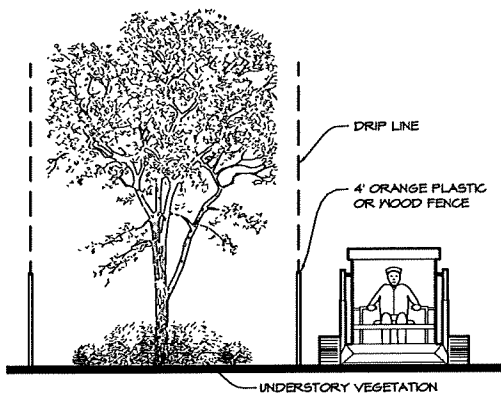


4' HIGH SNOW FENCE TO BE INSTALLED AROUND DRIP LINE OF TREES TO BE SAVED PRIOR TO ANY LAND CLEARING OR CONSTRUCTION.

NO CUTTING, FILLING, OR TRESPASSING SHALL OCCUR INSIDE FENCED AREAS WITHOUT APPROVAL.



**TREE PROTECTION
DETAIL**

1

NTS

TPDET_01



9100 Lapeer Rd. Suite B
Davison, MI 48423
(810) 412-5640
www.h2aarchitects.net

SITE NOTES

1. UTILITY INFORMATION HAS BEEN OBTAINED FROM AVAILABLE RECORDS. NO GUARANTEE IS MADE EITHER TO COMPLETENESS OR ACCURACY.
2. SITE PLAN IS SUBJECTED TO ANY FACTS AND/OR EASEMENTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
3. CONTACT "MISS DIG" AT 1-800-482-7111, PRIOR TO EXCAVATION OR DEMOLITION.
4. AREA OF DISTURBANCE 0.13 ACRES. AN NPDES PERMIT IS NOT REQUIRED.
5. FINISH FLOOR ELEVATION = 100.00' = 833.33'
6. PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING BUILDING.
7. CONTRACTOR SHALL MEET AND MATCH ALL EXISTING PAVING SURFACES WITH FLUSH TRANSITION.
8. REPAIR ANY DISTURBED LANDSCAPING AND LAWN SURFACES DUE TO NEW CONSTRUCTION.
9. PROVIDE TREE PROTECTION FOR EXISTING TREES TO REMAIN
10. HYDROSEED ALL DISTURBED AREA EFFECTED BY THIS CONSTRUCTION

NO.	DESCRIPTION	DATE
6		
5		
4		
3	POST-BID ADDENDUM	01/22/19
2	BIDS & PERMITS	05/06/19
1	OWNER REVIEW	04/30/19

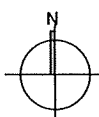
RANGER'S BUILDING
**ROCHESTER HILLS
INNOVATION HILLS PARK**
2800 W. HAMLIN RD.
ROCHESTER HILLS, MI 48309

DRAWING TITLE
**SITE
DEMOLITION PLAN**

PROJECT NO.	19-150
DATE	1/26/2019
DRAWN	BNB
CHECKED	JSH

C100

CAD FILE NO.	C100.dwg
SCALE	1"=10'-0"
SHEET	2 OF 8



1 SITE DEMOLITION PLAN

1" = 10'-0"
NOTE: ADJUST LOCATION AS NECESSARY IN FIELD TO PROTECT TREES NOTED TO REMAIN



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 Davison, MI 48423
 (810) 412-5640
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SITE NOTES

- UTILITY INFORMATION HAS BEEN OBTAINED FROM AVAILABLE RECORDS. NO GUARANTEE IS MADE EITHER TO COMPLETENESS OR ACCURACY.
- SITE PLAN IS SUBJECT TO ANY FACTS AND/OR EASEMENTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
- CONTACT "MISS DIG" AT 1-800-482-1111 PRIOR TO EXCAVATION OR DEMOLITION.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS, AND REQUIREMENTS OF THE STATE OF MICHIGAN "SOIL EROSION AND SEDIMENTATION CONTROL ACT, NO. 347; PUBLIC ACTS OF 1972 AS PART 41 OF ACT 197, PUBLIC ACTS OF 1974." REFER TO SITE PLAN FOR SOIL EROSION CONTROL MEASURES.
- FINISH FLOOR ELEVATION = 100.00' = 833.93'
- PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING BUILDING.
- CONTRACTOR SHALL MEET AND MATCH ALL EXISTING PAVING SURFACES WITH FLUSH TRANSITION.
- REPAIR ANY DISTURBED LANDSCAPING AND LAWN SURFACES DUE TO NEW CONSTRUCTION.
- PROVIDE TREE PROTECTION FOR EXISTING TREES TO REMAIN.
- HYDROSEED ALL DISTURBED AREA AFFECTED BY THIS CONSTRUCTION.
- PREPARE SITE AT ALL AREAS OF CONSTRUCTION, AND EXTENDING 10' BEYOND, BY ROLLING WITH A VIBRATING ROLLER TO CONSOLIDATE SAND PER GEO-TECHNICAL REPORT.

GAS:
 CONSUMERS ENERGY REP.: 248-433-5618
 EMERGENCY: 800-471-5050
 ELECTRIC DTE REP.: 586-471-2224
 EMERGENCY: 800-471-4747

□ SILT FENCE: RE - 2/ C102

NO.	DESCRIPTION	DATE
6		
5		
4		
3	POST-BID ADDENDUM	01/22/19
2	BIDS & PERMITS	05/06/19
1	POST-BID ADDENDUM	04/30/19

RANGER'S BUILDING
ROCHESTER HILLS INNOVATION HILLS PARK
 2800 W. HAMLIN RD.
 ROCHESTER HILLS, MI 48304

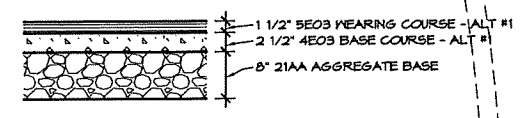
DRAWING TITLE
SITE DEVELOPMENT PLAN

PROJECT NO.	19-150
DATE	1/26/2019
DRAWN	BNB
CHECKED	JSH

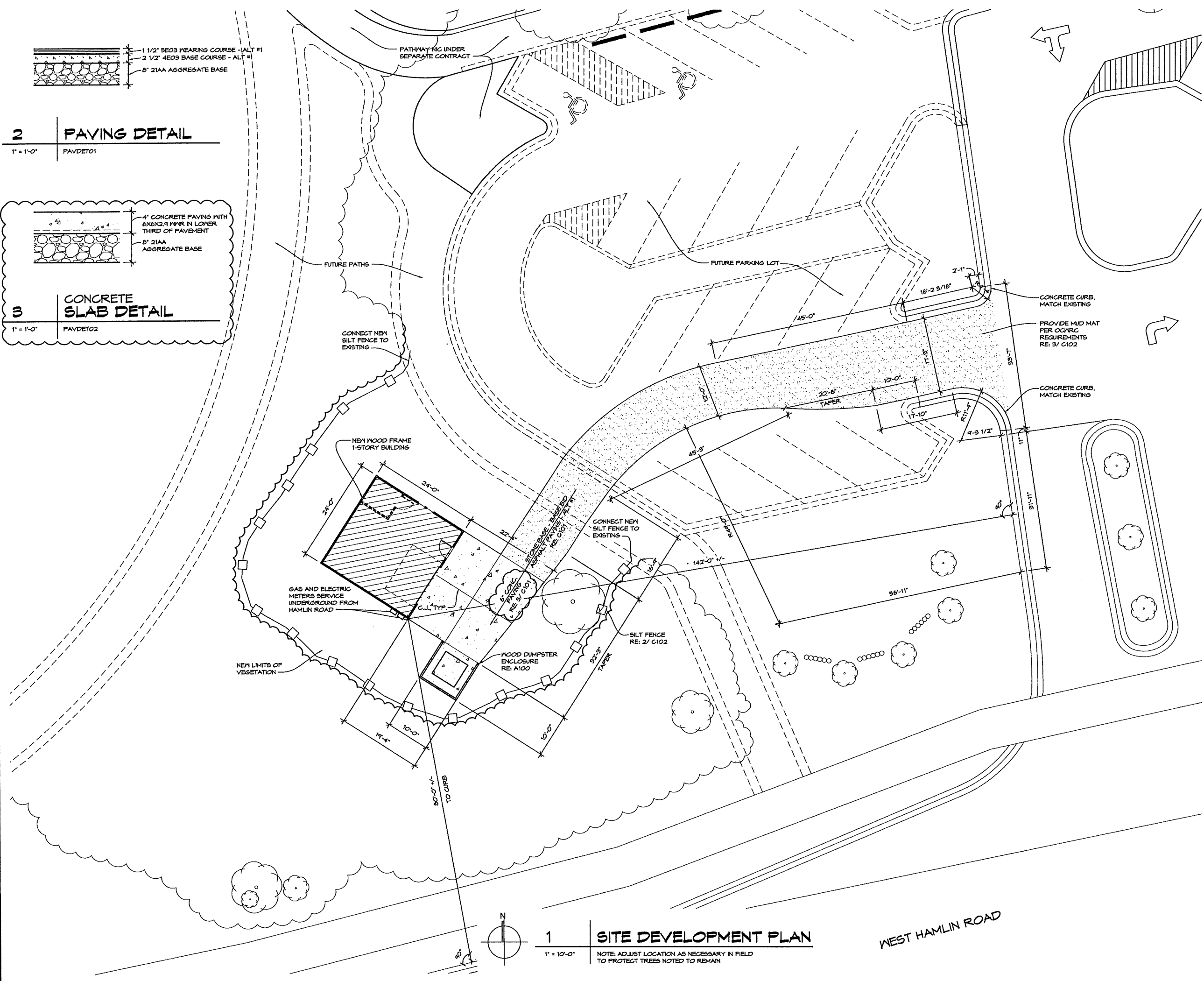
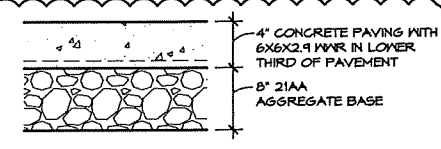
C101

CAD FILE NO.	C101.dwg
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SHEET	3 OF 8

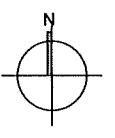
2 PAVING DETAIL
 1" = 1'-0" PAVDET01



3 CONCRETE SLAB DETAIL
 1" = 1'-0" PAVDET02



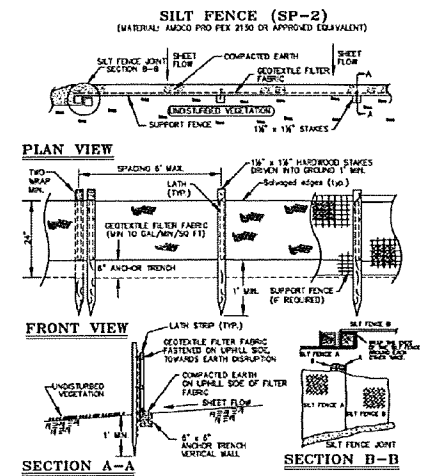
1 SITE DEVELOPMENT PLAN
 1" = 10'-0"



NOTE: ADJUST LOCATION AS NECESSARY IN FIELD TO PROTECT TREES NOTED TO REMAIN

WEST HAMLIN ROAD

Innovation Park Ranger, Garage, C.A.D./C.I.O. dsh



2 SILT FENCE DETAIL
 NTS
 MRC EROSION CONTROL MANUAL - PAGE 88
 WWW.OAKGOV.COM/WATER

NO.	DESCRIPTION	DATE
6		
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4		
3	POST-BID ADDENDUM	01/22/19
2	BIDS & PERMITS	05/06/19
1	OWNER REVIEW	04/30/19

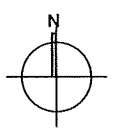
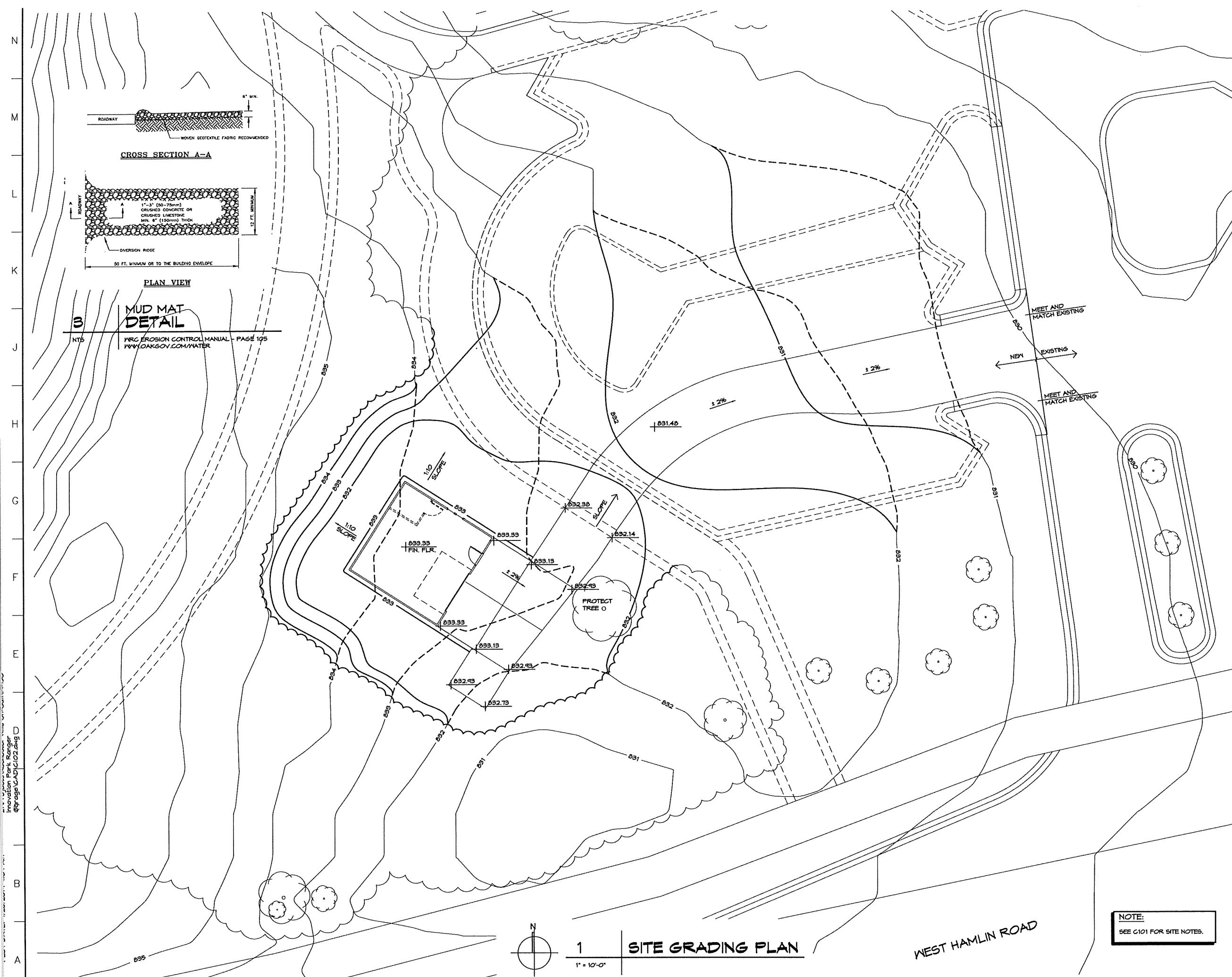
RANGER'S BUILDING
ROCHESTER HILLS INNOVATION HILLS PARK
 2800 W. HAMLIN RD.
 ROCHESTER HILLS, MI 48304

DRAWING TITLE
SITE GRADING PLAN

PROJECT NO.	19-150
DATE	1/26/2019
DRAWN	BNB
CHECKED	JSH

C102

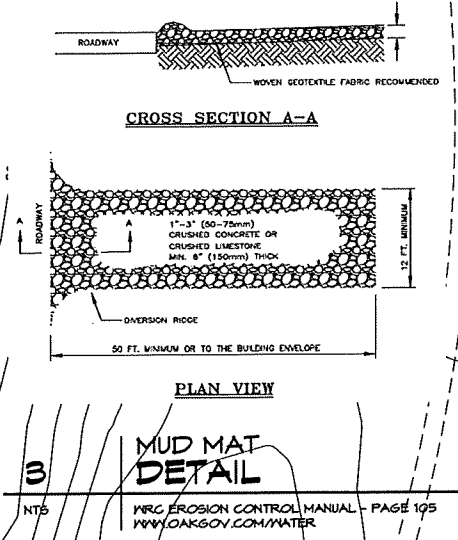
CAD FILE NO.	C102.dwg
SCALE	1"=10'-0"
SHEET	4 OF 8



1 SITE GRADING PLAN
 1"=10'-0"

WEST HAMLIN ROAD

NOTE:
 SEE C101 FOR SITE NOTES.



3 MUD MAT DETAIL
 NTS
 MRC EROSION CONTROL MANUAL - PAGE 105
 WWW.OAKGOV.COM/WATER

SPECIFICATIONS

DIVISION 3 - CONCRETE

MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3,000 PSI FOR FOUNDATIONS AND 4500 PSI FOR FLOOR SLABS. INTERIOR SLABS ON GRADE SHALL BE MINIMUM 4 INCH THICK AND REINFORCED WITH 6 X 6 X 12.4 X 12.4 W/WF WITH MINIMUM EDGE AND END LAPS OF 6 INCHES. PLACE ON A MINIMUM 10 MIL POLYETHYLENE VAPOR BARRIER OVER A MINIMUM 6" SAND BASE COMPACTED TO 95% PROCTOR. SURFACES SCHEDULED TO REMAIN EXPOSED SHALL RECEIVE LIQUID CURING COMPOUND EQUAL TO VOGCON-25 BY H. R. MEADOWS. PROVIDE TROWEL FINISH ON INTERIOR CONCRETE.

PROVIDE MINIMUM CONCRETE COVER FOR REINFORCEMENT. CAST AGAINST EARTH - 3 INCHES OR AS NOTED ON DRAWINGS. EXPOSED TO WEATHER - 2 INCHES OR AS NOTED ON DRAWINGS. NOT EXPOSED TO EARTH OR WEATHER PRIMARY REINFORCEMENT IN BEAMS AND COLUMNS - 1 1/2 INCHES OR AS NOTED ON DRAWINGS. NOT EXPOSED TO EARTH OR WEATHER SECONDARY REINFORCEMENT IN SLABS AND WALLS - 3/4 INCH OR AS NOTED ON DRAWINGS.

PLACE CONCRETE STRUCTURAL MEMBERS IN THEIR FULL DEPTH IN ONE OPERATION.

REPRESENTATIVE CONCRETE TEST CYLINDERS SHALL BE TAKEN EACH DAY OF CONCRETE OPERATIONS. ANY WORK FOUND TO NOT MEET SPECIFICATIONS SHALL BE REMOVED AND REPLACED. TESTING BY OWNER CONTRACTOR TO COORDINATE.

DESIGN, CONSTRUCTION AND TESTING OF CONCRETE AND REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ACI-301, ACI-315 AND ACI-318.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

WELDER WIRE FABRIC SHALL CONFORM TO ASTM A185 (FLAT SHEETS)

CORNERS OF EXPOSED CONCRETE SHALL HAVE 3/4" CHAMFER U.N.O.

FOR EMBEDDED ITEMS REFER TO ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.

ALL INTERIOR SLABS SHALL HAVE A STEEL TONKELED FINISH UNLESS NOTED OTHERWISE.

QA/QC FIELD TESTING AND INSPECTIONS OF CONCRETE MATERIALS AND CONCRETE INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY EMPLOYED BY THE CITY OF ROCHESTER HILLS.

POUR FOOTINGS IN CONTINUOUS POUR ON UNDISTURBED SOIL. DO NOT PLACE CONCRETE ON FROZEN GROUND IN FREEZING CONDITIONS. PLACE IN FULL DEPTH IN ONE OPERATION.

DIVISION 4 - MASONRY

THE REINFORCED CONCRETE MASONRY FOR THIS PROJECT HAS BEEN DESIGNED AND DETAILED IN ACCORDANCE WITH THE ALLOWABLE STRESS DESIGN METHOD.

REINFORCED MASONRY SHALL HAVE MINIMUM COMPRESSIVE STRENGTH, FM, OF 1500 PSI. MASONRY UNITS SHALL BE MEDIUM WEIGHT BLOCK CONFORMING TO ASTM C90, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2100 PSI. MORTAR SHALL CONFORM TO ASTM C201, TYPE S. GROUT SHALL CONFORM TO ASTM C416.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

ALL REINFORCED CELLS, ALL CELLS BELOW GRADE, AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.

WHEN A FOUNDATION DOYEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL DOYELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.

REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.

VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING, NOR 20 FEET. BARS SHALL BE IN PLACE PRIOR TO GROUTING.

VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM GROUT COVER OF 1/2 OF AN INCH TO THE INSIDE FACE OF MASONRY UNIT AND A MINIMUM TOTAL MASONRY COVER NOT LESS THAN TWO INCHES.

PARALLEL ADJACENT VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEAR DISTANCE NOT LESS THAN 1 1/2 BAR DIAMETERS NOR 1 1/2 INCHES.

VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3'X4'.

ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION.

SPliced REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS BASED ON THE MAXIMUM ALLOWABLE STRESS.

DIVISION 5 - METALS

ANCHOR BOLTS SHALL BE MINIMUM 1/2 INCH DIAMETER HEADED, WITH 7 INCHES EMBEDMENT.

DIVISION 6 - WOOD

WOOD FRAMING FOR WALLS AND HEADERS SHALL BE S-P-F No. 1, No. 2 OR BETTER AS FOLLOWS:

Bending Fb = 875 psi
Shear Fv = 155 psi
Mod E = 1,400,000 psi

WOOD IN CONTACT WITH MASONRY, CONCRETE, WEATHER OR GRADE SHALL BE PRESURE TREATED.

WOOD TRUSSES SHALL BE DESIGNED BY THE TRUSS COMPANY. TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER EXPERIENCED IN THE TYPE OF WORK AND LICENSED IN THE STATE OF THE PROJECT. TRUSS COMPANY SHALL RECOMMEND SIZE, TYPE, AND SPACING OF BRACINGS. SHOP DRAWINGS SHALL BEAR THE SEAL OF THE ENGINEER. ANCHOR TRUSSES WITH (HURRICANE) TIES APPROPRIATE FOR THE APPLICATION.

TRUSSES SHALL BE PRE-ENGINEERED AND INSTALLED IN ACCORDANCE WITH BCSI-B1 THRU B11 INCLUDING ALL TEMPORARY AND PERMANENT BRACINGS RECOMMENDED IN BCSI AS A MINIMUM, INCLUDING ADDITIONAL BRACINGS AS INDICATED ON THESE PROJECT DOCUMENTS. ALL INTERNAL TEMPORARY NON-INTERFERING BRACINGS TO REMAIN AS PERMANENT. TRUSS FABRICATION SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE NBC.

ALL CLIPS AND HANGERS SHALL BE INSTALLED WITH NAILS OF NUMBER AND SIZE AS INDICATED IN MANUFACTURER'S CATALOGS UNLESS NOTED OTHERWISE.

THE ERECTOR SHALL PROVIDE TEMPORARY BRIDGINGS, PERMANENT AND TEMPORARY BRACINGS, AND GUYS TO STABILIZE TRUSSES UNTIL PERMANENT BRACING IS INSTALLED AND SHEATHING OR DECKING IS IN PLACE AND FASTENED.

TEMPORARY/ PERMANENT BRACING PER BCSI IS NOT SHOWN ON THESE PLANS BUT IS REQUIRED, SEE BCSI-B1-B11.

TRUSSES SHALL BE DESIGNED, MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS, GUIDES AND RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND ANSI / AIA NDS FOR WOOD CONSTRUCTION.

TRUSS SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO GENERAL CONTRACTOR, ARCHITECT AND ENGINEER OF RECORD PRIOR TO FABRICATION.

ALL TRUSSES SHALL HAVE (2) H2.5A TIE DOWNS (1) EACH SIDE OF BOTTOM CHORD TO BEAM SUPPORTS MIN U.N.O. OR SPECIFIED BY TRUSS SUPPLIER.

WOOD CONSTRUCTION PANELS FOR ROOFS SHALL BE RATED APA-PRP-108 SHEATHING WITH EXTERIOR EXPOSURE CLASS. SPAN RATINGS 32/16, 5/8 INCH THICK.

WOOD CONSTRUCTION PANELS FOR WALLS SHALL BE: APA-PRP-108 RATED SHEATHING WITH EXTERIOR EXPOSURE CLASS. SPAN RATINGS 24/0, 3/16 INCH THICK.

CONTRACTOR SHALL PROVIDE BLOCKING AS NEEDED FOR ALL ANCHORAGE OF CONSTRUCTION AND MOUNTING OF EQUIPMENT, FIXTURE, AND ACCESSORIES.

SIDING SHALL BE STRAND PANEL SIDING, CHANNEL GROOVE 8" O.C., 5/8 THICK X 4' X 8', SHIPLAP EDGE, EMBOSSED ROUGH SAWY CEDAR TEXTURE. EQUAL TO LPSHARTSIDE, ACRYLIC PRIMED FOR PAINTING.

CORNER TRIM SHALL BE 1 1/4 X 4 TEXTURED ENGINEERED WOOD OUTSIDE CORNER TRIM, EQUAL TO LPSHARTSIDE TRIM, ACRYLIC PRIMED FOR PAINTING.

TRIM AROUND DOOR, WINDOW, TOP AND BOTTOM OF WALL TRIM SHALL BE 1 X 4 STRAND TRIM, EQUAL TO LPSHARTSIDE SERIES 190 TRIM, ACRYLIC PRIMED FOR PAINTING.

SPECIFICATIONS

TRIM IN CONTACT WITH MASONRY OR GRADE SHALL BE FLYASH 1 X 6 AS MANUFACTURED BY BORAL OR EQUAL, ACRYLIC PRIMED FOR PAINTING.

ROOF SHEATHING N-CLIPS SHALL BE 20 GAUGE GALVANIZED STEEL, SIZE PER PANEL THICKNESS, AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL. INSTALL AS RECOMMENDED BY MANUFACTURER.

TRUSS TIE DOWN HURRICANE CLIPS SHALL BE 18 GAUGE GALVANIZED STEEL AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL. INSTALL AS RECOMMENDED BY MANUFACTURER.

FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE NOTED, SIZE AND TYPE TO SUIT CONDITION. PROVIDE STAINLESS STEEL OR ZINC FASTENERS WHERE APPROPRIATE FOR NON-STAINING CHARACTERISTICS. FASTENERS SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE STANDARDS, CODES, AND FEDERAL STANDARDS. PROVIDE HOLD-DOWN CLIPS FOR WOOD ROOF SHEATHING. ROOF SHEATHING SHALL BE ATTACHED TO TRUSSES WITH 1 1/2" PENETRATION WITH 8D COMMON (MIN) AT 6" O.C. AT SUPPORTED EDGES AND 12" O.C. IN FIELD (MIN) U.N.O.

ALL WOOD FRAMING, DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

ALL EXPOSED STEEL SHAPES, PLATES AND BOLTS SHALL BE GALVANIZED.

ALL FASTENERS AND CONNECTORS USED WITH TREATED WOOD SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.

ALL WOOD TO WOOD CONNECTIONS SHALL USE "COMMON" NAILS U.N.O. ON PROJECT DRAWINGS OR BUILDING SUPPLIER DOCUMENTS SIMPSON CONNECTORS SHALL USE NAILS OR SCREWS SPECIFIED BY SIMPSON AND ALL CONNECTOR HOLES SHALL BE FILLED.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

RIGID INSULATION SHALL BE PROVIDED AT THE PERIMETER OF THE FOUNDATION WALL, 2'-0" DOWN AND 2'-0" INWARD, MINIMUM THICKNESS 2 INCHES. RIGID INSULATION SHALL BE EXTRUDED POLYSTYRENE EQUAL TO R 5/INCH.

SHEET METAL FLASHING AND TRIM SHALL BE PRE-FINISHED ALUMINUM OR PRE-FINISHED GALVANIZED STEEL. GAUGE SHALL BE SUFFICIENT TO RESIST WIND LOADS AND OIL CANNING.

ASPHALT SHINGLES SHALL BE LAMINATED STRIP, MULTI-PLY OVERLAY CONSTRUCTION, GLASS-FIBER REINFORCED, MINERAL-GRAIN SURFACED, SELF-BEATING, EQUAL TO OWENS CORNING TRUE DEFINITION DURATION, LIMITED LIFETIME WARRANTY ARCHITECTURAL SHINGLES. COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLOR. UNDERLAYMENT SHALL BE TYPE 1, NO. 15 FOR GENERAL AREAS. UNDERLAYMENT ICE AND WATER SHIELD SHALL BE SELF-ADHERING SHEET POLYETHYLENE FACED, MIN 40 MIL THICK, SLIP RESISTANT, POLYETHYLENE-FILM-REINFORCED TOP SURFACE LAMINATED TO SBS-MODIFIED ASPHALT ADHESIVE WITH QUICK RELEASE BACKING; COLD APPLIED, EQUAL TO CERTAIN TIED WATERGUARD. USE FOR AREA FROM EAVE UP SLOPE TO 2'-0" BEYOND INTERNAL FACE OF WALL AS ICE BARRIER.

FIBERGLASS BATT INSULATION SHALL BE PROVIDED AS INDICATED ON DRAWINGS. INSULATION SHALL BE CLASS A, EQUAL, WITH KRAFT FACING FOR TYPES III AND V CONSTRUCTION, AND FOL FACING FOR TYPES I AND II CONSTRUCTION. R VALUE AS INDICATED ON DRAWINGS. PRODUCTS SUCH AS CELLULOSE BY NJ-WOOL OR CLOSED CELL FOAM BY KYNENE ARE ACCEPTABLE ALTERNATIVES. INSULATION IN ATTIC BY G.C. INSULATION IN WALLS BY OWNER.

PROVIDE AIR AND WEATHER MEMBRANE BARRIER EQUAL TO TYVEK COMMERCIAL WRAP ON EXTERIOR FACE OF WALL SHEATHING TO BE COVERED BY SIDING. OVERLAP MINIMUM 12 INCHES AND ANCHOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLUID APPLIED AIR BARRIER EQUAL TO 'AIR-SHIELD LHM' ON EXTERIOR FACE OF SHEATHING OR MASONRY SUBSTRATE IN CAVITY WALL CONSTRUCTION.

SHEET METAL FLASHING AND TRIM SHALL BE PRE-FINISHED ALUMINUM OR PRE-FINISHED GALVANIZED STEEL AS INDICATED ON THE DRAWINGS.

STEEL FASCIAS GAUGE AS FOLLOWS: UP TO 6 INCH HIGH - 25 GAUGE
ALUMINUM FASCIAS AS FOLLOWS: UP TO 6 INCHES HIGH - .040 INCH THICK
COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLORS.

PRE-FINISHED ALUMINUM SOFFIT SHALL BE 12 INCH WIDE VENTILATING TYPE PANELS, .014 INCH THICK, PROVIDE WITH ACCESSORIES FOR COMPLETE INSTALLATION, VENTILATION NET FREE AREA AS NOTED ON DRAWINGS, PRODUCTS EQUAL TO SILL EVEN ARE ACCEPTABLE. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS.

DIVISION 8 - DOORS AND WINDOWS

SERVICE DOORS SHALL BE 24 GAUGE COMMERCIAL GRADE STEEL DOORS, SOLID FOAM CORE, APPROPRIATE FOR OUTDOOR LOCATIONS, FLUSH FACE, GALVANIZED WITH BAKED ON ENAMEL FINISH. FRAMES SHALL BE 24 GAUGE STEEL OR ALUMINUM. DOOR AND FRAME SHALL BE PRE-HUNG. PROVIDE DRIP CAP, J-TRIM AND HEM TRIM FROM THE METAL SIDING MANUFACTURER TO FINISH OPENINGS. COLORS SHALL BE SELECTED FROM MANUFACTURER'S STANDARD FINISHES AND COLORS.

SERVICE DOOR HARDWARE SHALL BE COMMERCIAL GRADE, PROVIDE COMPLETE SYSTEM. EXTERIOR DOORS SHALL HAVE:

MEDIUM DUTY COMMERCIAL HINGES, (3) FIVE KNUCKLE BALL BEARING TYPE. SELECT, HASAR, STANLEY OR EQUAL.
LEVER/LOCKSETS WITH INTERCHANGEABLE CORE. EQUAL TO SCHLAGE NDSORDRHO26
LOW PROFILE ALUMINUM THRESHOLDS, SWEEPS AND FELT WEATHER STRIPPINGS. NATIONAL GUARD OR EQUAL.

OVERHEAD GARAGE DOOR SHALL BE COMMERCIAL GRADE, INSULATED DOOR, 24 GAUGE METAL INTERIOR AND EXTERIOR SHEET METAL WITH 2" FOAM CORE (R-8) EQUAL TO MODEL CFR 68 AS MANUFACTURED BY IDEAL DOOR. TRACK SHALL BE MIN 2" STANDARD LIFT TRACK, 12" RADIUS, BRACKET MOUNTS AND TUBULAR TORSION SPRINGS. PROVIDE SLIDE MOUNT LOCKS ON EACH SIDE. 10 YEAR WARRANTY. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS.

WINDOWS SHALL BE VINYL FIXED WITH INSULATED GLASS EQUAL TO JELDEN 'BEST SERIES' WITH LOW E GLASS. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS.

DIVISION 9 - FINISHES

GYPSUM BOARD SHALL BE 1/2 INCH THICK, TAPERED EDGE, ASTM C 1396/C 1396M.

PROVIDE JOINT FILLERS AND SEALANTS APPROPRIATE FOR USE AND LOCATION, AS MANUFACTURED BY BASF, FEGORA OR EQUAL.

PAINT SHALL BE EQUAL TO SHERVIN WILLIAMS COMMERCIAL GRADE LOW VOC PAINTS UNLESS NOTED OTHERWISE. (3) COATS. PRIMER WITH (2) FINISH COATS.

INTERIOR CEILING: LATEX PRIMER, EQUAL TO SHERVIN WILLIAMS PREPRITE PROBLOCK, PRIMER/SEALER, B5 SERIES TOP COATS, ACRYLIC EQUAL TO SHERVIN WILLIAMS SOLO, A14 SERIES, FLAT.

EXTERIOR WOOD: ACRYLIC COATING EQUAL TO DURACON.

DIVISION 91 - SITE

PROVIDE SOIL EROSION MEASURES TO COMPLY WITH COUNTY STANDARDS INCLUDING BUT NOT LIMITED TO SILT FENCE. STRIP BUILDING SITE WITHIN AREA OF NEW CONSTRUCTION. STOCKPILE TOPSOIL FOR REUSE. PROTECT ALL ELEMENTS NOTED TO REMAIN.

CLEAN FILL REMOVED FOR CONSTRUCTION MAY BE STOCKPILED AND REMAIN ON SITE FOR THE OWNERS USE. ALL DEMOLISHED PAVING MATERIALS SHALL BE REMOVED PROMPTLY.

EXCAVATE AS REQUIRED ALLOWING SUFFICIENT SPACE FOR CONSTRUCTION MEASURES AND UTILITIES. SUBGRADE FOOTINGS SHALL BE LEVEL AND FREE OF LOOSE MATERIAL OR WATER.

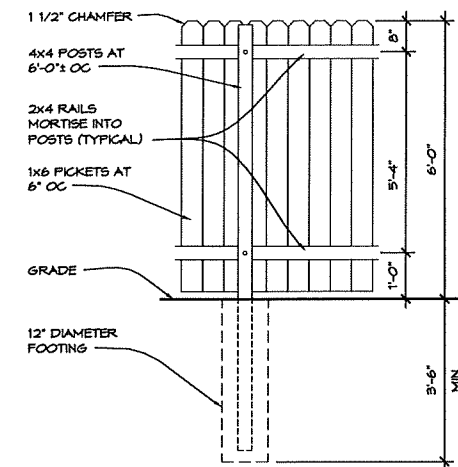
FILL MATERIALS SHOULD BE OF TYPE APPROPRIATE FOR USE AND LOCATION. COMPACT MATERIALS IN LIFTS NOT MORE THAN 12 INCHES TO A MINIMUM OF 95% PROCTOR.

PORTLAND CEMENT CONCRETE PAVING SHALL BE MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS. REINFORCING SHALL BE 6 X 6 X 12.4 X 12.4 W/WF WITH MINIMUM EDGE AND END LAPS OF 6 INCHES. AIR CONTENT SHALL BE 5 - 8%, SLUMP SHALL NOT EXCEED 3 INCHES. PROVIDE BROOM FINISH ON EXTERIOR SLABS.

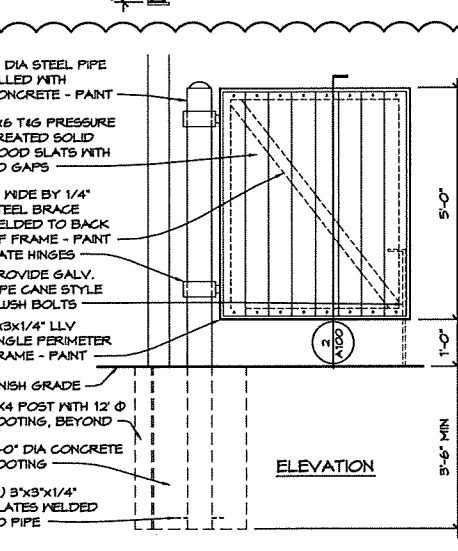
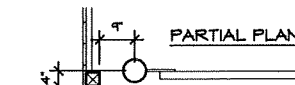
PROVIDE MINIMUM 3 INCHES OF TOPSOIL FOR AREAS SCHEDULED TO RECEIVE TURF. PROVIDE SOD OR HYDROSEED CONSISTING OF A MIXTURE OF ANNUAL AND PERENNIAL SEED. CONTRACTOR SHALL WATER THE TURF AREA UNTIL TURF IS ESTABLISHED BUT NOT LESS THAN 30 DAYS.

RESTORE AND REPAIR ANY AREAS DAMAGED DURING CONSTRUCTION. PROTECT ALL AREAS ADJACENT TO CONSTRUCTION.

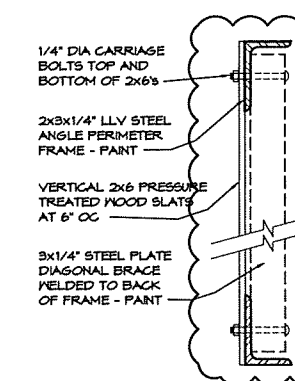
ALL LAWN AREAS SHALL BE WATERED, FERTILIZED, AND TRIMMED, MOVED AND GENERALLY MAINTAINED BY THE CONTRACTOR UNTIL SUBSTANTIAL COMPLETION. OR UNTIL TURF IS FULLY ESTABLISHED. LAWN SHALL BE MOVED AT 2 1/2 - 3' HEIGHT. FIRST MOWING SHALL BE BY CONTRACTOR.



4 TRASH ENCLOSURE FENCING DETAIL
1/2" = 1'-0" DMPENCGATE04



3 TRASH ENCLOSURE GATE DETAIL
1/2" = 1'-0" DMPENCGATE03

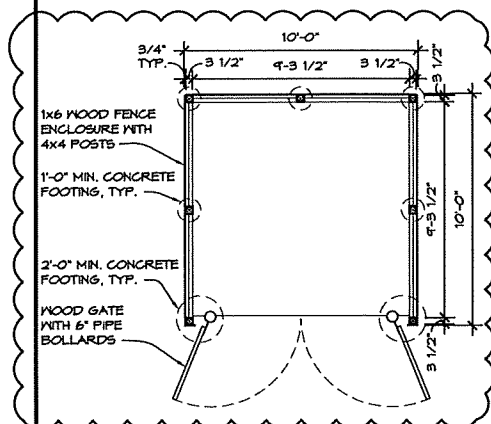


2 GATE SECTION
3\"/>

9100 Lapeer Rd. Suite B
Davison, MI 48423
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SPECIAL INSPECTION SCHEDULE

1. NO SPECIAL INSPECTIONS REQUIRED PER MICHIGAN BUILDING CODE SECTION 1104, REFER TO SPECIFICATIONS FOR QUALITY CONTROL INSPECTIONS AND TESTING.



1 DUMPSTER FENCE
1/4\"/>

NO.	DESCRIPTION	DATE
6		
5		
4		
3	POST-BID ADDENDUM	01/22/19
2	BIDS & PERMITS	05/06/19
1	OWNER REVIEW	04/30/19

RANGER'S BUILDING
ROCHESTER HILLS INNOVATION HILLS PARK
2800 W. HAMLIN RD.
ROCHESTER HILLS, MI 48309

SPECIFICATIONS AND NOTES

PROJECT NO.	14-150
DATE	1/26/2019
DRAWN	BNB
CHECKED	JSH

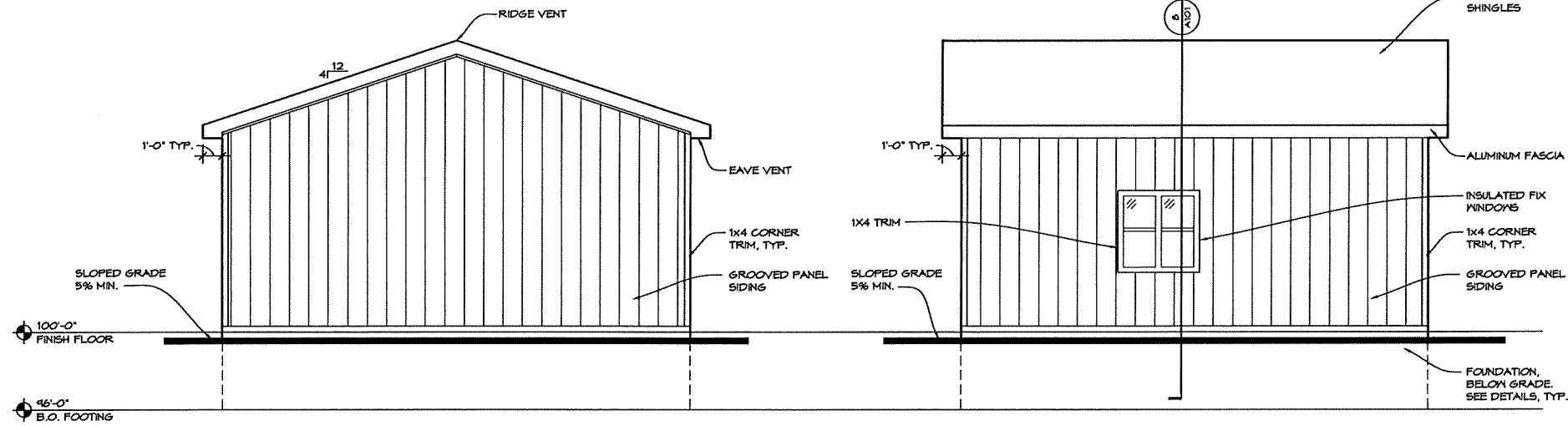
A100

CAD FILE NO.	A100.dwg
SCALE	1/8" = 1'-0"
SHEET	5 OF 8

ATTIC VENTILATION CALCULATION

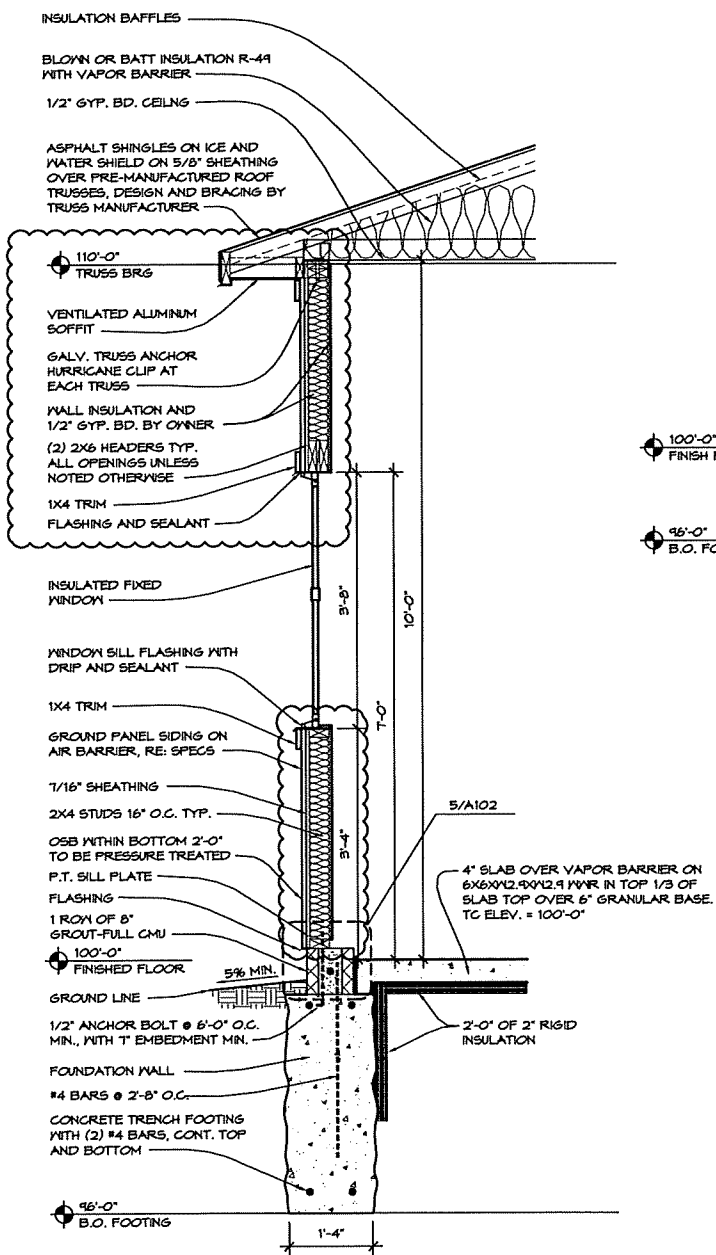
26' X 26' = 676 SF
 1/300 = 2.25 SF = 324.5 SI REQUIRED
 50%HI 50% LOH
 RIDGE VENT = 12.5 SI/LF X 26 LF = 325 SI

EAVE VENT = 6.5 SI/LDF
 6.6 SI/LDF X 52 LF = 338

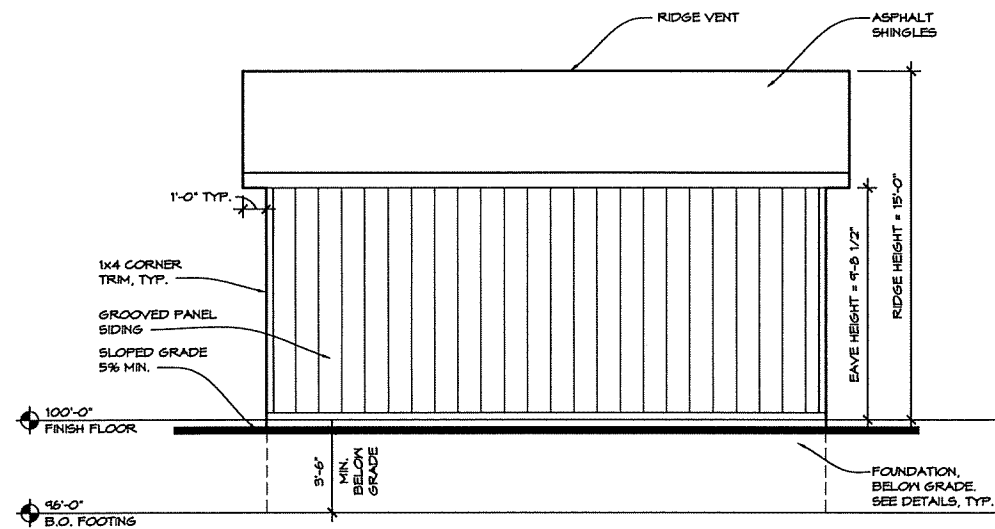


6 WEST EXTERIOR BUILDING ELEVATION
 1/4" = 1'-0"

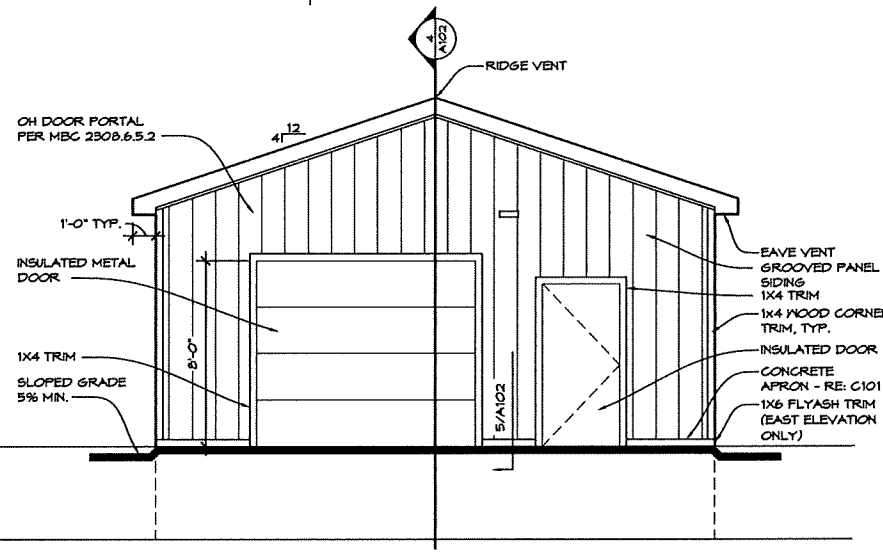
7 NORTH EXTERIOR BUILDING ELEVATION
 1/4" = 1'-0"



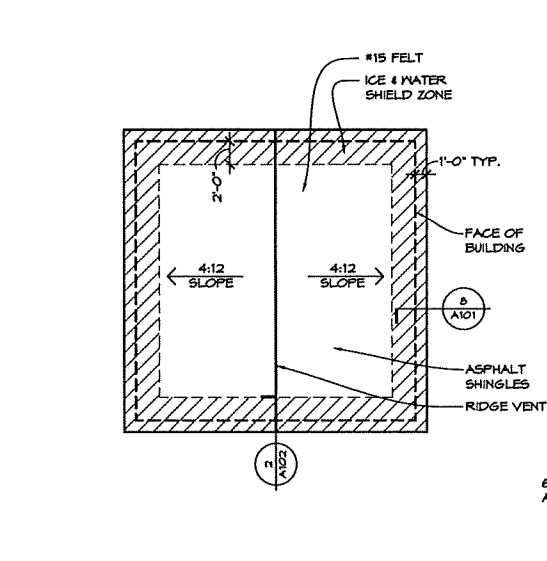
8 WALL SECTION
 3/4" = 1'-0" WSECO1



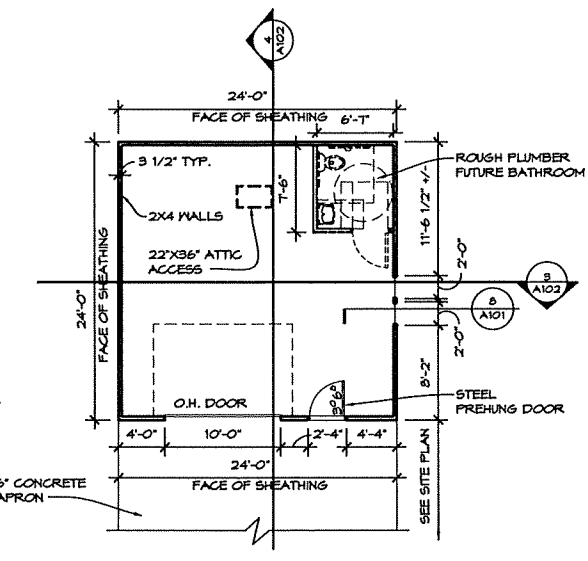
5 SOUTH EXTERIOR BUILDING ELEVATION
 1/4" = 1'-0"



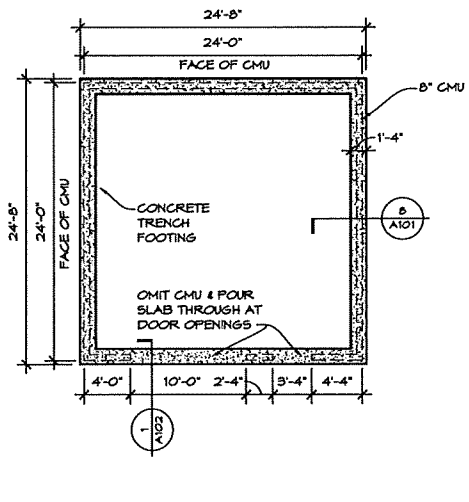
4 EAST EXTERIOR BUILDING ELEVATION
 1/4" = 1'-0"



3 ROOF PLAN
 1/8" = 1'-0"



2 FLOOR PLAN
 1/8" = 1'-0"



1 FOUNDATION PLAN
 1/8" = 1'-0"



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GENERAL NOTES

- NO SPECIAL INSPECTIONS REQUIRED PER MICHIGAN BUILDING CODE SECTION 1104, REFER TO SPECIFICATIONS FOR QUALITY CONTROL INSPECTIONS
- FINISH FLOOR ELEVATION 100'-0" = 893.93
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO 95% MODIFIED PROCTOR, ASSUMED BEARING CAPACITY 1500 PSF. SOIL CLASSIFICATION PER MIBC TABLE 1806.2 IS 4.
- ALL EXTERIOR FOOTINGS TO HAVE BOTTOM OF FOOTING AT 46'-0" UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED
- ALL SLABS ON GRADE SHALL BE PLACED UPON VAPOR BARRIER ON SAND FILL COMPACTED TO 95% MODIFIED PROCTOR AND REINFORCED WITH WOVEN WIRE FABRIC.
- COORDINATE ALL WORK WITH MECHANICAL AND ELECTRICAL DRAWINGS AND TRADES. VERIFY EXACT SIZE AND LOCATION OF ALL COMPONENTS THAT INTERFERE WITH WALLS, FLOORS AND ROOFS.
- ALL STUDS ARE 2X4 WOOD
- ALL EXTERIOR WOOD TO BE PAINTED
- TOP OF FOUNDATION WALLS TO STOP 6" BELOW FINISH FLOOR AT ALL DOOR OPENINGS.
- PROVIDE ATTIC ACCESS PANEL OF 1/2" WOOD PANEL SUPPORTED BY WOOD TRIMS
- ALL REINFORCING BARS, UNLESS NOTED OTHERWISE, SHALL BE CONTINUOUS, RUN CONTINUALLY AROUND CORNERS, BE LAPPED AT SPLICES AND BE HOOKED AT DISCONTINUOUS ENDS.
- PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS IN CONCRETE SLABS AT MINIMUM 12'-0" OR AS SHOWN ON DRAWING, FOR ALL EXTERIOR CONCRETE SLABS.

FINISHES

INTERIOR CEILING & WALL FINISH REQUIREMENTS
 GROUP B; ROOMS & ENCLOSED SPACES CLASS 2

NO.	DESCRIPTION	DATE
6		
5		
4		
3	POST-BID ADDENDUM	01/22/19
2	BIDS & PERMITS	05/06/19
1	OWNER REVIEW	04/30/19

RANGER'S BUILDING
ROCHESTER HILLS INNOVATION HILLS PARK
 2800 W. HAMLIN RD.
 ROCHESTER HILLS, MI 48309

DRAWING TITLE
FLOOR PLANS, ELEVATIONS, & WALL SECTION

PROJECT NO.	19-150
DATE	1/26/2019
DRAWN	BNB
CHECKED	JSH

A101

CAD FILE NO.	A101.dwg
SCALE	1/8" = 1'-0"
SHEET	6 OF 8

GENERAL NOTES

- NO SPECIAL INSPECTIONS REQUIRED PER MICHIGAN BUILDING CODE SECTION 110.4. REFER TO SPECIFICATIONS FOR QUALITY CONTROL INSPECTIONS
- FINISH FLOOR ELEVATION 100'-0" = 899.93
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO 95% MODIFIED PROCTOR. ASSUMED BEARING CAPACITY 1500 PSF. SOIL CLASSIFICATION PER MGC TABLE 1806.2 IS 4.
- ALL EXTERIOR FOOTINGS TO HAVE BOTTOM OF FOOTING AT 46'-0" UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED
- ALL SLABS ON GRADE SHALL BE PLACED UPON VAPOR BARRIER ON SAND FILL COMPACTED TO 95% MODIFIED PROCTOR AND REINFORCED WITH WOVEN WIRE FABRIC.
- COORDINATE ALL WORK WITH MECHANICAL AND ELECTRICAL DRAWINGS AND TRADES. VERIFY EXACT SIZE AND LOCATION OF ALL COMPONENTS THAT INTERFERE WITH WALLS, FLOORS AND ROOFS.
- ALL STUDS ARE 2X4 WOOD
- ALL EXTERIOR WOOD TO BE PAINTED
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- ALL REINFORCING BARS, UNLESS NOTED OTHERWISE, SHALL BE CONTINUOUS, RUN CONTINUALLY AROUND CORNERS, BE LAPPED AT SPLICES AND BE HOOKED AT DISCONTINUOUS ENDS.
- PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS IN CONCRETE SLABS AT MINIMUM 12'-0" OR AS SHOWN ON DRAWING; FOR ALL EXTERIOR CONCRETE SLABS.

FINISHES

INTERIOR CEILING & WALL FINISH REQUIREMENTS

GROUP B: ROOMS & ENCLOSED SPACES CLASS C

NO.	DESCRIPTION	DATE
6		
5		
4		
3	POST-BID ADDENDUM	01/22/19
2	BIDS & PERMITS	05/06/19
1	OWNER REVIEW	04/30/19

RANGER'S BUILDING
ROCHESTER HILLS INNOVATION HILLS PARK
 2800 W. HAMLIN RD.
 ROCHESTER HILLS, MI 48309

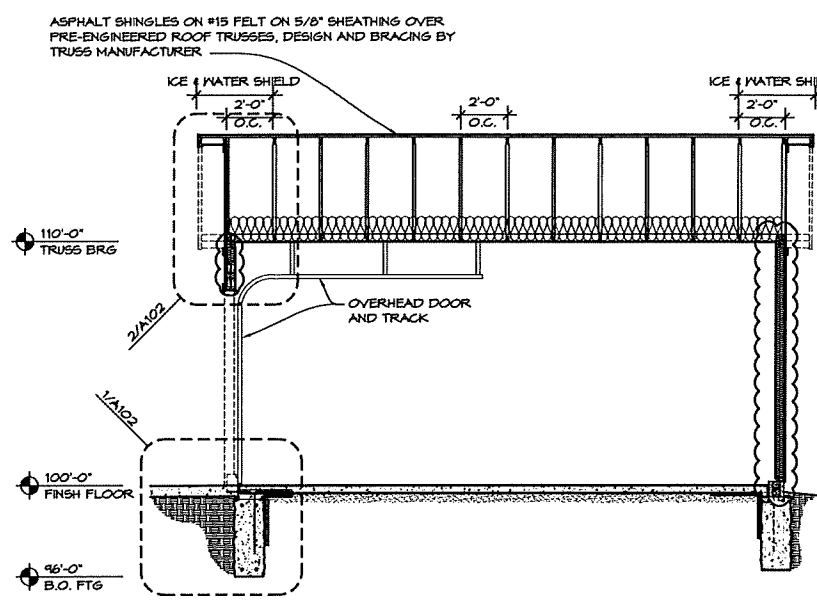
DRAWING TITLE

BUILDING SECTIONS, DETAILS, & SCHEDULES

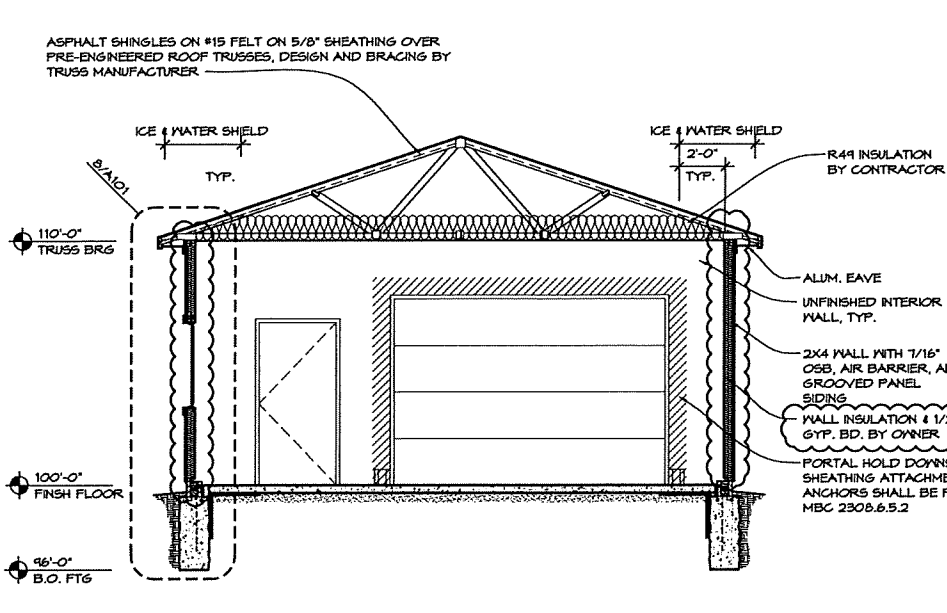
PROJECT NO.	19-150
DATE	1/26/2019
DRAWN	BNB
CHECKED	JSH

A102

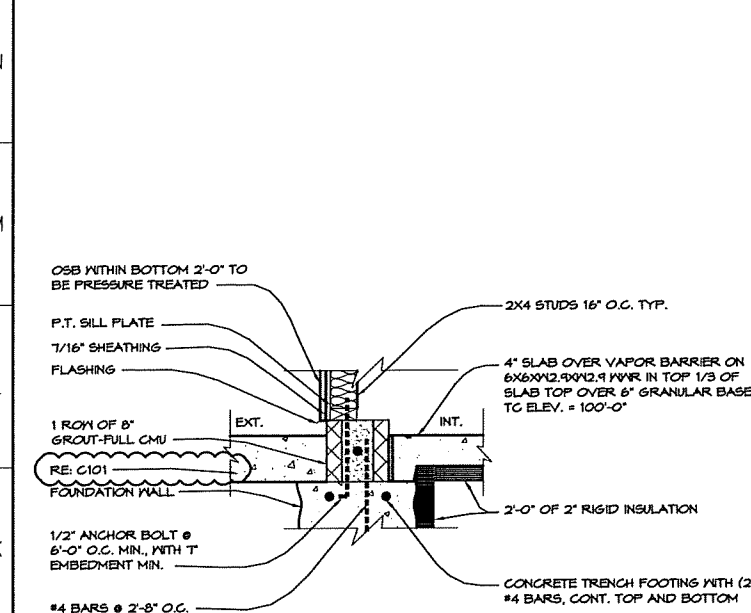
CAD FILE NO.	A102.dwg
SCALE	1/8" = 1'-0"
SHEET	7 OF 8



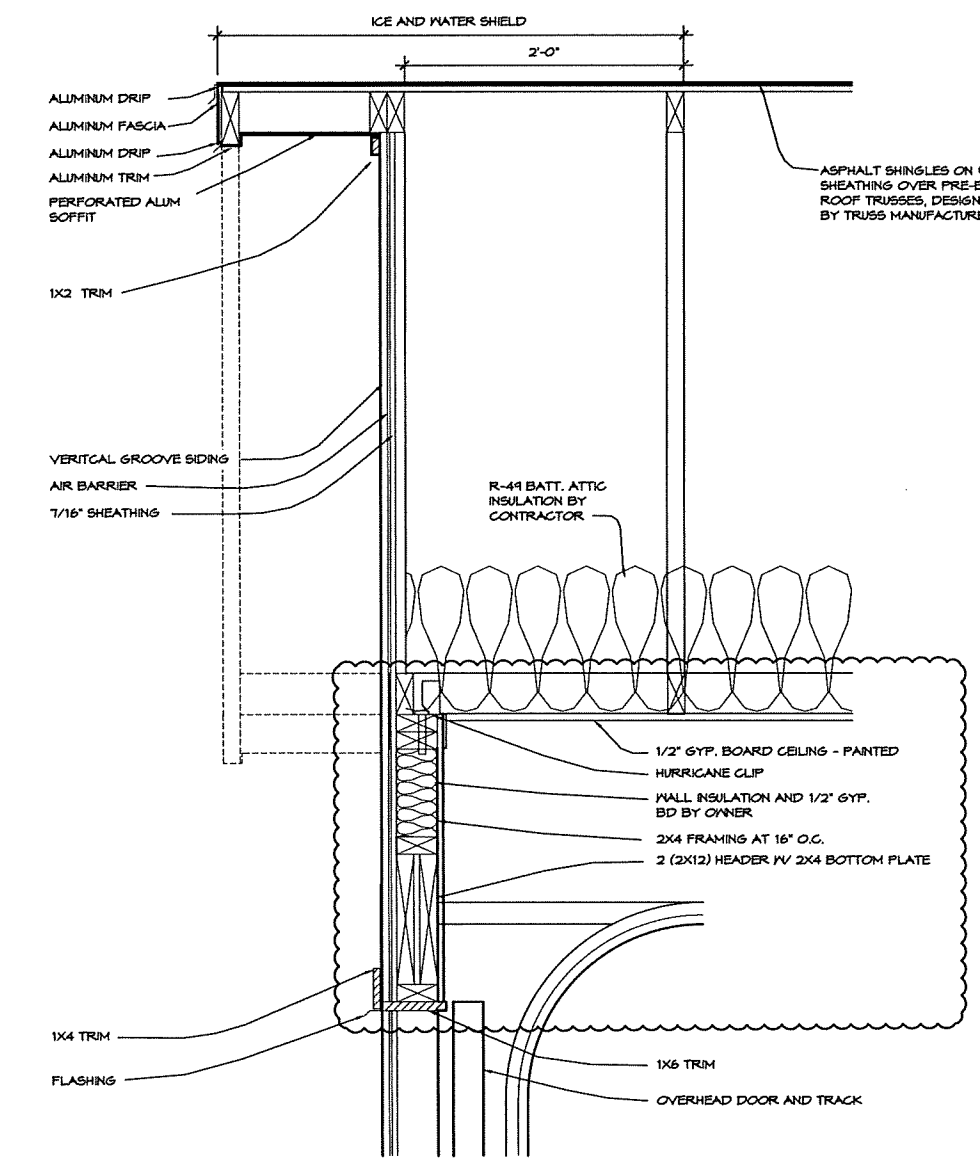
4 SOUTH BUILDING SECTION
 1/4" = 1'-0" BLD65EC01



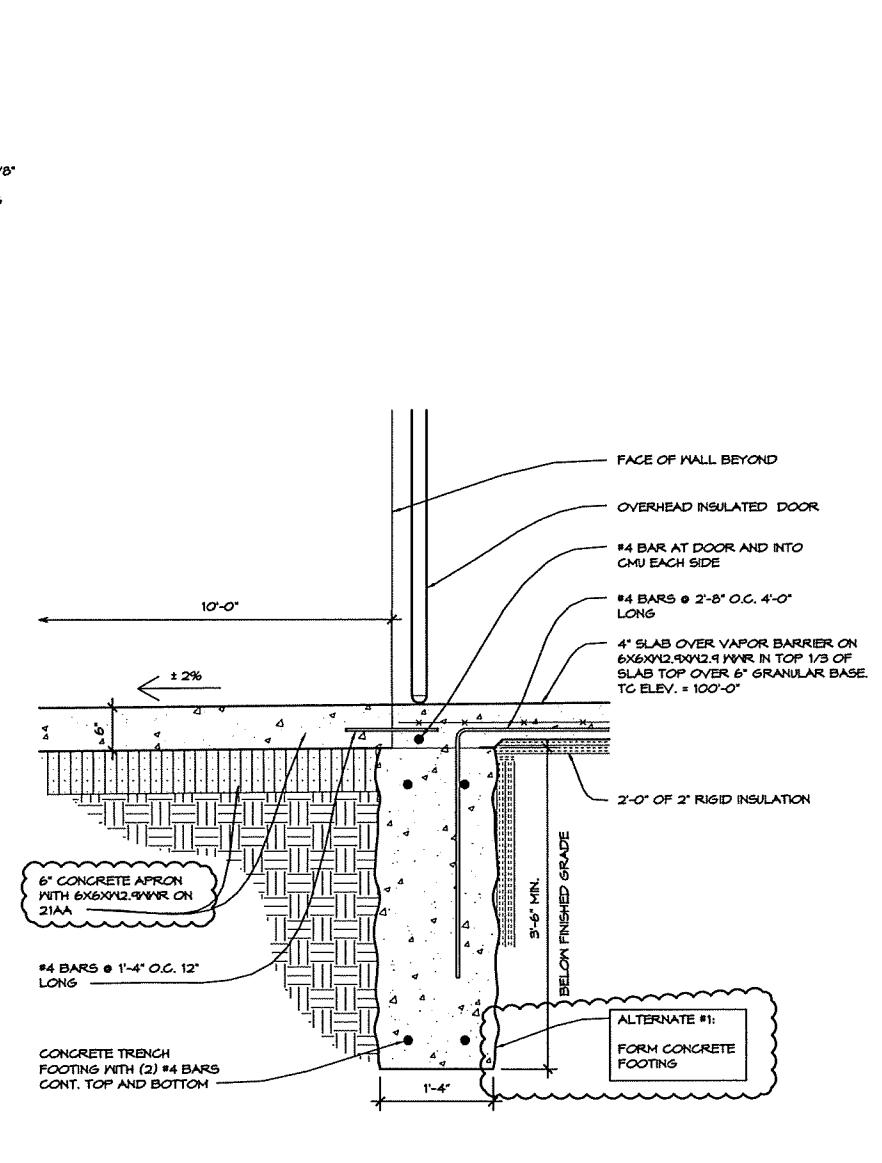
3 WEST BUILDING SECTION
 1/4" = 1'-0" BLD65EC01



5 WALL DETAIL
 1" = 1'-0" WSEC02



2 OVERHEAD DOOR SECTION DETAIL
 1 1/2" = 1'-0" DRDTL01



1 WALL SECTION
 1" = 1'-0" WSEC02

Innovation Park Ranger
 @pragaCAD/A102.dwg

SYMBOL LEGEND

POWER		LIGHTING	
	HOME RUN TO PANEL INDICATED. 2#12#12 GND 3/4" C UNLESS NOTED OTHERWISE.		FIXTURE TYPE
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING		MOUNTING HEIGHT AFF, R-RECESSED, S-SURFACE
	CIRCUIT BREAKER POWER PANEL 120/240V 10 3M		SWITCH SINGLE POLE
	DUPLEX RECEPTACLE 20A 10 120V,		OCCUPANCY SENSOR SWITCH
	DUPLEX RECEPTACLE 20A 10 120V-C INDICATES CEILING MOUNT		
	SINGLE RECEPTACLE 20A 10 240V, MOUNT AS DIRECTED BY OWNER		
	JUNCTION BOX		

FIXTURE SCHEDULE

SYMBOL	TYPE	LAMP		MOUNTING HEIGHT	DESCRIPTION	MANUFACTURER
		NO	TYPE			
	A	LP840	80CRI 8400 LUMENS 19W	S	5.2"x48" SURFACE MOUNTED LED INDUSTRIAL FIXTURE, ALUMINUM LIGHT WEIGHT HEAT SINK DESIGN, FABRICATED STEEL CHANNEL, WIDE DIFFUSED LENS, 3000 LUMENS, WIDE DISTRIBUTION, ELECTRONIC DRIVER, 4000K, 120V OPERATION.	1. LITHONIA CLX LED MDL SERIES 2. COOPER 3. WILLIAMS
	B	LP840	80CRI 8400 LUMENS 32W	S	5.5"x48" SURFACE MOUNTED LOW PROFILE LED WRAPAROUND FIXTURE, DIE FORMED COLD ROLL STEEL WITH SNAP ON CHANNEL COVER, 3400 LUMENS, WIDE DISTRIBUTION, ELECTRONIC DRIVER, 4000K, 120V OPERATION.	1. LITHONIA SB LED WRAP SERIES 2. COOPER 3. WILLIAMS
	C	LED	4000K 26W	S SEE PLANS FOR MOUNTING HEIGHT	13-3/4"x11 X 10"D X 6 3/8" A. ARCHITECTURAL STYLE LED WALL PACK, RUGGED DIE-CAST ALUMINUM HOUSING, SINGLE PIECE DIE CAST ALUMINUM CONSTRUCTION WITH COMPLETELY SEALED HOUSING, UL LISTED FOR WET LOCATION, 10 LED SINGLE ENGINE 100MA DRIVER, 2567 LUMENS, TYPE B DISTRIBUTION, PHOTOCELL, VANDAL GUARD AND WIRE GUARD, 120 VOLT, COLOR AS SELECTED BY ARCHITECTURAL TRADES.	1. LITHONIA DSXW1-10C-700-40K T3M-120-PE-WG-VG-SF.
	X	LED		S	EXIT LIGHT EMERGENCY LIGHT SHALL BE UNIVERSAL MOUNT, DIE CAST ALUMINUM CONSTRUCTION, HIGH OUTPUT LED DIFFUSE LIGHT PANEL, RED LETTERS WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY CAPABLE OF PROVIDING 90 MINUTE FULL LIGHT OPERATION. CAT #ELX 625	1. ELITE LED LIGHTING ELX-625 2. LITHONIA LIGHTING
	X1	LED		S	EMERGENCY LIGHT REMOTE HEAD TO BE CONNECTED TO EXIT SIGN. CAT #ELM LED 881	1. ELITE LED LIGHTING ELM-LED-881 2. LITHONIA LIGHTING

MOUNTING HEIGHT LEGEND: K-RECESSED, S-SURFACE, P-PENDANT, C-CEILING, SO-SEE DETAIL
 *'-"' - MOUNTING HEIGHT ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURE.

MECHANICAL SPECIFICATIONS

DRAWINGS:
 The design drawings show the general arrangement and extent of the work. The drawings are diagrammatic and may not be drawn to scale in certain areas for purposes of clarity and legibility. It is intended that all apparatus be located symmetrical with architectural elements and be installed to avoid obstructions and preserve headroom. The contractor shall review the plans of other trades with his own work to avoid conflicts and interference's; he shall make use of all sources of data, including shop drawings and drawings of equipment furnished by others.

ACCESS TO EQUIPMENT:
 All control devices, equipment, dampers, etc., shall be so located so as to provide for each access of operation, repairs and maintenance; if concealed, access panels or extended operators shall be provided.

SUPPORTS:
 Provide all supports, framing, etc., for the proper installation of pipe, equipment, etc., fabricated from structural steel shapes and to prevent sagging, vibration and strain, and to provide for expansion and contraction.

SYSTEM BALANCING:
 The heating, ventilating and air conditioning shall be tested and balanced to demonstrate that specified capacities of the various parts of all systems as indicated in the contract documents can be met and all controls are functioning properly.

GUARANTEE:
 All material and workmanship shall be guaranteed for a period of one year from the date of acceptance, and the contractor shall make good any defects within that period at no additional cost to the owner.

PLUMBING
SANITARY PIPING:
 All piping below grade shall be service weight cast iron soil pipe with compression type fittings. Option: Pipe and Fittings, shall be plastic PVC: Type DWV, per: ASTM D2665. Joints shall be plastic PVC solvent welded, per: ASTM D2665.

CLEANOUTS AND ACCESS COVERS (CO):
 Provide cleanouts at the foot or base of each vertical waste or soil stack, in drainage lines at all changes in direction and at 100'-0" intervals having no changes in direction.

GAS PIPING:
 Standard weight schedule 40, ASTM 1-20 black steel pipe with class 150 screwed malleable iron fittings.

GAS VALVE:
 Gas valve shall be non-lubricated plug valves; ACF or Dezurik. Provide plug valves at all connections to equipment.

UNIT HEATER UH-1
 Reznor UDA5045 gas-fired separated combustion, 630 CFM @ 45 MBH input, 37.4 MBH output, aluminum steel heat exchanger, aluminum steel burner and drip pan, spark ignited, remote thermostat, 2.5 FLA, 115 volts.



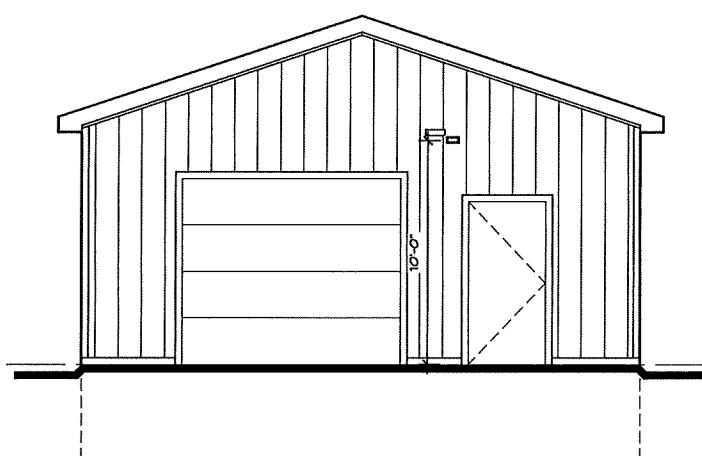
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ELECTRICAL NOTES

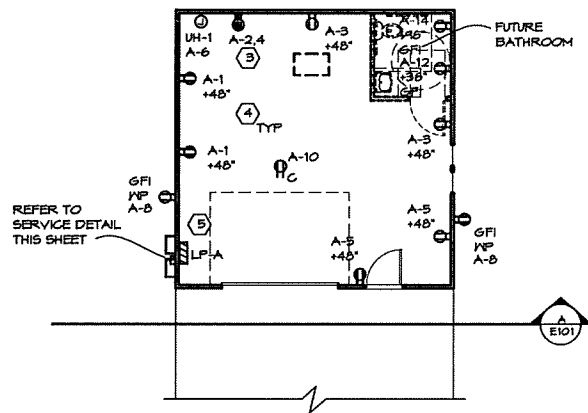
- ELECTRICAL WORK SHALL COMPLY WITH LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
- ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR, UNLESS OTHERWISE NOTED.
- WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" MIN. CONDUITS NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED.
- RECEPTACLE CIRCUITS SHALL HAVE A DEDICATED GROUND AND DEDICATED NEUTRAL.
- VERIFY AND COORDINATE WITH ARCHITECTURAL DRAWINGS EXACT LOCATION AND MOUNTING HEIGHTS OF POWER AND DATA OUTLETS.
- PROVIDE A TYPEWRITTEN DIRECTORY IN THE PANEL DOOR, ACCURATELY INDICATING ROOMS AND EQUIPMENT BEING SERVED. CONTRACTOR SHOULD MAKE EVERY ATTEMPT TO IDENTIFY ALL CIRCUITS.

KEYED ELECTRICAL NOTES

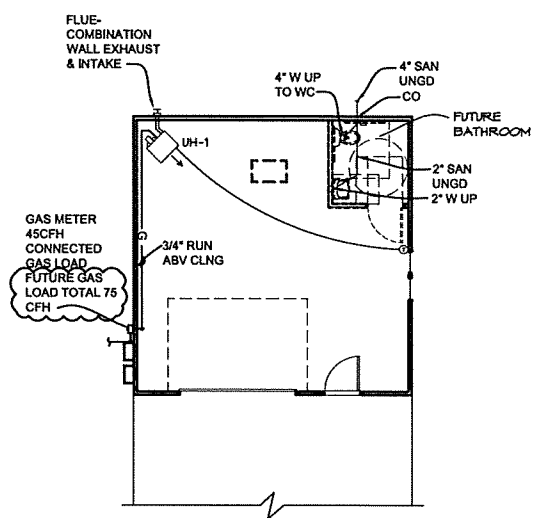
- MOUNT FIXTURE ABOVE CEILING IN ATTIC SPACE, CIRCUIT TO FIXTURES BELOW AND SWITCH IN ATTIC SPACE.
- OUTDOOR FIXTURES TO BE CONTROLLED BY PHOTOCELL.
- 240V COMPRESSOR, CIRCUIT AS SHOWN, VERIFY EXACT LOCATION AND TYPE OF CONNECTION WITH OWNER PRIOR TO ROUGH-IN.
- ALL RECEPTACLES SHALL BE GFI, SPECIFICATION GRADE, 20A 120V, GRAY COLOR WITH STAINLESS STEEL COVER PLATE. BY LEGRAND, LEVITON OR EQUAL.
- NEW PANEL "LP-A" SHALL BE SPECIFICATION GRADE, SURFACE MOUNTED, "SQUARE D" OR EQUAL BY EATON OR SIEMENS. SEE SCHEDULE THIS SHEET.



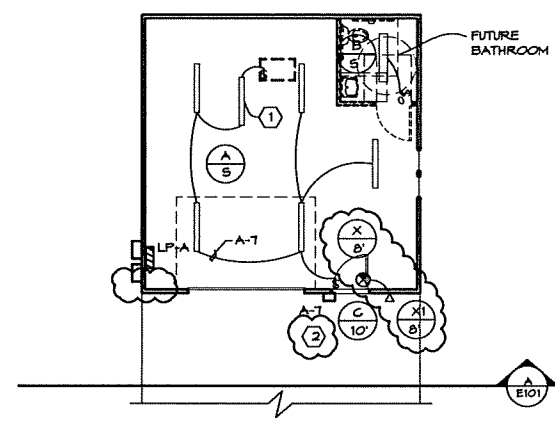
EAST EXTERIOR BUILDING ELEVATION
 1/4" = 1'-0"



POWER PLAN
 1/8" = 1'-0"

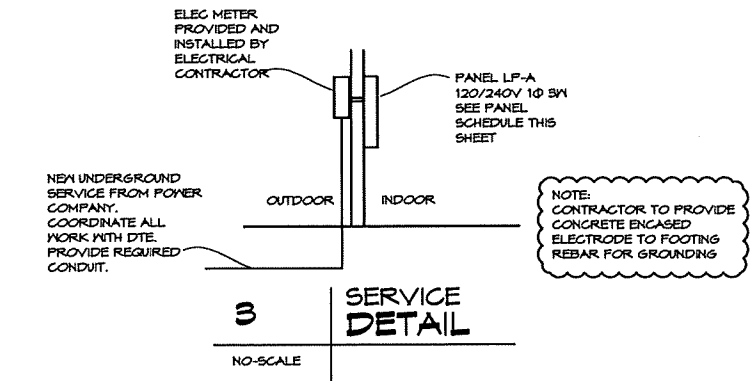


MECHANICAL PLAN
 1/8" = 1'-0"



LIGHTING PLAN
 1/8" = 1'-0"

DESCRIPTION		KW PER PHASE		CIR. NO.	A		B		DESCRIPTION
RECEPTACLES	RECEPTACLES	A	B		A	B	A	B	
RECEPTACLES	RECEPTACLES	0.6	0.6	1	20	20	1.2	1.2	AIR COMPRESSOR
RECEPTACLES	RECEPTACLES	0.6	0.6	3	15	15	0.6	0.6	UH-1
LIGHTING	SPARE	0.5		7	20	20	0.4	0.4	OUTDOOR RECEPT. CEILING OUTLET
				8			1.0	1.0	BATHROOM OUTLET
				9			1.0	1.0	FUTURE HTR SPACE
				11			2.0	2.0	
				12					
				13					
				14					
				15					
				17					



NO.	DESCRIPTION	DATE
6		
5		
4		
3		
2	POST-BID ADDENDUM	01/22/19
1	BIDS AND PERMITS	01/11/19

RANGER'S BUILDING
ROCHESTER HILLS INNOVATION HILLS PARK
 2800 W. HAMLIN RD.
 ROCHESTER HILLS, MI 48309

ELECTRICAL PLANS

PROJECT NO. 19-150
 DATE 1/26/2019
 DRAWN FAA/BNR
 CHECKED

ME101

CAD FILE NO. ME101.dwg
 SCALE 1/8" = 1'-0" SHEET B OF B