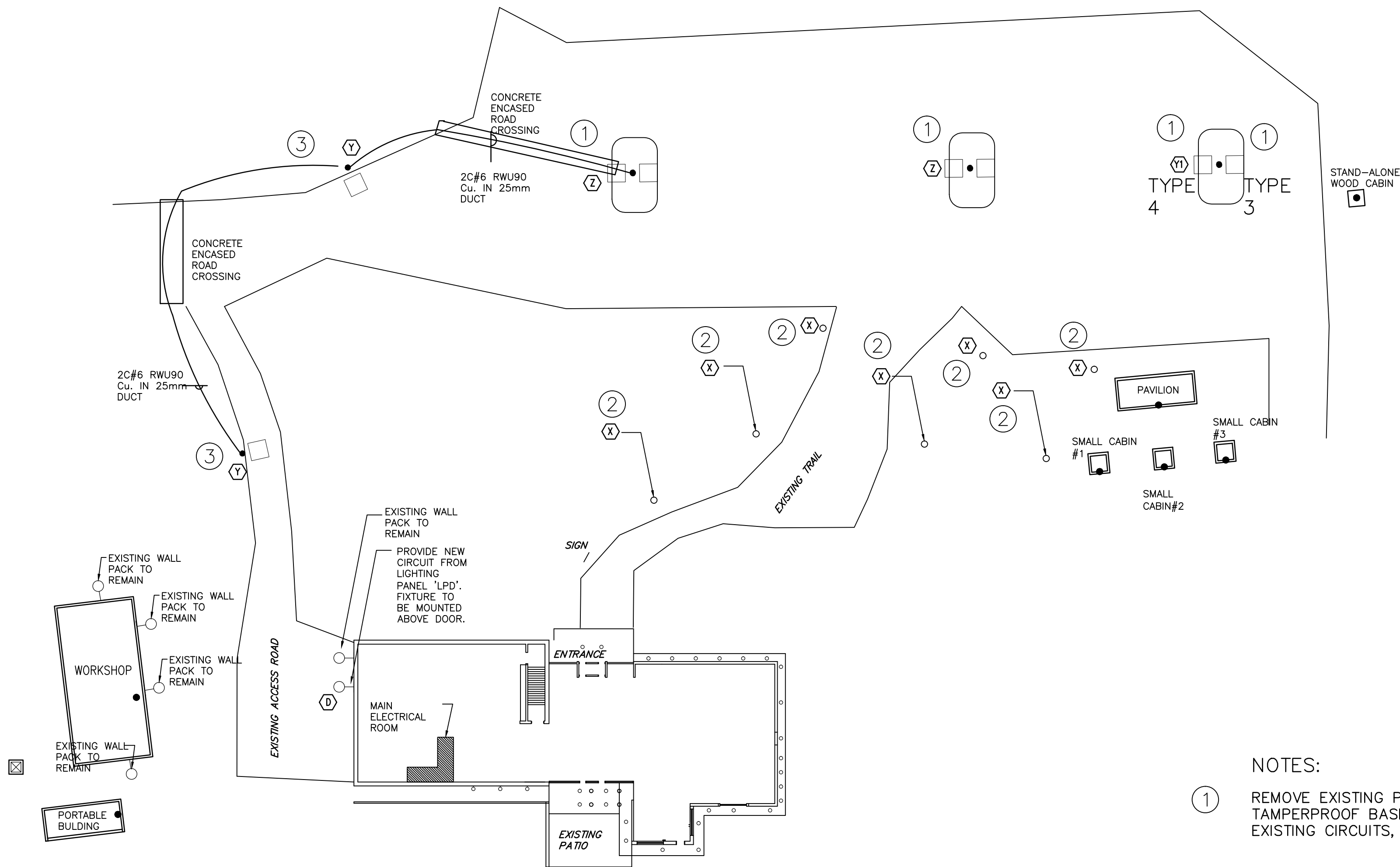
06/03/2016

project no.
no. du projet

WYE-003

drawing no.
dessiné no.

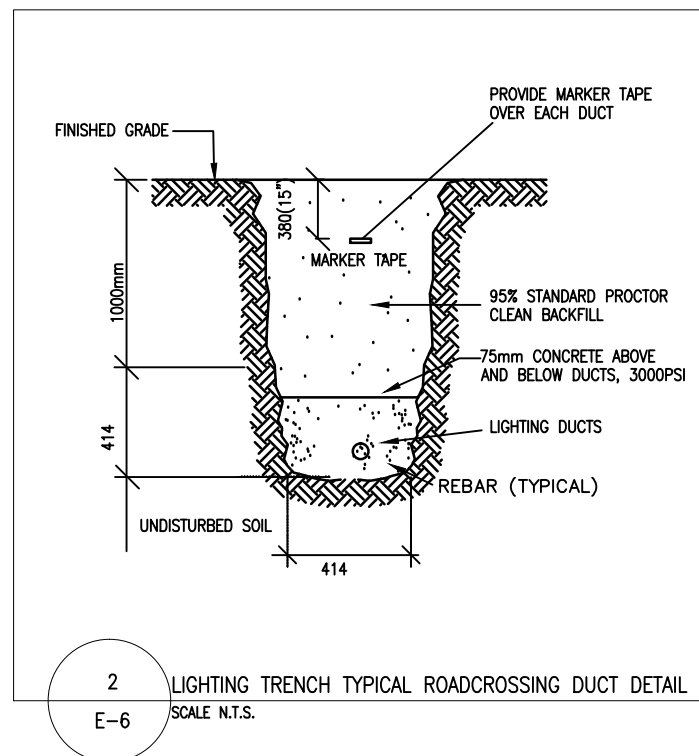
E-6



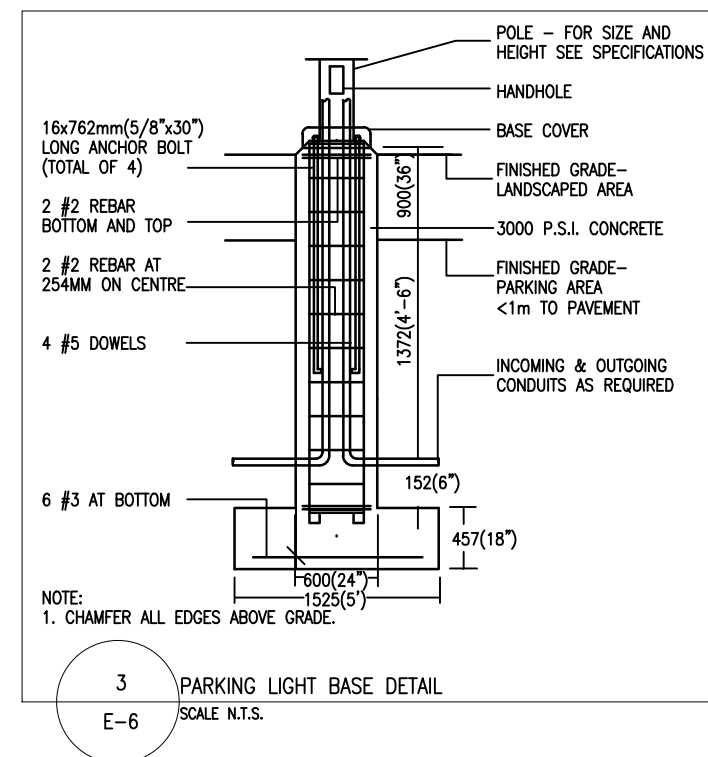
LIGHT FIXTURE SCHEDULE		
TYPE	DESCRIPTION	EQUAL
(X)	GROUND MOUNTED BOLLARD, 120 VOLT, DARK BRONZE, 1200mm HIGH 200mm DIA. ALUMINUM HOUSING, GLASS LENS, LED, -30 DEG C., 2800 LUMENS) NOTE: EXISTING ANCHOR BOLTS, CONTRACTOR TO VERIFY BCD PRIOR TO ORDERING.	LITHONIA PEERLESS LUMENULSE
(Y)	POLE MOUNTED TYPE 2 LED LUMINAIRE FULL CUTOFF, 10K LUMENS, 120V, DARK BRONZE FINISH, C/W 4" ROUND ALUMINUM POLE, DARK BRONZE, SINGLE DRILLED	LITHONIA PEERLESS LUMARK
(Y)	POLE MOUNTED TYPE 3 AND TYPE 4 LED LUMINAIRES FULL CUTOFF, 10K LUMENS PER FIXTURE, 120V, DARK BRONZE FINISH, C/W 4" ROUND ALUMINUM POLE, DARK BRONZE, DOUBLE DRILLED @ 180 DEG NOTE: EXISTING ANCHOR BOLTS, CONTRACTOR TO VERIFY BCD PRIOR TO ORDERING.	LITHONIA PEERLESS LUMARK
(Z)	2 POLE MOUNTED LED LUMINAIRES TYPE 5 FULL CUTOFF, 10K LUMENS, 120V, DARK BRONZE FINISH, C/W 4" ROUND ALUMINUM POLE, DARK BRONZE, DOUBLE DRILLED @ 180 DEG NOTE: EXISTING ANCHOR BOLTS, CONTRACTOR TO VERIFY BCD PRIOR TO ORDERING.	LITHONIA PEERLESS LUMARK

NOTES:

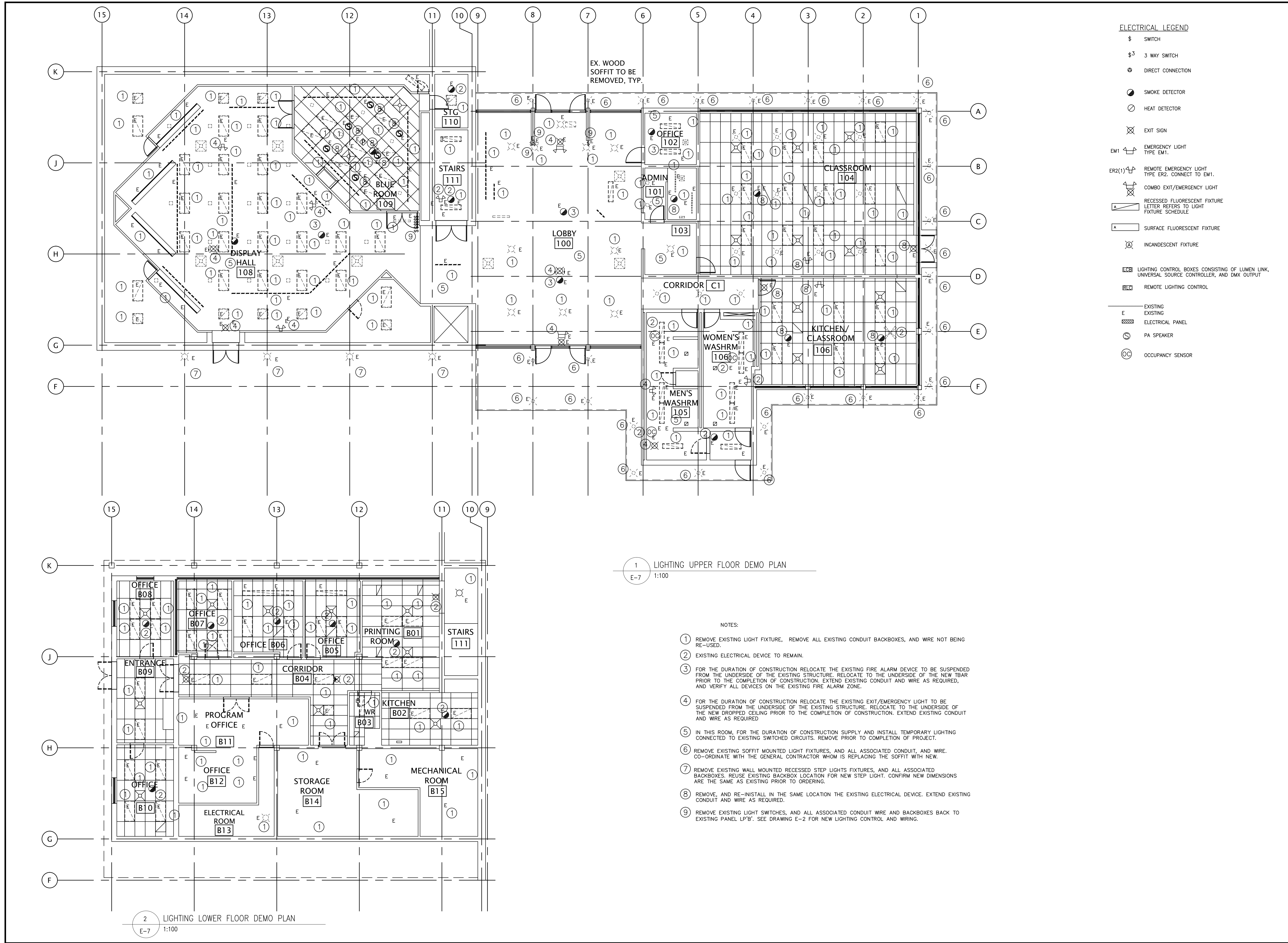
- 1 REMOVE EXISTING POLE MOUNTED LIGHT FIXTURE. SUPPLY AND INSTALL NEW TRANSITION BASE PLATE, AND FULL TAMPERPROOF BASE COVER. SUPPLY AND INSTALL POLE, AND FIXTURE, TYPE AS INDICATED, AND RECONNECT TO EXISTING CIRCUITS, AND WIRING.
- 2 REMOVE EXISTING GROUND MOUNTED BOLLARD LIGHT FIXTURE. SUPPLY AND INSTALL NEW TRANSITION BASE PLATE, AND FULL TAMPERPROOF BASE COVER. SUPPLY AND INSTALL NEW FIXTURE, TYPE AS INDICATED, AND RECONNECT TO EXISTING CIRCUITS, AND WIRING.
- 3 SUPPLY AND INSTALL NEW POLE BASE, BASE PLATE, AND FULL TAMPERPROOF BASE COVER. SUPPLY AND INSTALL POLE, AND FIXTURE, TYPE AS INDICATED, AND CONNECT TO EXISTING CIRCUITS, AND WIRING AS INDICATED.




2 LIGHTING TRENCH TYPICAL ROADCROSSING DUCT DETAIL
SCALE N.T.S.



3 PARKING LIGHT BASE DETAIL
SCALE N.T.S.





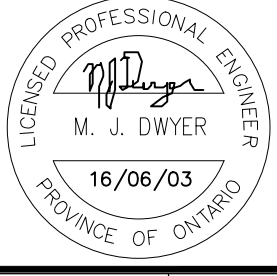
Environment and Climate Change Canada
Real Property Management Division
Technical Services

Environnement et Changement Climatique Canada
Division Gestion des Biens Immobilier
Services Techniques

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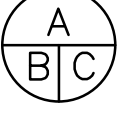
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375 BREWERY LANE ORILLIA ONTARIO L3V 7H8
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SEAL




05	ISSUED_FOR_TENDER	16/06/03
04	ISSUED_FOR_COMMENT_100%	16/04/27
03	ISSUED_FOR_COMMENT_95%	16/03/04
02	ISSUED_FOR_COMMENT	16/01/25
01	ISSUED_FOR_COMMENT	14/11/12
revision		date


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A Detail No.
No. du détail



B drawing no. - where detail required
dessin no. - où détail exigé



C drawing no. - where detailed
dessin no. - où détaillé

project title
titre du projet

MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO

LIGHTING_RETROFIT_ &
WASHROOM_RENOVATION

drawing title
titre du dessin

LIGHTING_DEMO_PLANS

drawn by
dessiné par

MJD

designed by
conc par

MJD

approved by
approuvé par

MJD

tender
soumission

project manager
administrateur de projets
ROD_KHALED

project date
date du projet

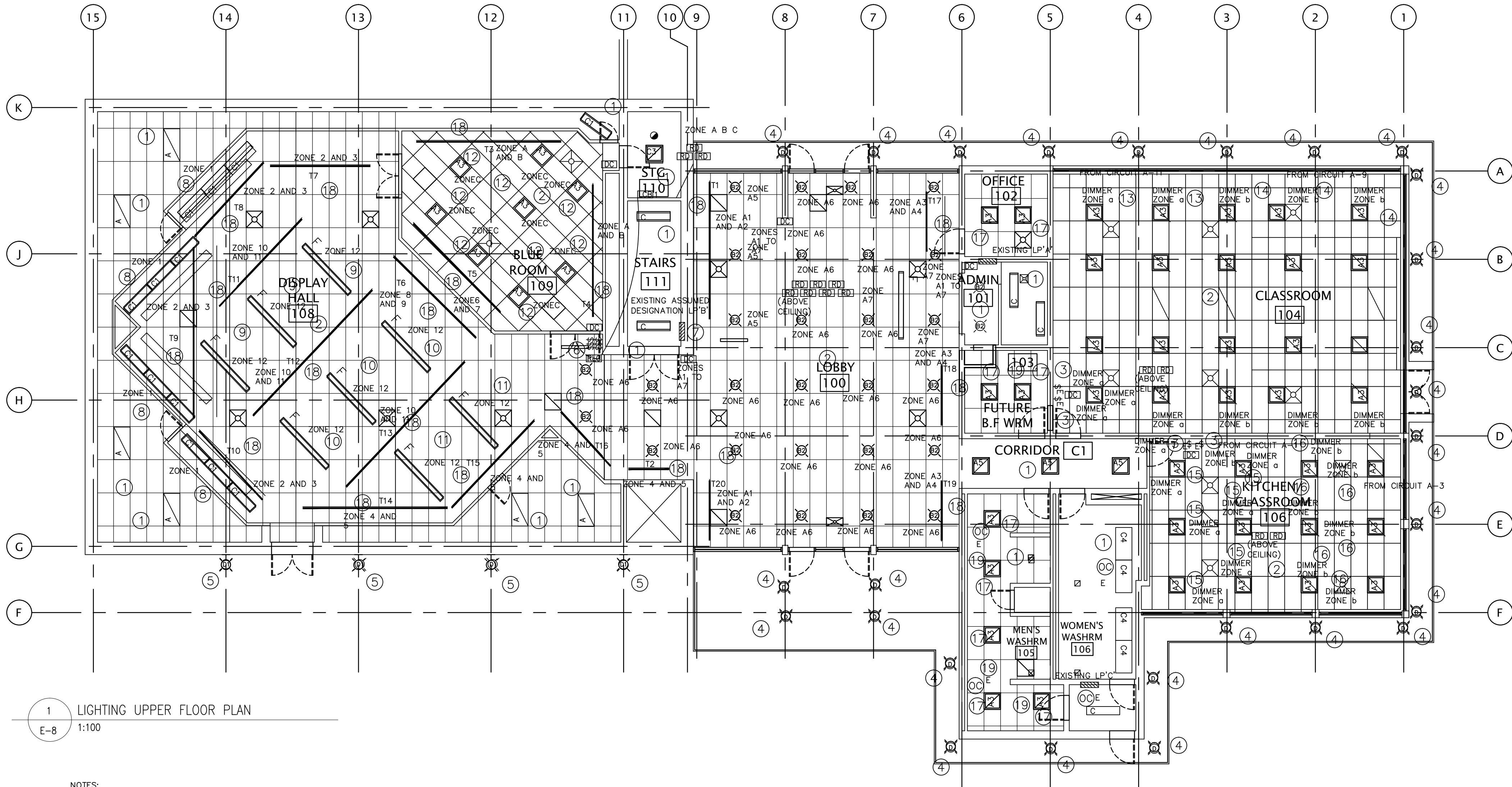
06/03/2016

project no.
no. du projet

WYE-003

drawing no.
dessiné no.

E-7



1 LIGHTING UPPER FLOOR PLAN
E-8 1:100

ELECTRICAL LEGEND

- \$ SWITCH
- \$3 3 WAY SWITCH
- ⊙ DIRECT CONNECTION
- ☉ SMOKE DETECTOR
- ☼ HEAT DETECTOR
- ✕ EXIT SIGN
- EM1 EMERGENCY LIGHT TYPE EM1.
- ER2(1) REMOTE EMERGENCY LIGHT TYPE ER2. CONNECT TO EM1.
- COMBO EXIT/EMERGENCY LIGHT
- RECESSED FLUORESCENT FIXTURE LETTER REFERS TO LIGHT FIXTURE SCHEDULE
- SURFACE FLUORESCENT FIXTURE
- INCANDESCENT FIXTURE
- LIGHTING CONTROL BOXES CONSISTING OF LUMEN LINK, UNIVERSAL SOURCE CONTROLLER, AND DMX OUTPUT
- REMOTE LIGHTING CONTROL
- EXISTING
- EXISTING ELECTRICAL PANEL
- PA SPEAKER
- LIGHTING CONTROL BOARD
- REMOTE LIGHTING CONTROLLER
- DIMMING CONTROLLER
- REMOTE DIMMER

NOTES:

- EXISTING LIGHT FIXTURE LOCATION. SUPPLY AND INSTALL NEW LIGHT FIXTURE, TYPE AS INDICATED. EXTEND EXISTING CONDUIT AND WIRE FROM EXISTING SWITCHED CIRCUIT, AND RECONNECT.
- NEW LIGHT FIXTURES TO BE LOCATED IN ROOM. SUPPLY AND INSTALL NEW LIGHT FIXTURES IN ROOM, IN LOCATIONS AS INDICATED. SUPPLY AND INSTALL NEW EMT AND WIRING AS REQUIRED, TO ACCOMMODATE NEW DIMMING, AND ZONING AS INDICATED. CONNECT TO EXISTING CIRCUITS SERVING THE ROOM.
- EXISTING LIGHT SWITCH LOCATIONS TO BE REPLACED WITH NEW 0-10 VOLT DIMMERS. LIGHTING LAYOUT INDICATES LIGHTS CONTROLLED BY EACH DIMMER.
- SUPPLY AND INSTALL NEW SOFFIT MOUNTED LIGHT FIXTURES. CO-ORDINATE WITH THE GENERAL CONTRACTOR WHOM IS REPLACING THE SOFFIT WITH NEW. SUPPLY AND INSTALL NEW TYPE D FIXTURES IN LOCATIONS AS INDICATED. SUPPLY AND INSTALL ALL NEW CONDUIT, AND WIRE FROM EXISTING EXTERIOR SWITCHED CIRCUIT, AND RECONNECT.
- SUPPLY AND INSTALL NEW WALL MOUNTED STEP LIGHTS FIXTURES. TYPE AS INDICATED IN THE SAME LOCATIONS AS THE EXISTING. EXTEND EXISTING CONDUIT, AND WIRE FROM EXISTING EXTERIOR SWITCHED CIRCUIT, AND RECONNECT.
- REMOVE ALL EXISTING LIGHT SWITCHES SERVING THE DISPLAY HALL. SUPPLY AND INSTALL NEW LIGHTING CONTROL SYSTEM. SEE ALSO DETAIL 2/E-2. EXTEND EXISTING CONDUIT, AND WIRE FROM EXISTING CIRCUITS SERVING THE ROOM, AND RECONNECT.
- EXISTING LP'S TO REMAIN. EXISTING PANEL S.O.D. 00. REMOVE 10 SINGLE POLE BREAKERS, AND REPLACE WITH 10 HALF SIZE BREAKERS (DUAL 15A FOR 24 BREAKERS TOTAL). RECONNECT THE 10 ORIGINAL CIRCUITS. CONNECT NEW AS FOLLOWS:
1. 120 VOLT 15A 1 POLE 2C#12 RW90 Cu. IN 12mm CONDUIT, TO DMX OUTPUT INTERFACE (SCD96)
2. 120 VOLT 15A 1 POLE 2C#12 RW90 Cu. IN 12mm CONDUIT TO UNIVERSAL SOURCE CONTROLLER (SC-96)
3. 208 VOLT 15A 3 POLE 4C#12 RW90 Cu. IN 19mm C. TO LUMEN LINK (LNK-208-GT)
4. 120 15A 1 POLE 15 SPARES
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE LCP (UNIVERSAL LIGHTING CONTROLLER) ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL BULKHEAD. SEE 2/E-2.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE LCP (UNIVERSAL LIGHTING CONTROLLER) ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM. SEE 2/E-2.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE LCP (UNIVERSAL LIGHTING CONTROLLER) ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM. SEE 2/E-2.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.

- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.
- GROUP OF FIXTURES IS TO BE CONNECTED WITH NEW 2C#12 RW90 Cu. IN 12mm CONDUIT TO THE DIMMER SWITCH ON A SINGLE 0-10 VOLT CIRCUIT., FED FROM THE EXISTING UNSWITCHED CIRCUIT FEEDING THE LIGHTS IN THE ORIGINAL ROOM.
- SUPPLY AND INSTALL NEW LIGHT FIXTURES, TYPE AS INDICATED. EXTEND EXISTING CONDUIT AND WIRE TO ACCOMMODATE NEW DROPPED TBAR CEILING, FROM EXISTING SWITCHED CIRCUIT, AND RECONNECT.
- CONNECT NEW LIGHT FIXTURES WITH NEW BREAKERS, CONDUIT, WIRE, AND DIMMERS, FROM PANELS LP'A, AND LP'B' AS FOLLOWS:

NOTE: ADDRESSABLE DIMMING FIXTURES DO NOT REQUIRE IN LINE SWITCHING, CONDUIT AND WIRE IS TO FEED THE FIXTURE DIRECTLY FROM THE BREAKERS.

LP'A
CCT A-13 FIXTURES T1,T2,T17,T18,T19,T20 ROOM 100
CCT A-15 FIXTURES ON ZONES 56 TO 79 ROOM 100

LP'B
CCT B-1 FIXTURES T3,T4,T5 ROOM 109
CCT B-3 FIXTURES T7,T8,T9,T10 IN ROOM 108
CCT B-5 FIXTURES T11,T12,T13,T14,T15,T16 ROOM 108

SUPPLY AND INSTALL NEW LIGHT FIXTURES, TYPE AS INDICATED.

INTERIOR LIGHT FIXTURE SCHEDULE

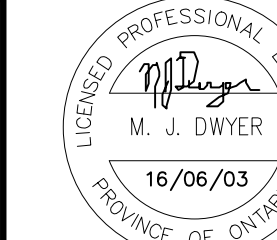
REF	MANUFACTURER & MODEL	FIXTURE VA	LAMP TYPE	MOUNTING	REMARKS
A	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	37	LED	RECESSED CEILING	120 VOLT, RECESSED TROFFER, 3500 DMX K, 4300 LUMENS, 115 LUMENS PER WATT, center basket, volumetric, 0-10 VOLT DIMMING, STEEL HOUSING A12 LENS, SPRING LATCHED, HINGED FRAME, TBAR TRIM, 60,000 HOUR L70, CRI>80, COMPATIBLE WITH LIGHTING CONTROL, dimmable
A1	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	50	LED	RECESSED CEILING	120 VOLT, RECESSED TROFFER, 3500 DMX K, 4300 LUMENS, 86 LUMENS PER WATT, center basket, volumetric, 0-10 VOLT DIMMING, STEEL HOUSING A12 LENS, SPRING LATCHED, HINGED FRAME, DEYNALL TRIM, 60,000 HOUR L70, CRI>80, COMPATIBLE WITH LIGHTING CONTROL dimmable
A3	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	37	LED	RECESSED CEILING	120 VOLT, RECESSED TROFFER, 3500 DMX K, 4300 LUMENS, 115 LUMENS PER WATT, center basket, volumetric 0-10 VOLT DIMMING, STEEL HOUSING A12 LENS, SPRING LATCHED, HINGED FRAME, DEYNALL TRIM, 60,000 HOUR L70, CRI>80, COMPATIBLE WITH LIGHTING CONTROL dimmable
A5	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	37	LED	RECESSED CEILING	120 VOLT, RECESSED TROFFER, 3500 DMX K, 4300 LUMENS, 115 LUMENS PER WATT, center basket, volumetric 0-10 VOLT DIMMING, STEEL HOUSING A12 LENS, SPRING LATCHED, HINGED FRAME, DEYNALL TRIM, 60,000 HOUR L70, CRI>80, COMPATIBLE WITH LIGHTING CONTROL dimmable
B2	ACCEPTABLE MANUFACTURERS LUMENLISE, PORTFOLIO, LITHONIA	25	LED	RECESSED CEILING	120 VOLT, 100mm RECESSED RUT LIGHT, 3500K, 2000 LUMENS, 83 LUMENS PER WATT, 0-10 VOLT DIMMABLE, BLACK TRIM, NEW CONSTRUCTION HOUSING, 90,000 HOUR L70, CRI >80
C	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	43	LED	SURFACE CEILING	120 VOLT, SURFACE TROFFER, 3500K, 4800 LUMENS, 115 LUMENS PER WATT, 0-10 VOLT, 60,000 HOUR L70, CRI > 80, COMPATIBLE WITH LIGHTING CONTROL SYSTEM, DIMMABLE, HINGED FRAME 300X1200 FULL STEEL BODY
C1	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	37	LED	SURFACE CEILING	120 VOLT, SURFACE STRIP, 4000K, 2000 LUMENS, WHITE OPAL LENS, 0-10 VOLT DIMMABLE, 87 LUMENS PER WATT, 50,000 HOUR L70 DIMMABLE 1200mm
C3	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	37	LED	SURFACE CEILING	120 VOLT, SURFACE ARCHITECTURAL TROFFER, C/W CLEAR ACRYLIC LENS PRODUCE NO LEO FIDALIZATION, 3500K, 4300 LUMENS, 116 LUMENS PER WATT 0-10V DIMMABLE, 448,000 HOUR L70, > 80 CRI, 600X200, FULL STEEL BODY
C4	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, PIONEER	43	LED	SURFACE CEILING	120 VOLT, SURFACE ARCHITECTURAL TROFFER, C/W CLEAR ACRYLIC LENS PRODUCE NO LEO FIDALIZATION, 3500K, 4300 LUMENS, 116 LUMENS PER WATT 0-10V DIMMABLE, 448,000 HOUR L70, > 80 CRI, 600X200, FULL STEEL BODY
D	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, KENALL	12.2	LED	RECESSED SOFFIT	120 VOLT, 150mm DIAMETER LOW PROFILE SURFACE DOWNLIGHT, WHITE TRIM, ALUMINUM HOUSING, 3000 DMX K, CRI>80, 50,000 HOUR LAMP LIFE, SUITABLE FOR MOUNTING IN 4" OCTAGON BOX, OR STEEL HOUSING, (TO BE SUPPLIED WITH FIXTURE), 600 LUMENS
D1	ACCEPTABLE MANUFACTURERS COOPER, LITHONIA, VISTA, KIRLIN		LED	RECESSED WALL	120 VOLT, SPECULAR CLEAR ALZAR REFLECTOR, 3000 K, ALUMINUM TRIM, STEP LIGHT, 10"x5", MESH MOUNTS RESISTING OPENING.
E				EXISTING	
F	ACCEPTABLE MANUFACTURERS COOPER, MARK, PIONEER		LED	SURFACE CEILING	120 VOLT, LINEAR SURFACE MOUNT WIDE BODY, 2400X300 BLACK HOUSING, 2400 LUMENS, 3500 K FROSTED ACRYLIC LENS, 0-10V DIMMING 60,000 HOUR L70
T15	ACCEPTABLE MANUFACTURERS LUMENLISE, HALO, BRUCK	5W/HEAD	LED	SURFACE CEILING	2 CCT TRACK, 2 NEUTRAL, BLACK 12" LONG, C/W 14 HEADS, EACH HEAD TO DELIVER 1300 LUMENS, 90,000 HOUR L70, DIMMABLE, NARROW FLOOD, 3500 K.
T2, T17, T18, T19, T20	ACCEPTABLE MANUFACTURERS LUMENLISE, HALO, BRUCK	5W/HEAD	LED	SURFACE CEILING	2 CCT TRACK, 2 NEUTRAL, BLACK 6" LONG, C/W 9 HEADS, EACH HEAD TO DELIVER 1300 LUMENS, 90,000 HOUR L70, DIMMABLE, NARROW FLOOD 3500 K.
T3, T4, T5	ACCEPTABLE MANUFACTURERS LUMENLISE, HALO, BRUCK	5W/HEAD	LED	SURFACE CEILING	2 CCT TRACK, 2 NEUTRAL, BLACK 16" LONG, C/W 14 HEADS, EACH HEAD TO DELIVER 1300 LUMENS, 90,000 HOUR L70, DIMMABLE, NARROW FLOOD, 3500 K.
T1, T6, T9, T11, T12, T13	ACCEPTABLE MANUFACTURERS LUMENLISE, HALO, BRUCK	5W/HEAD	LED	SURFACE CEILING	2 CCT TRACK, 2 NEUTRAL, BLACK 16" LONG, C/W 14 HEADS, EACH HEAD TO DELIVER 1300 LUMENS, 90,000 HOUR L70, DIMMABLE, NARROW FLOOD, 3500 K.
T7, T8, T10, T14, T16	ACCEPTABLE MANUFACTURERS LUMENLISE, HALO, BRUCK	5W/HEAD	LED	SURFACE CEILING	2 CCT TRACK, 2 NEUTRAL, BLACK 10" LONG, C/W 12 HEADS, EACH HEAD TO DELIVER 1300 LUMENS, 90,000 HOUR L70, DIMMABLE, NARROW FLOOD, 3500 K.

Environment and Climate Change Canada
Real Property Management Division
Technical Services
Environnement et Changement Climatique Canada
Division Gestion des Biens Immobilier Services Techniques

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revision		date

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- B No. du detail
- C drawing no. - where detail required
- C drawing no. - where detailed
- C dessin no. - où détaillé

project title
titre du projet

MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO

LIGHTING_RETROFIT_&
WASHROOM_RENOVATION

drawing title
titre du dessin

LIGHTING_UPPER_FLOOR_PLAN

drawn by
dessiné par

MJD

designed by
conc par

MJD

approved by
approuvé par

MJD

tender
soumission

project manager
administrateur de projets

ROD_KHALED

project date
date du projet

06/03/2016

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no. du projet

WYE-003

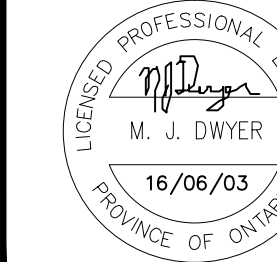
drawing no.
dessiné no.

E-8

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project title
titre du projet
MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO

**LIGHTING_RETROFIT_ &
WASHROOM_RENOVATION**

drawing title
titre du dessin
LIGHTING_LOWER_FLOOR_PLAN

drawn by
dessiné par

MJD

designed by
conçue par

MJD

approved by
approuvé par

MJD

tender
soumission
project manager
administrateur
de projets
ROD_KHALED

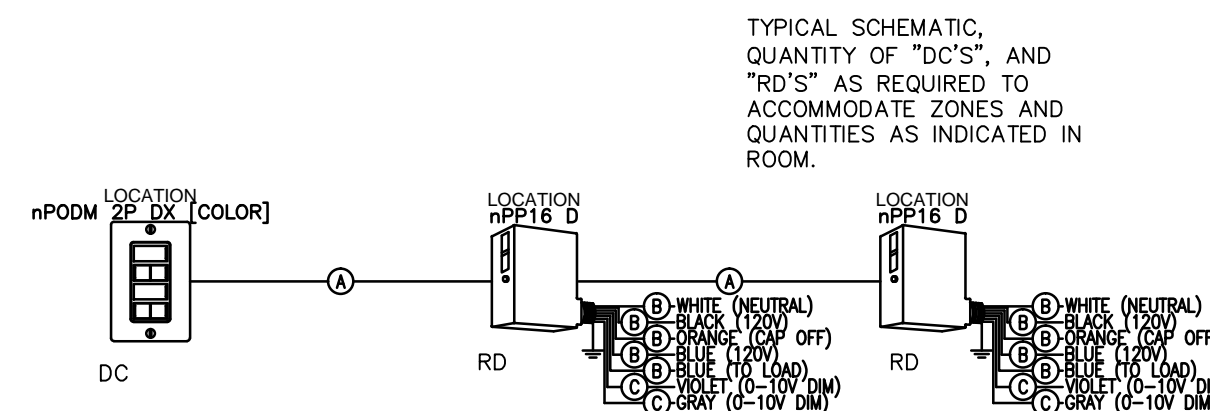
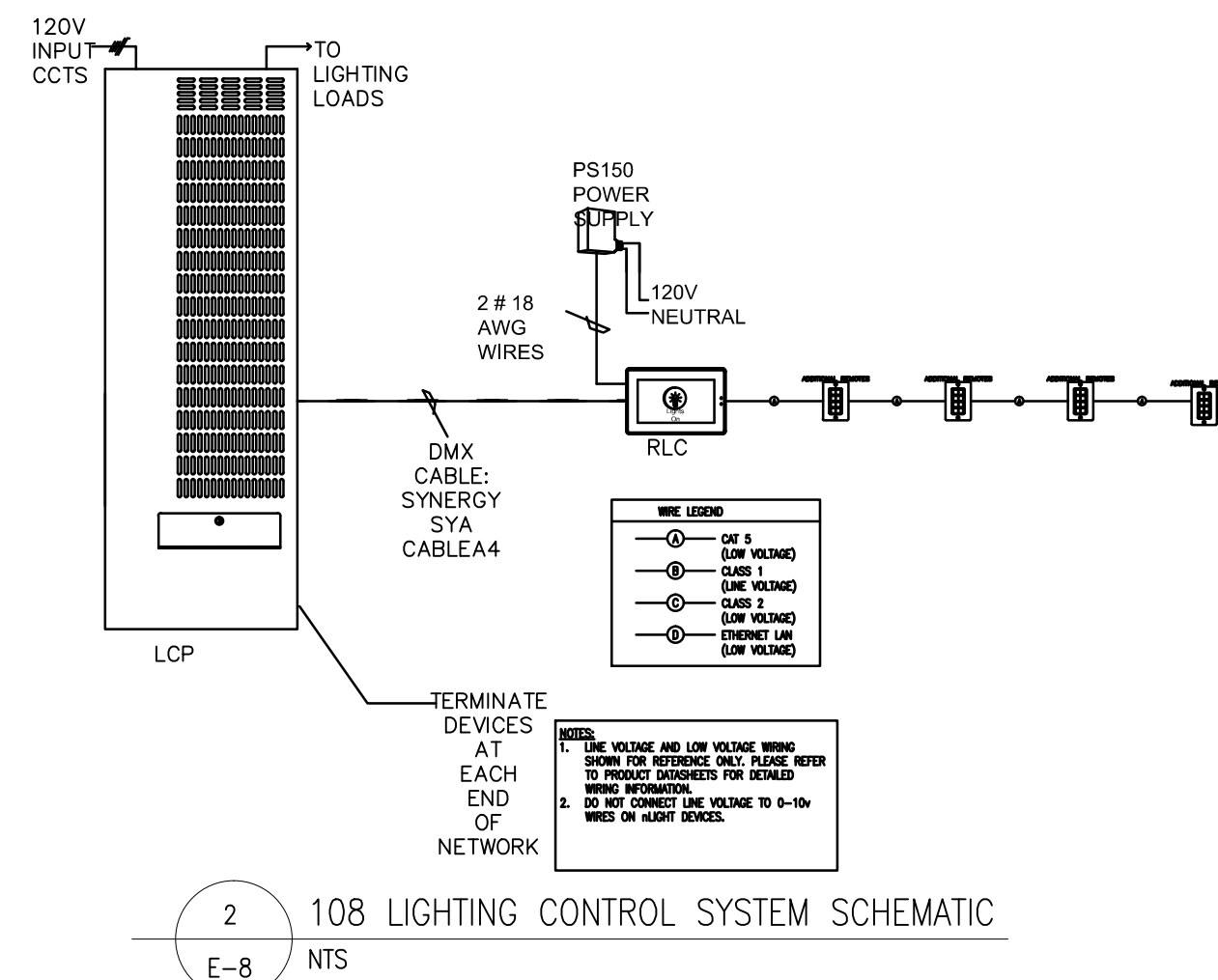
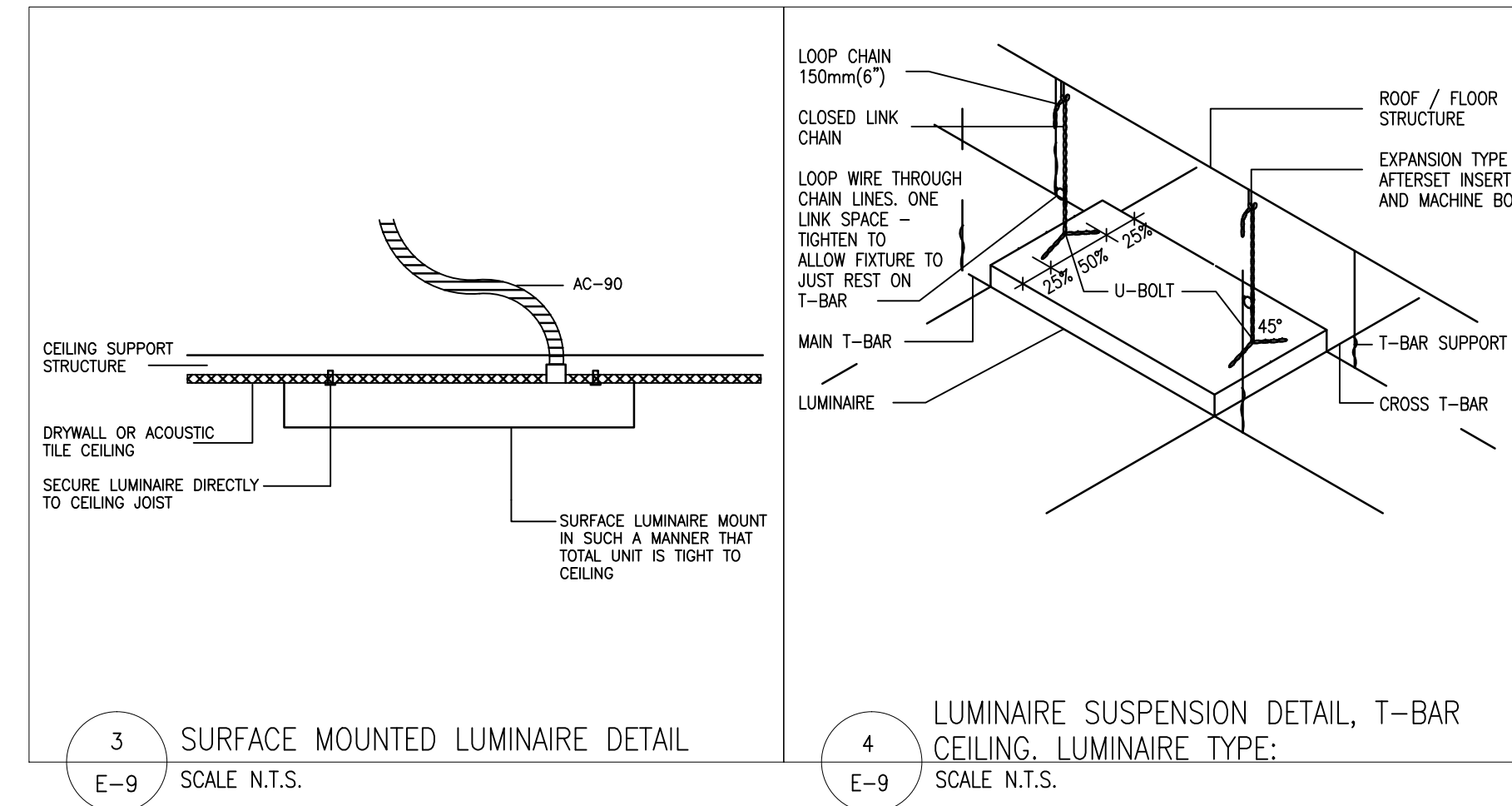
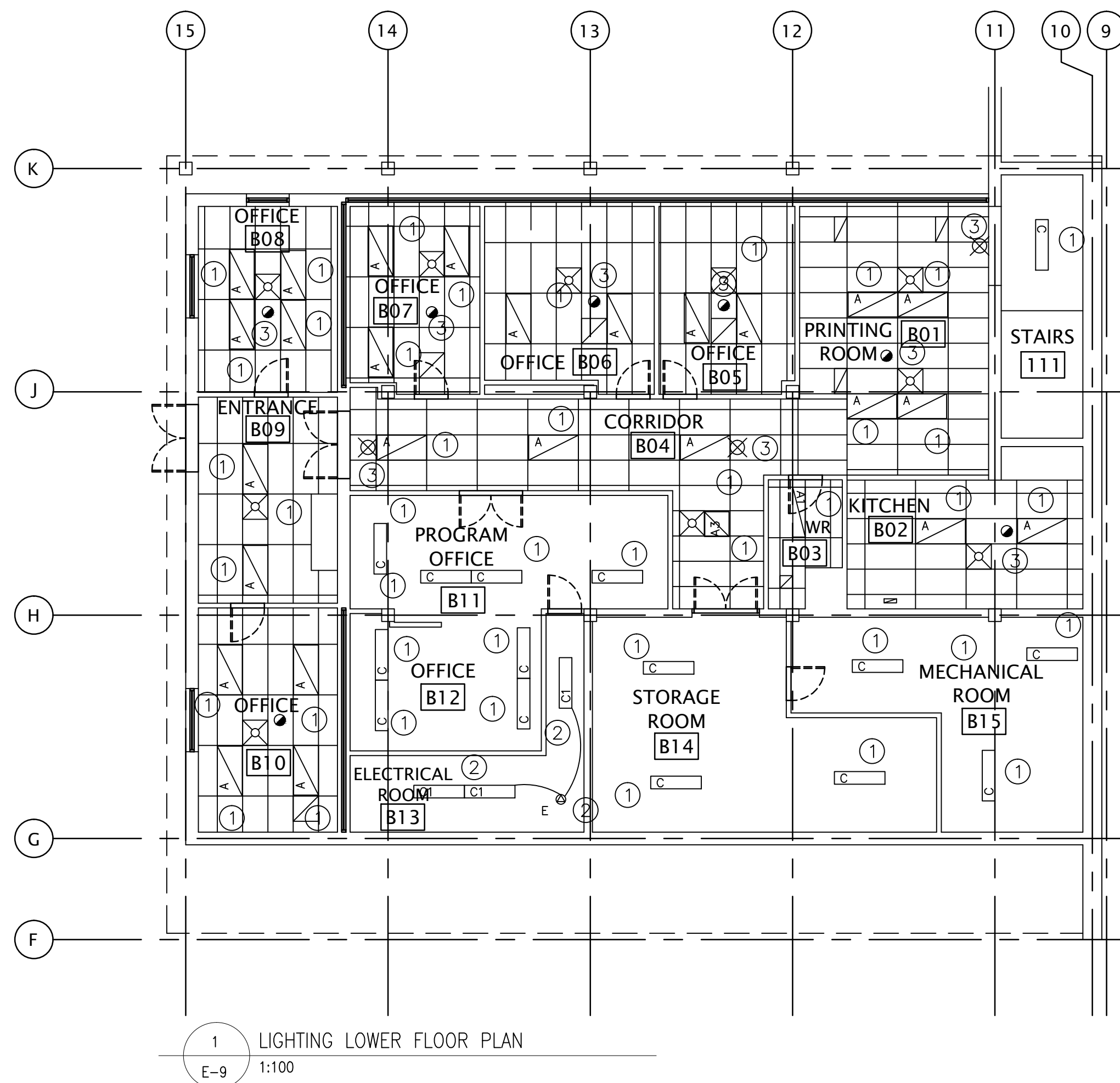
project date
date du projet
06/03/2016

project no.
no. du projet
WYE-003

drawing no.
dessiné no.
E-9

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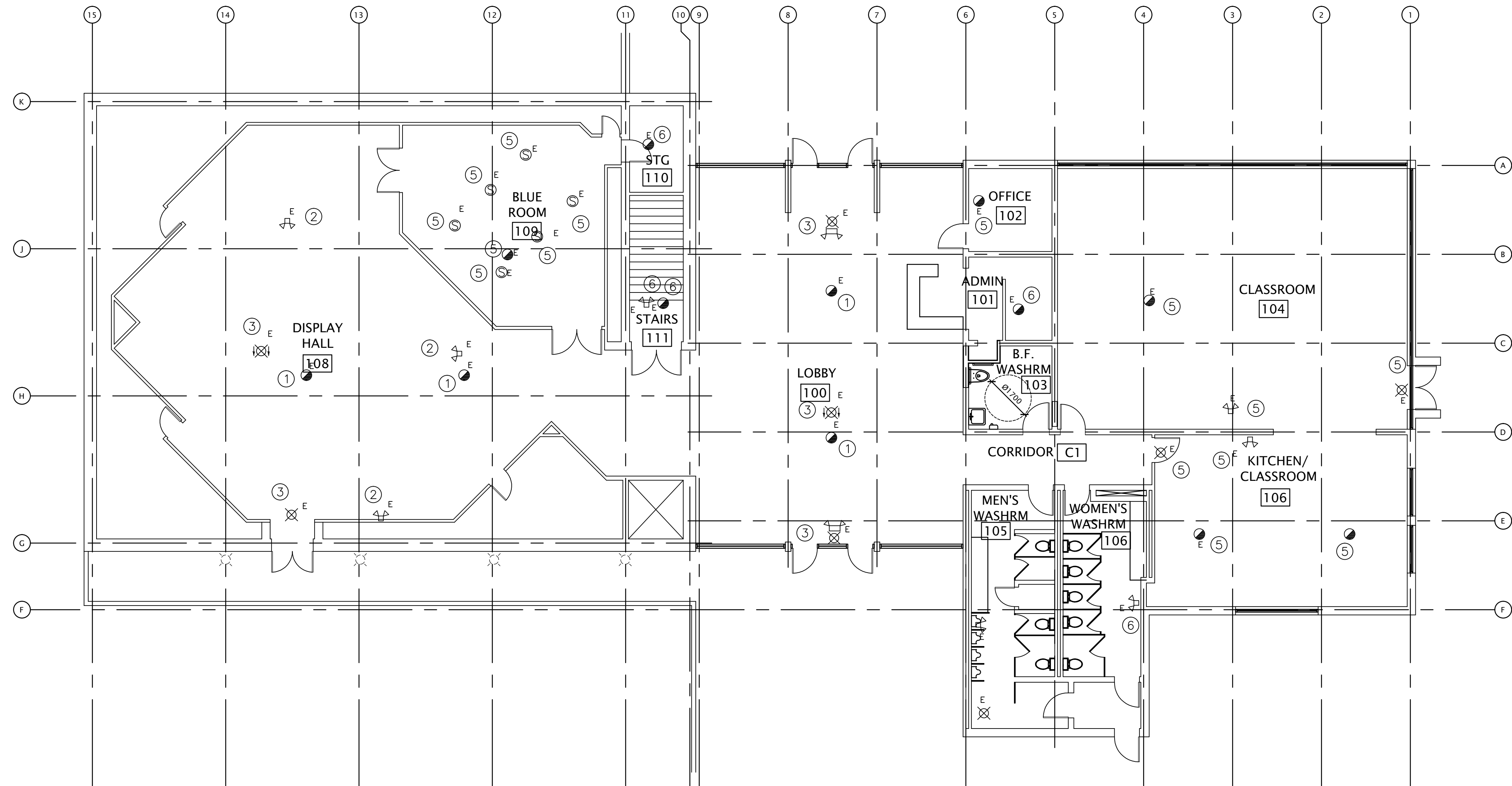
- EXISTING LIGHT FIXTURE LOCATION. SUPPLY AND INSTALL NEW LIGHT FIXTURE. TYPE AS INDICATED. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED, AND RECONNECT, TO EXISTING SWITCHING.
- SUPPLY AND INSTALL NEW LIGHT FIXTURES TYPE AS INDICATED, IN LOCATIONS AS INDICATED. SUPPLY AND INSTALL NEW EMT AND WIRING AS REQUIRED. CONNECT TO EXISTING SWITCHING.
- EXISTING ELECTRICAL DEVICE TO REMAIN.



3 100, 109, 104, 106 LIGHTING CONTROL SYSTEM SCHEMATIC
E-8 NTS

WIRE LEGEND	
—A—	CAT 5 (LOW VOLTAGE)
—B—	CLASS 1 (LINE VOLTAGE)
—C—	CLASS 2 (LOW VOLTAGE)
—D—	ETHERNET LAN (LOW VOLTAGE)

NOTES:
1. LINE VOLTAGE AND LOW VOLTAGE WIRING SHOWN FOR REFERENCE ONLY. PLEASE REFER TO PRODUCT DATASHEETS FOR DETAILED WIRING INFORMATION.
2. DO NOT CONNECT LINE VOLTAGE TO 0-10V WIRES ON LIGHT DEVICES.



1 ELECTRICAL UPPER FLOOR PLAN
E-10 1:100

NOTES:

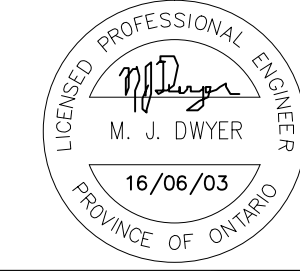
- ① EXISTING FIRE ALARM DEVICE TO BE RELOCATED TO UNDERSIDE NEW TBAR CEILING SYSTEM. SUPPLY AND INSTALL NEW MOUNTING HARDWAR AND BACKBOX. EXTEND EXISTING AC90 CABLE FEEDING FIRE ALARM DEVICE. SUPPLY AND INSTALL NEW WIRING AS REQUIRED, IN NEW EMT. VERIFY ZONE THAT DEVICE IS OPERATIONAL. VERIFY ZONE AT COMPLETION OF PROJECT.
- ② EXISTING EMERGENCY LIGHT TO BE RELOCATED TO NEW TBAR CEILING SYSTEM. SUPPLY AND INSTALL NEW MOUNTING HARDWARE. EXTEND EXISTING AC90 CABLE FEEDING EMERGENCY LIGHT, SUPPLY AND INSTALL NEW WIRING AS REQUIRED, IN NEW EMT.
- ③ EXISTING EXIT LIGHT TO BE RELOCATED TO NEW TBAR CEILING SYSTEM. SUPPLY AND INSTALL NEW MOUNTING HARDWARE. EXTEND EXISTING AC90 CABLE FEEDING EXIT LIGHT. SUPPLY AND INSTALL NEW WIRING AS REQUIRED, IN NEW EMT.
- ④ EXISTING LIGHT SWITCH LOCATIONS TO REMAIN. SUPPLY AND INSTALL TWO NEW SLIDE DIMMERS. SEE DETAIL 1/E-1 FOR LIGHTS CONTROLLED BY EACH DIMMER.
- ⑤ EXISTING ELECTRICAL DEVICE TO BE RE-INSTALLED IN THE SAME LOCATION. AT COMPLETION OF CEILING REPLACEMENT. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. SUPPLY AND INSTALL NEW MOUNTING HARDWARE INDEPENDANT OF EXISTING TBAR CEILING SYSTEM.
- ⑥ EXISTING ELECTRICAL DEVICE TO REMAIN IN THE SAME LOCATION.

- ELECTRICAL LEGEND**
- \$ SWITCH
- \$3 3 WAY SWITCH
- ⊙ DIRECT CONNECTION
- SMOKE DETECTOR
- HEAT DETECTOR
- ⊗ EXIT SIGN
- EM1 EMERGENCY LIGHT TYPE EMT.
- ER2(1) REMOTE EMERGENCY LIGHT TYPE ER2. CONNECT TO EM1.
- ⊗ COMBO EXIT/EMERGENCY LIGHT
- RECESSED FLUORESCENT FIXTURE LETTER REFERS TO LIGHT FIXTURE SCHEDULE
- A SURFACE FLUORESCENT FIXTURE
- ⊗ INCANDESCENT FIXTURE
- LCB LIGHTING CONTROL BOXES CONSISTING OF LUMEN LINK, UNIVERSAL SOURCE CONTROLLER, AND DMX OUTPUT
- RLC REMOTE LIGHTING CONTROL
- EXISTING
- E EXISTING
- /// ELECTRICAL PANEL
- ⊙ PA SPEAKER

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375 BREWERY LANE ORILLIA ONTARIO L3V 7H8
PHONE (705) 327-0294 FAX 325-7940

SEAL



05	ISSUED_FOR_TENDER	16/06/03
04	ISSUED_FOR_COMMENT_100%	16/04/27
03	ISSUED_FOR_COMMENT_95%	16/03/04
02	ISSUED_FOR_COMMENT	16/01/25
01	ISSUED_FOR_COMMENT	14/11/12
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

- A Detail No.
No. du détail
- B drawing no. - where detail required
dessin no. - où détail exigé
- C drawing no. - where detailed
dessin no. - où détaillé

project title
titre du projet
MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO

LIGHTING_RETROFIT_ & WASHROOM_RENOVATION

drawing title
titre du dessin
LIGHTING_ELECTRICAL
UPPER_FLOOR_PLAN

drawn by
dessiné par
MJD

designed by
conç par
MJD

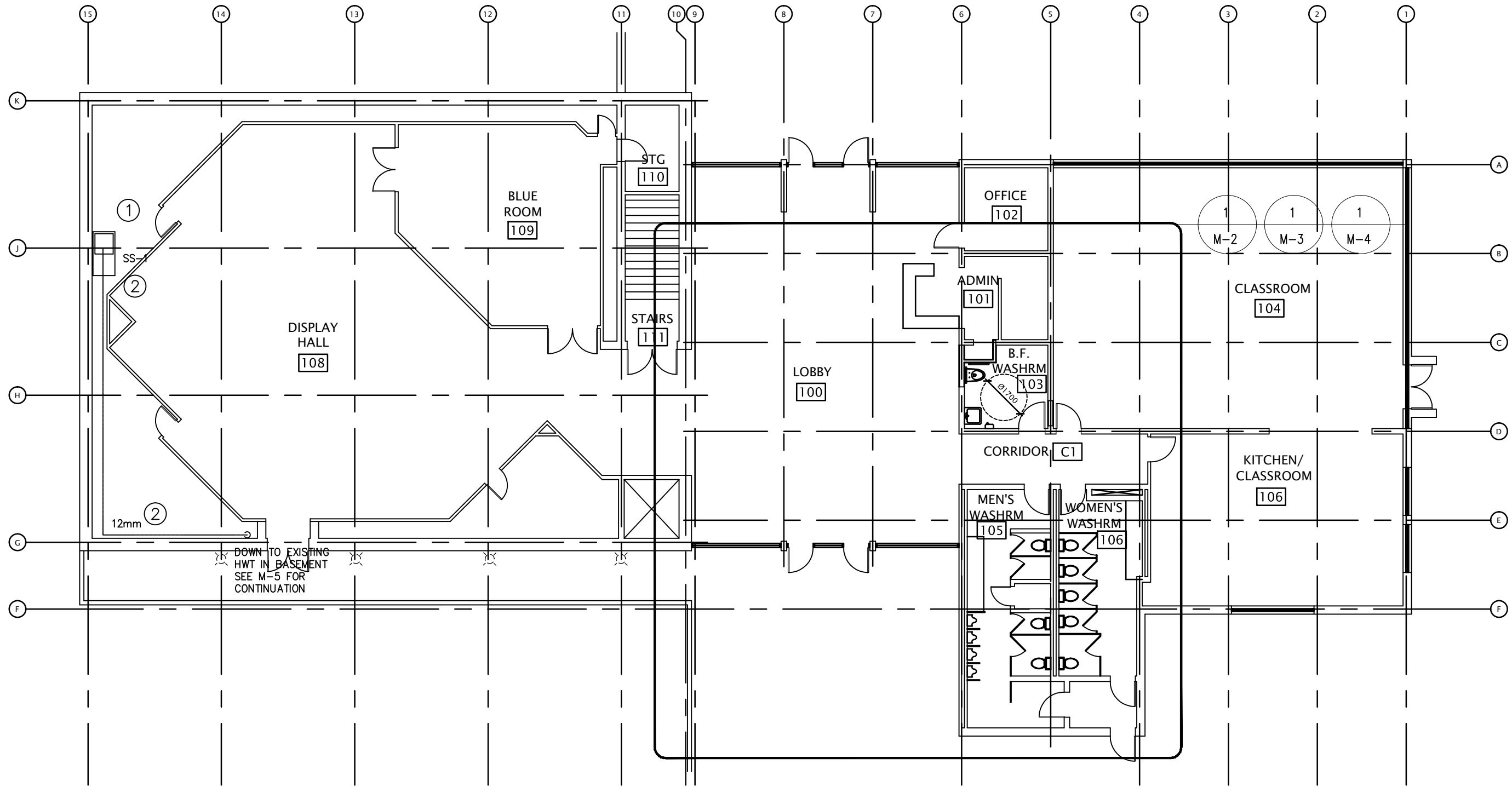
approved by
approuvé par
MJD

tender
soumission
project manager
administrateur de projets
ROD_KHALED

project date
date du projet
06/03/2016

project no.
no. du projet
WYE-003

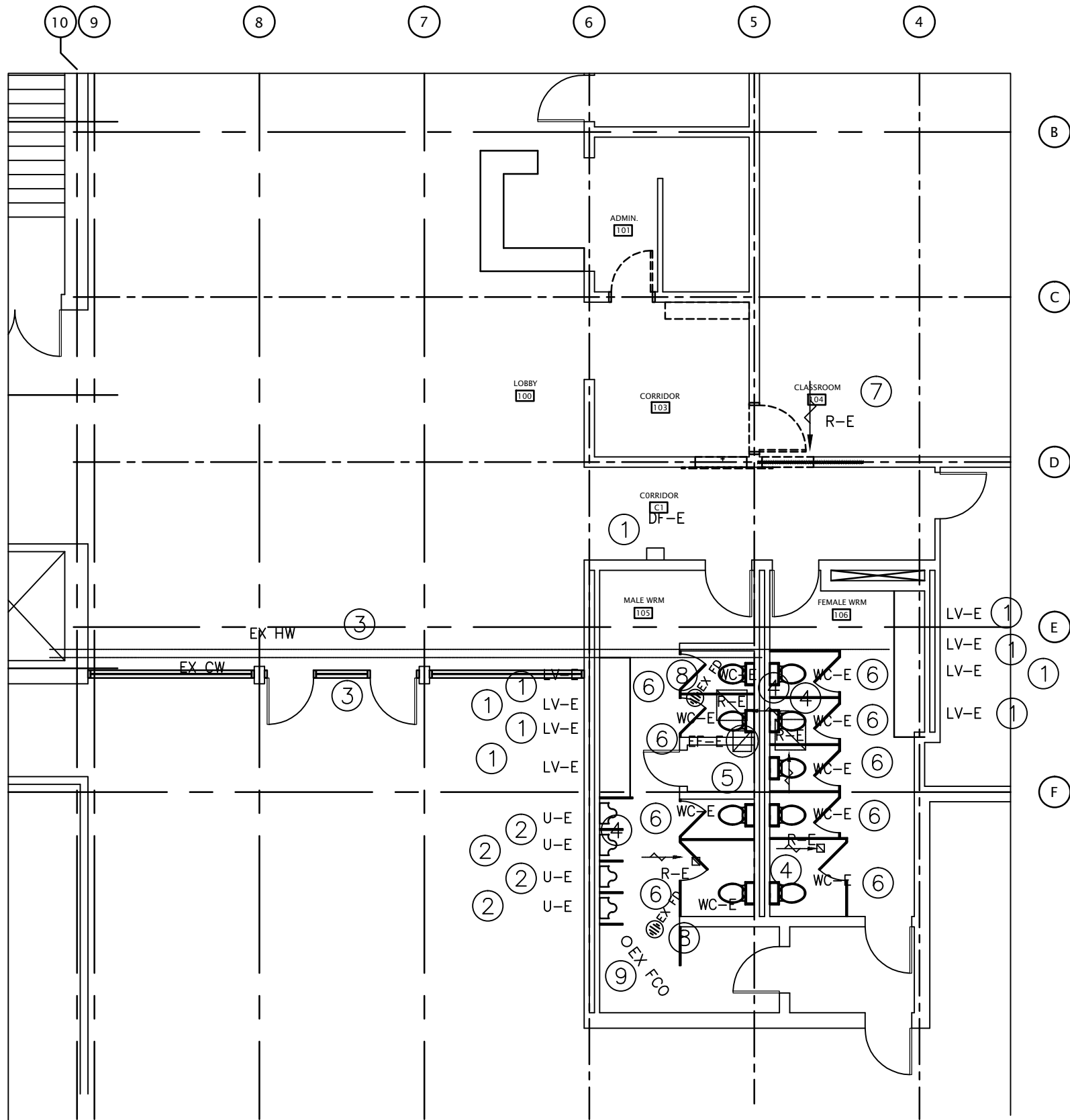
drawing no.
dessiné no.
E-10



1 MECHANICAL UPPER FLOOR KEYPLAN
M-1 NTS

- NOTES:
- 1 REMOVE EXISTING SERVICE SINK. SUPPLY AND INSTALL NEW SS-1 IN LOCATIONS AS INDICATED. EXTEND EXISTING CW AND DRAIN, AND RE-CONNECT WITH NEW SCREW DRIVER STOPS. CONNECT TO NEW HW.
 - 2 SUPPLY AND INSTALL NEW HOT WATER LINE FROM NEW SS-1 TO EXISTING HWT IN BASEMENT.

21MAR/16 project date	WYE-003 no. du projet		M-1 dessine no.
	project no.		
MJD drawn by	designed by		ROD_KHALED project manager tender submission
	approved by		
MECHANICAL_UPPER FLOOR_KEYPLAN			
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION			
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques			
PROFESSIONAL ENGINEER M. J. DWYER 16/03/21 PROVINCE OF ONTARIO			



1
M-2
MECHANICAL UPPER FLOOR DEMOLITION PLAN
1:100

NOTES:

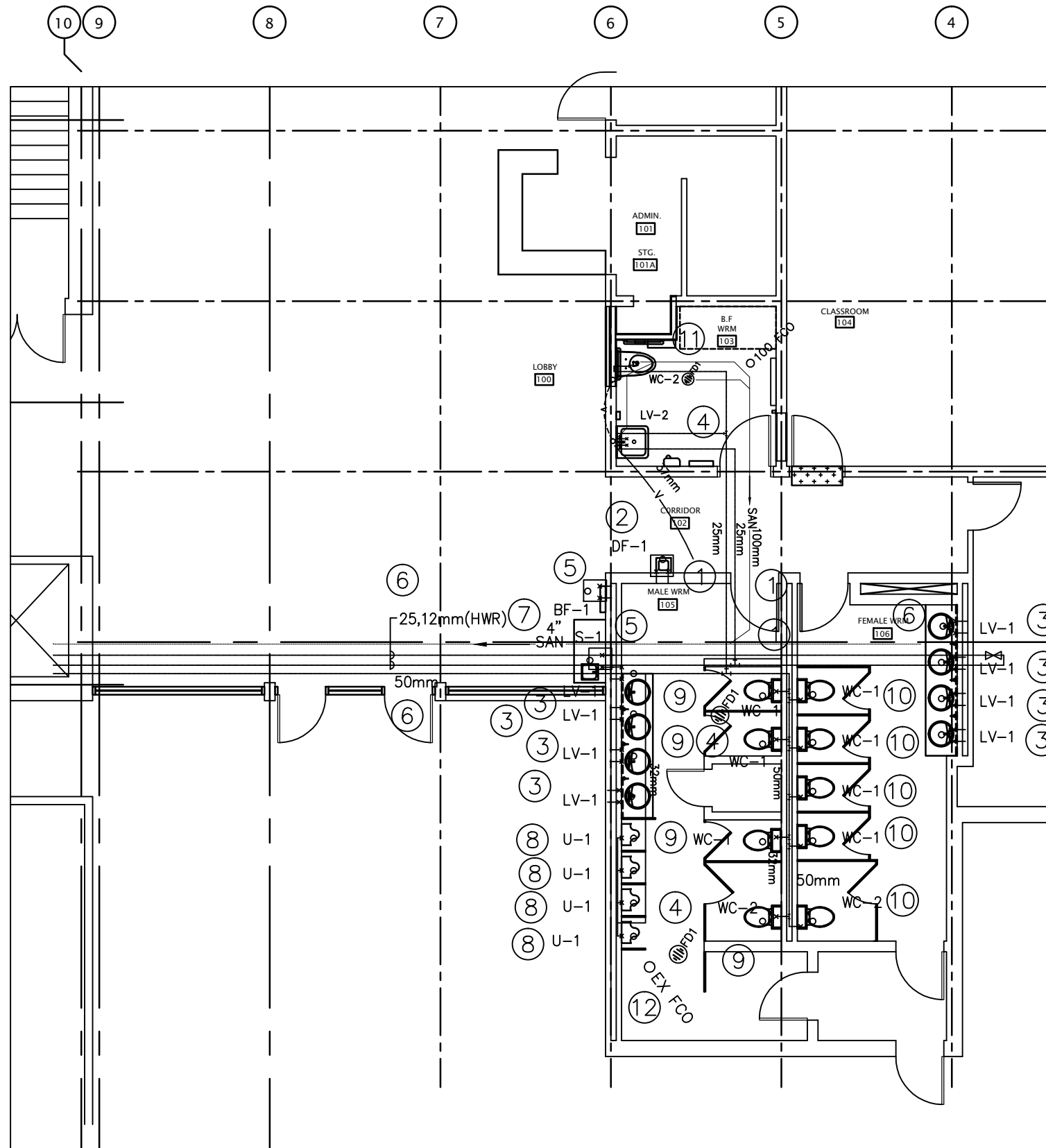
- 1 REMOVE EXISTING FIXTURE. SUPPLY AND INSTALL NEW FIXTURE, SEE DRAWING 1/M-3.
- 2 REMOVE EXISTING URINAL. EXTEND EXISTING DRAIN, AND WALL CLEANOUTS TO ACCOMMODATE NEW WALL CONSTRUCTION. SUPPLY AND INSTALL NEW FIXTURE, SEE DRAWING 1/M-3.
- 3 REMOVE EXISTING 37mm COLD WATER LINES AND THERMAL INSULATION FROM EXISTING WATER METER IN BASEMENT TO EXISTING WASHROOM GROUP. SEE DRAWING 1/M-3 FOR NEW COLD WATER LINE. RECONNECT TO ALL EXISTING TAKEOFFS.
- 4 REMOVE EXISTING RETURN AIR GRILLE, SUPPLY AND INSTALL NEW RETURN AIR GRILLE, SEE DRAWING 1/M-4.
- 5 REMOVE EXISTING ROOF MOUNTED WASHROOM EXHAUST FAN. SUPPLY AND INSTALL NEW EXHAUST FAN EF-2, MOUNT ON EXISTING CURB, SUPPLY AND INSTALL TRANSITION AS REQUIRED, SEE DRAWING 1/M-4.
- 6 REMOVE EXISTING FIXTURE AND ALL EXISTING COLD WATER SUPPLY LINES IN THE EXISTING WALL AND CEILING ASSOCIATED WITH THE FIXTURE. SUPPLY AND INSTALL NEW FIXTURE, SEE DRAWING 1/M-3.
- 7 REMOVE EXISTING RETURN AIR GRILLE FOR THE DURATION OF CONSTRUCTION, TO ACCOMMODATE NEW DOOR AND HEADER. SEE DRAWING M-4 FOR RE-INSTALLATION
- 8 REMOVE EXISTING FLOOR DRAIN, SEE DRAWING M-3 FOR NEW FLOOR DRAIN.
- 9 ADJUST EXISTING FLOOR CLEAN OUT TO ACCOMMODATE NEW FLOORING SEE DRAWING M-3 FOR REINSTALLATION.

DRAWING CODE

PLUMBING

- → EXISTING
CP-1 → CIRCULATING PUMP
→ → COLD WATER
→ → HOT WATER
→ SAN → SANITARY
- V SANITARY VENT PIPE
VTR VENT THROUGH ROOF
SAN SANITARY PIPE
WC-1 WATER CLOSET TYPE 1
LV-1 LAVATORY TYPE 1
SS-1 STAINLESS WASH TUB TYPE 1
LT-1 LAUNDRY TUB TYPE 1
HWT-1 HOT WATER TANK TYPE 1
SP-1 SUMP PUMP TYPE 1
S-1 SINK TYPE 1
DF-1 DRINKING FOUNTAIN TYPE 1
BF-1 BOTTLE FILLING STATION TYPE 1
E EXISTING
U URINAL

21MAR/16 project date date du projet	WYE-003 project no. no. du projet	M-2 drawing no. dessine no.
MJD drawn by dessiné par	ROD_KHALED project manager administrateur de projet	
MECHANICAL_UPPER FLOOR_DEMOLITION PLAN		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
PROFESSIONAL ENGINEER M. J. DWYER 16/03/21 PROVINCE OF ONTARIO		



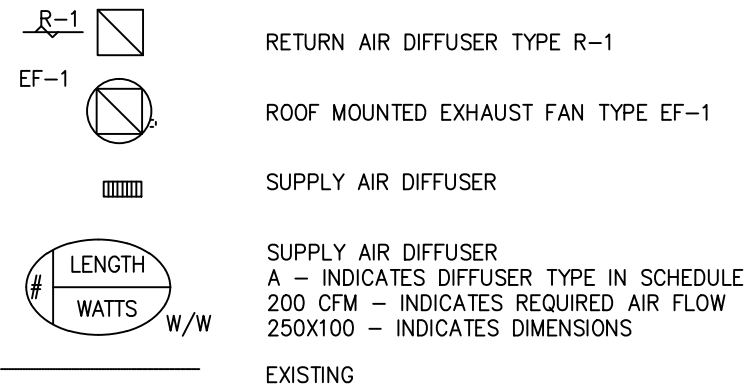
1 PLUMBING UPPER FLOOR PLAN
M-3 1:100

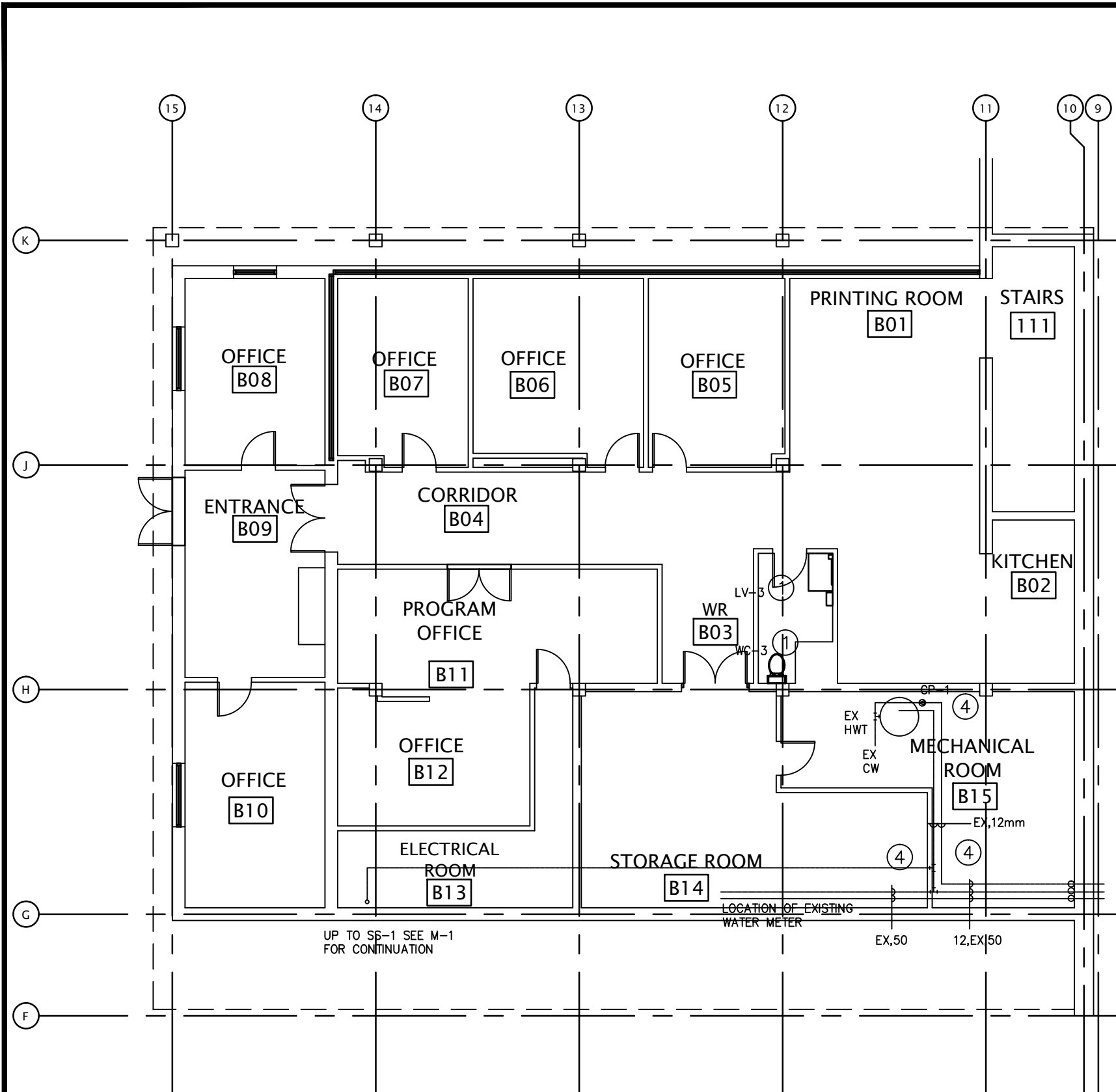
- NOTES:
- 1 CONNECT NEW HW, CW, VENTING, AND SANITARY TO EXISTING SERVICES IN EXISTING WASHROOM AREA.
 - 2 NEW DRINKING FOUNTAIN. TO BE INSTALLED IN SIMILAR LOCATION AS EXISTING. ADJUST THE HEIGHT OF THE SANITARY, ANS WATER CONNECTIONS AS REQUIRED TO ACCOMMODATE THE NEW ADA HC DRINKING FOUNTAIN.
 - 3 SUPPLY AND INSTALL NEW FIXTURE, TYPE AS INDICATED. EXTEND EXISTING HW CW AND DRAIN, AND RECONNECT WITH NEW SCREW DRIVER STOPS.
 - 4 SUPPLY AND INSTALL NEW FD-1 IN LOCATIONS AS INDICATED. CONNECT WATERTIGHT TO NEW MEMBRANE FLOORING, AND CONNECT TO EXISTING SANITARY. SUPPLY AND INSTALL NEW TRAP SEAL PRIMER FROM NEAREST PLUMBING FIXTURE COLD WATER, C/W TRAP SEAL PRIMER.
 - 5 SUPPLY AND INSTALL NEW BF-1, AND S-1 IN LOCATIONS AS INDICATED. EXTEND EXISTING HW, CW AND DRAIN, FROM EXISTING MEN'S WASHROOM, AND CONNECT WITH NEW SCREW DRIVER STOPS.
 - 6 SUPPLY AND INSTALL NEW 50mm COLD WATER LINE. EXISTING HOT WATER LINE IS TO REMAIN. SUPPLY AND INSTALL NEW 19mm HOT WATER RETURN LINE, AND NEW HOT WATER CIRCULATOR CP-1, LOCATED CP-1 AT HOT WATER TANK IN BASEMENT. ALL NEW DOMESTIC WATER LINES ARE TO BE INSULATED.
 - 7 APPROXIMATE LOCATION OF EXISTING UNDERFLOOR SANITARY. CONFIRM EXISTING LOCATION PRIOR TO EXCAVATING THE EXISTING FLOOR.
 - 8 SUPPLY AND INSTALL NEW URINAL, TYPE AS INDICATED. EXTEND EXISTING HW CW AND DRAIN, TO ACCOMMODATE NEW STRAPPED WALL, AND RECONNECT WITH NEW SCREW DRIVER STOPS.
 - 9 SUPPLY AND INSTALL NEW FIXTURE, C/W NEW CW IN EXISTING WALLS AND CEILINGS, TYPE AS INDICATED. EXTEND EXISTING DRAIN IN MENS WASHROOM TO ACCOMDATE THE NEW FLOORING, AND RECONNECT.
 - 10 SUPPLY AND INSTALL NEW FIXTURE, C/W NEW CW IN EXISTING WALLS AND CEILINGS, TYPE AS INDICATED AND RECONNECT.
 - 11 APPROXIMATE LOCATION OF NEW FLOOR DRAIN. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF DRAIN. SUPPLY AND INSTALL TRAP SEAL PRIMER TO NEAREST EXISTING PLUMBING FIXTURE WITH NEW TRAP SEAL PRIMER.
 - 12 ADJUST EXISTING FLOOR CLEANOUT TO BE FLUSH WITH NEW FLOORING.

21MAR/16 project date	WYE-003 project no.	M-3 drawing no.
MJD drawn by	ROD_KHALED project manager	
PLUMBING_UPPER FLOOR_PLAN		
MIDLAND ONTARIO 16160_HIGHWAY_12_EAST WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		
PROFESSIONAL ENGINEER M. J. DWYER 16/03/21 PROVINCE OF ONTARIO		



- ## VENTILATION

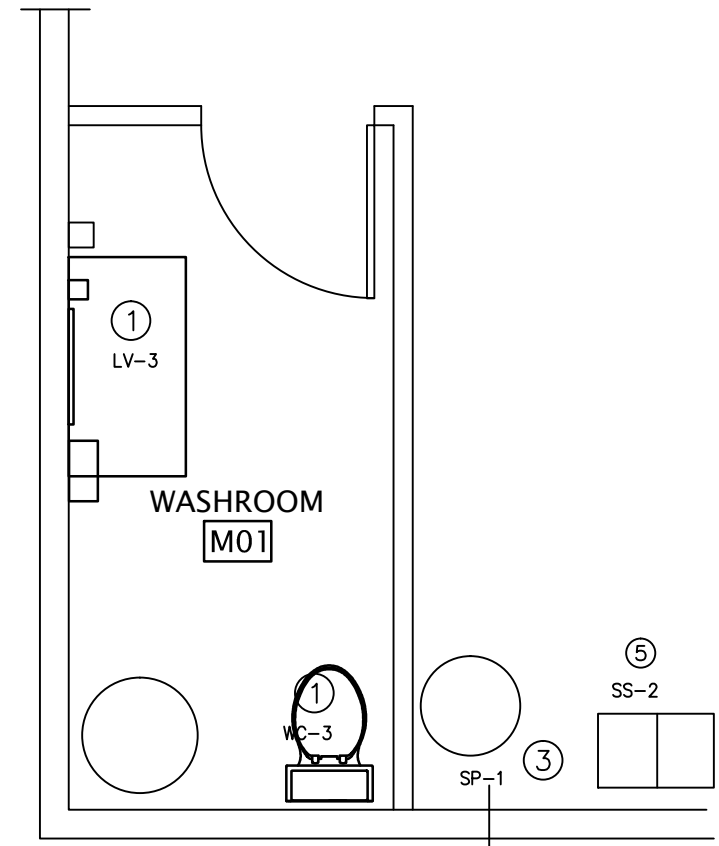




1 BASEMENT DEMOLITION/NEW PLUMBING FLOOR PLAN
M-5 1:100

2 PART DEMO/NEW PLUMBING SHOP FLOOR PLAN
M-5 1:50

- NOTES:
- 1 REMOVE EXISTING FIXTURE. SUPPLY AND INSTALL NEW FIXTURE, TYPE AS INDICATED. EXTEND EXISTING HW CW AND DRAIN, AND RECONNECT WITH NEW SCREW DRIVER STOPS.
 - 2 NOT USED ON THIS PROJECT
 - 3 REMOVE EXISTING SUMP PUMP. SUPPLY AND INSTALL NEW SP-1. AND RECONNECT TO EXISTING POWER, AND FORCEMAIN.
 - 4 SEE DRAWING M-2 FOR REMOVALS. SUPPLY AND INSTALL NEW 50mm COLD WATER, AND 12 mm HOT WATER RETURN LINES, C/W CP-1 IN HOT WATER RETURN LINE.RECONNECT TO ALL EXISTING TAKEOFFS.
 - 5 REMOVE EXISTING DOUBLE LAUNDRY TUB. SUPPLY AND INSTALL NEW STAINLESS STEEL DOUBLE LAUNDRY TUB TYPE SS-2. EXTEND EXISTING HW CW AND DRAIN, AND RECONNECT WITH NEW SCREW DRIVER STOPS.



project title titre du projet	21MAR/16 project date date du projet		WYE-003 project no. no. du projet		M-5 drawing no. dessine no.	
	MJD drawn by dessiné par		conce par conçu par		approved by approuvé par	
drawing title titre du dessin		BASEMENT DEMOLITION NEW PLUMBING FLOOR PLAN		PART/DEMO NEW PLUMBING SHOP FLOOR PLAN		
project title titre du projet		MIDLAND ONTARIO 16160_HIGHWAY_12_EAST		WYE_MARSH_WILDLIFE_CENTRE LIGHTING_RETROFIT_AND WASHROOM_RENOVATION		
Environment and Climate Change Canada Real Property Management Division Technical Services		Environnement et Changement Climatique Canada Division Gestion des Biens Immobilier Services Techniques		Professional Engineer M. J. DWYER 16/03/21 PROVINCE OF ONTARIO		

FAN SCHEDULE								
REF	FUNCTION	FLOW CFM	S.P. IN.W.G.	MANUFACTURER & MODEL NO.	FAN SPEED RPM	FAN MOTOR HP	POWER V-PH-HZ	REMARKS
EF-1	EXHAUST	110	.375	BROAN, NUTONE, PANASONIC			120-1-60	C/W LOCAL DISCONNECT, BACKDRAFT DAMPER. DRYWALL TRIM., MAX 1.5 SONES
EF-2	EXHAUST	300	.375	GREENHECK, GRAINGER, LOREN COOK			120-1-60	C/W LOCAL DISCONNECT, MOTORIZED BACKDRAFT DAMPER. ROOF CURB MOUNTED. MAX 7.0 SONES

DIFFUSER SCHEDULE						
REF	TYPE	SIZE	ACCEPTABLE MANUFACTURES	FLOW PATTERN	ACCESSORIES	REMARKS
R-1	EXHAUST AIR	AS PER EXISTING	E H PRICE, TITUS, HART & COOLEY		VOLUME DAMPER	EGG DRATE, TBAR TRIM, WHITE COLOR, SUPPORT WITH JACK CHAIN INDEPENDENTLY OF TBAR
R-2	EXHAUST AIR	AS PER EXISTING	E H PRICE, TITUS, HART & COOLEY		VOLUME DAMPER	EGG DRATE, TBAR TRIM, WHITE COLOR, SUPPORT WITH JACK CHAIN INDEPENDENTLY OF TBAR
A	SUPPLY AIR	8"X6"	E H PRICE, TITUS, HART & COOLEY	4 WAY	VOLUME DAMPER	DOUBLE DEFLECTION, DRYWALL TRIM, WHITE COLOR, SUPPORT WITH JACK CHAIN INDEPENDENTLY OF DRYWALL

PLUMBING FIXTURE SCHEDULE							
REF	FIXTURE	DRAIN	VENT	WATER		REMARKS	ELECTRIC
				HOT	COLD		
LV-1	LAVATORY	32	32	12	12	(LV-2 ALSO)	
LV-3	LAVATORY	32	32	12	12		
WC-1	WATER CLOSET	75	37	-	25	(WC-2 ALSO)	
WC-3	WATER CLOSET	75	37	-	12		
S-1	SINK	37	32	12	12		
SS-1	SERVICE SINK	75	37	12	12		
FD	FLOOR DRAIN	50	32			75 DRAIN IN SLAB ON GRADE FLOORS	
LT-1	LAUNDRY TUB	37	32	12	12		
DF-1	DRINKING FOUNTAIN	37	32		12		120-1-60
BF-1	BOTTLE FILLING	37	32		12		120-1-60
U-1	URINAL	50	32	-	25		

21MAR/16
project date

WYE-003
project no.

M-6
drawing no.

MJD
drawn by

designed by

approved by

designe par

conc par

approuve par

ROD_KHALED
tender submission


project manager
administrateur de projet

drawing title
titre du dessin

SCHEDULES

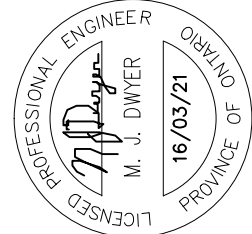
project title
titre du projet

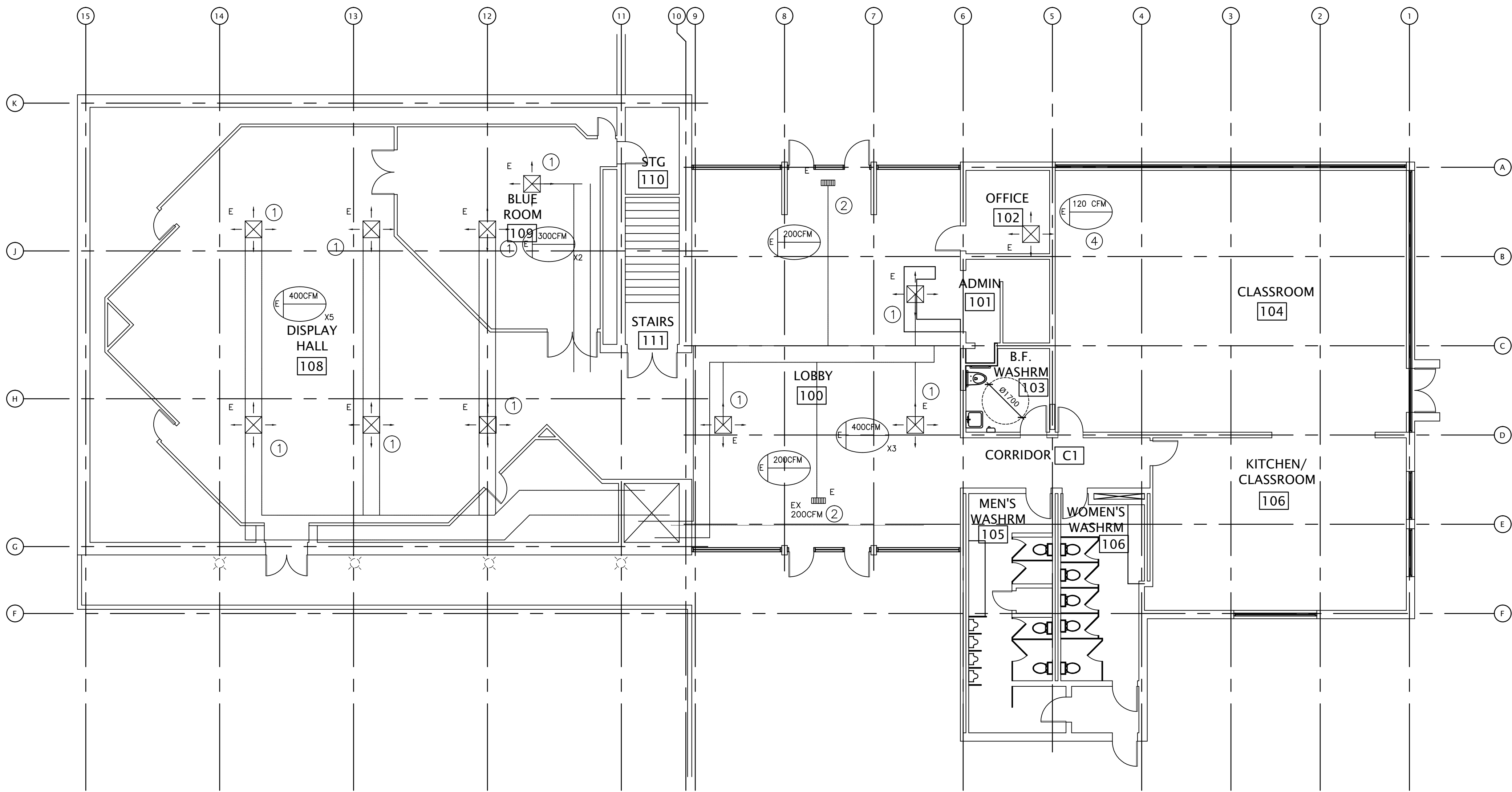
MIDLAND
ONTARIO
16160_HIGHWAY_12_EAST
WYE_MARSH_WILDLIFE_CENTRE
LIGHTING_RETROFIT_AND
WASHROOM_RENOVATION



Environment and Climate
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Services Techniques





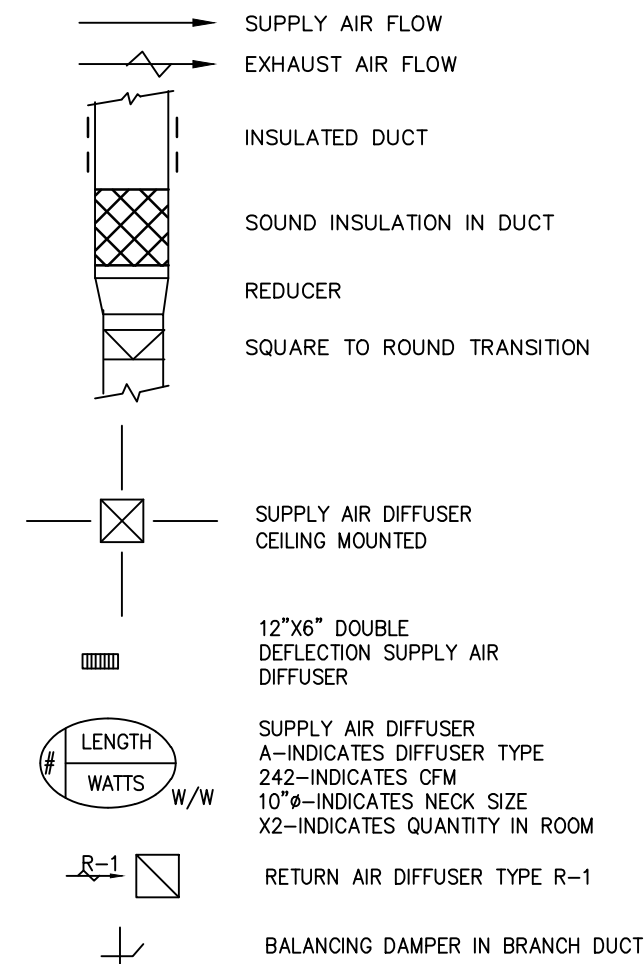
1 MECHANICAL DEMOLITION UPPER FLOOR PLAN
M-1 1:100

NOTES:

- MEASURE EXISTING AIRFLOW. REMOVE EXISTING DIFFUSER AND TRANSITION DUCTWORK. PROVIDE NEW DIFFUSER AND TRANSITION DUCTWORK AS REQUIRED. REBALANCE TO AIRFLOWS AS INDICATED
- MEASURE EXISTING AIRFLOW. REMOVE EXISTING DIFFUSER AND TRANSITION DUCTWORK. PROVIDE NEW DIFFUSER AND TRANSITION DUCTWORK AS REQUIRED. REBALANCE TO AIRFLOWS AS INDICATED.
- NOT USED
- MEASURE EXISTING AIRFLOW. REMOVE EXISTING DIFFUSER, AND ALL ASSOCIATED BRANCH DUCTWORK. SEE DRAWING M-8. REBALANCE TO AIRFLOWS AS INDICATED

DRAWING CODE

VENTILATION



Environment and Climate
Change Canada
Real Property Management Division
Technical Services
Environnement et Changement
Climatique Canada
Division Gestion des Biens Immobilier
Services Techniques

M. DWYER ENGINEERING

(div. of 694802 Ontario Inc.)
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SEAL



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04	ISSUED_FOR_COMMENT_100%	16/04/27
03	ISSUED_FOR_COMMENT_95%	16/03/04
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revision		date

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B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO
LIGHTING_RETROFIT_&
WASHROOM_RENOVATION

drawing title
titre du dessin
MECHANICAL_DEMOLITION
UPPER_FLOOR_PLAN

drawn by
dessiné par
MJD

designed by
conc par
MJD

approved by
approuvé par
MJD

tender
soumission
project manager
administrateur
de projets
ROD_KHALED

project date
date du projet
06/03/2016

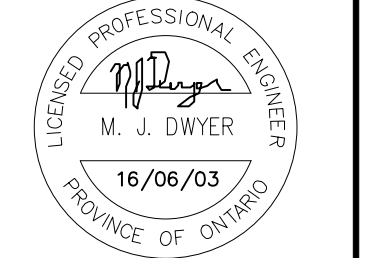
project no.
no. du projet
WYE-003

drawing no.
dessiné no.
M-7

M. DWYER ENGINEERING

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SEAL



05	ISSUED_FOR_TENDER	16/06/03
04	ISSUED_FOR_COMMENT_100%	16/04/27
03	ISSUED_FOR_COMMENT_95%	16/03/04
02	ISSUED_FOR_COMMENT	16/01/25
01	ISSUED_FOR_COMMENT	14/11/12
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and
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B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
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project title
titre du projet
MIDLAND ONTARIO
WYE_MARSH_WILDLIFE_CENTER
16160_HIGHWAY_12_EAST
MIDLAND_ONTARIO

**LIGHTING_RETROFIT_&
WASHROOM_RENOVATION**

drawing title
titre du dessin
**MECHANICAL
UPPER_FLOOR_PLAN**

drawn by
dessiné par
MJD

designed by
conç par
MJD

approved by
approuvé par
MJD

tender
soumission
project manager
administrateur
de projets
ROD_KHALED

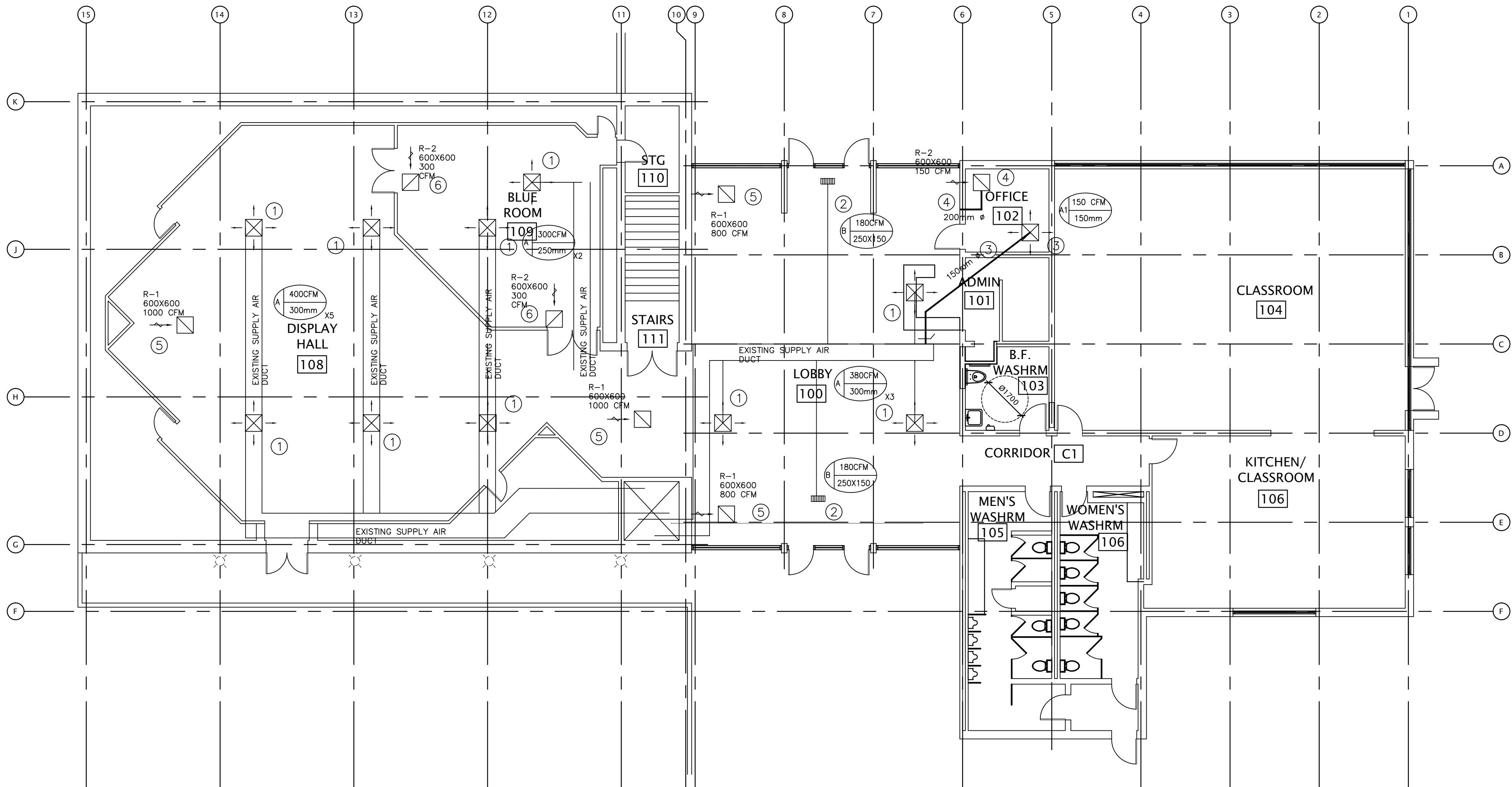
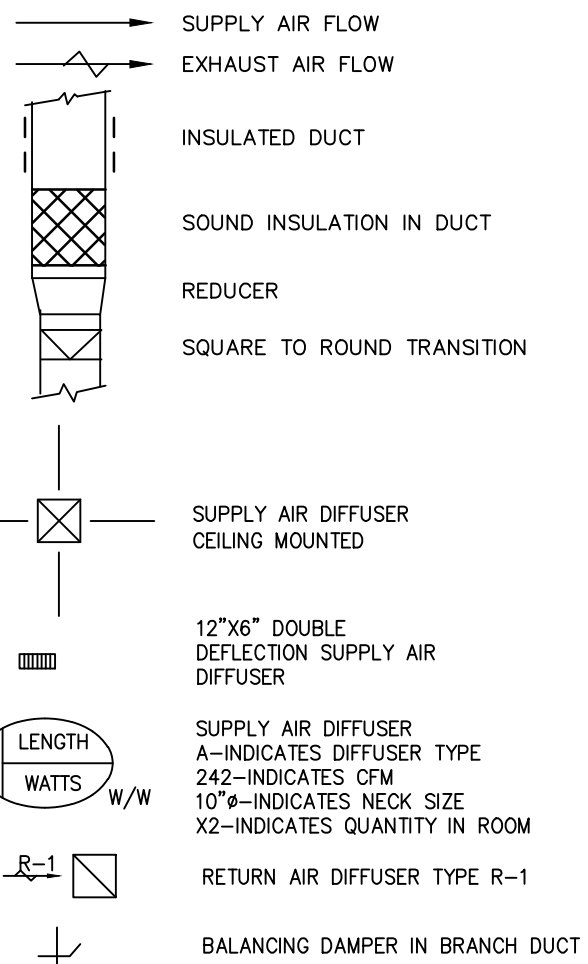
project date
date du projet
06/03/2016

project no.
no. du projet
WYE-003

drawing no.
dessiné no.
M-8

DRAWING CODE

VENTILATION



1 MECHANICAL UPPER FLOOR PLAN
M-8 1:100

NOTES:

- MEASURE EXISTING AIRFLOW. REPLACE EXISTING DIFFUSER WITH NEW TYPE A DIFFUSER. PROVIDE NEW TRANSITION DUCTWORK AS REQUIRED. REBALANCE TO AIRFLOWS AS INDICATED
- MEASURE EXISTING AIRFLOW. REPLACE EXISTING DIFFUSER WITH NEW TYPE B DIFFUSER. PROVIDE NEW TRANSITION DUCTWORK AS REQUIRED. REBALANCE TO AIRFLOWS AS INDICATED.
- SUPPLY AND INSTALL NEW TYPE A DIFFUSER, C/W NEW BRANCH DUCT TO EXISTING MAIN SUPPLY AIR DUCT, C/W BALANCING DAMPER.
- SUPPLY AND INSTALL NEW TYPE R-1 RETURN AIR GRILLE, C/W NEW DUCT THROUGH WALL TO EXISTING LOBBY CEILING SPACE.
- SUPPLY AND INSTALL NEW TYPE R-1 RETURN AIR GRILLE,
- SUPPLY AND INSTALL NEW TYPE R-2 RETURN AIR GRILLE,

DIFFUSER SCHEDULE

REF	TYPE	SIZE	ACCEPTABLE MANUFACTURERS	FLOW PATTERN	ACCESSORIES	REMARKS
A	SUPPLY AIR	24"x24"	E H PRICE TITUS HART & COOLEY	4 WAY	VOLUME DAMPER	SQUARE CONE DIFFUSER, 360 DEGREE PATTERN, STEEL, 4 CONE, FIXED AIR PATTERN, TBAR TRIM, BLACK COLOR, < NC 20, MAX 800 FPM NECK
A1	SUPPLY AIR	24"x24"	E H PRICE TITUS HART & COOLEY	4 WAY	VOLUME DAMPER	SQUARE CONE DIFFUSER, 360 DEGREE PATTERN, STEEL, 4 CONE, FIXED AIR PATTERN, TBAR TRIM, WHITE COLOR, < NC 20, MAX 800 FPM NECK
B	SUPPLY AIR	12"x6"	E H PRICE TITUS HART & COOLEY	4 WAY	VOLUME DAMPER	VELOCITY DOUBLE DEFLECTION, STEEL, 19mm BLADE SPACING, 32mm FLANGE TRIM, BLACK COLOR, < NC 20, FRONT BLADES PARRALEL TO THE LONG DIMENSION
R-1	RETURN AIR	AS INDICATED	E H PRICE TITUS HART & COOLEY			EGG CRATE, TBAR TRIM, BLACK COLOR
R-2	RETURN AIR	AS INDICATED	E H PRICE TITUS HART & COOLEY			EGG CRATE, TBAR TRIM, WHITE COLOR