

# SITE AND BUILDING IMPROVEMENTS FOR: CITY OF ROCHESTER HILLS FIRE STATION #3

2137 W. AUBURN ROAD, ROCHESTER HILLS, MICHIGAN 48309

## OWNER

CITY OF ROCHESTER HILLS  
1000 ROCHESTER HILLS DRIVE  
ROCHESTER HILLS, MICHIGAN 48309

## ARCHITECT

CHMP, INC  
5198 TERRITORIAL ROAD  
GRAND BLANC, MICHIGAN 48439  
(810) 695-5910

## STRUCTURAL

SNYDER & STALEY ENGINEERING, P.L.C.  
3085 BAY ROAD SUITE 6  
SAGINAW, MI 48603  
(989) 797-1710  
(989) 797-1715 (FAX.)

## MECHANICAL / ELECTRICAL ENGINEER

DICLEMENTE SIEGEL DESIGN  
1075 EAST BRISTOL ROAD  
BURTON, MICHIGAN 48529  
(810) 238-10245  
(810) 238-7114 (FAX)

## SHEET INDEX

| SHEET No. | TITLE       |
|-----------|-------------|
| TS        | TITLE SHEET |

### CIVIL

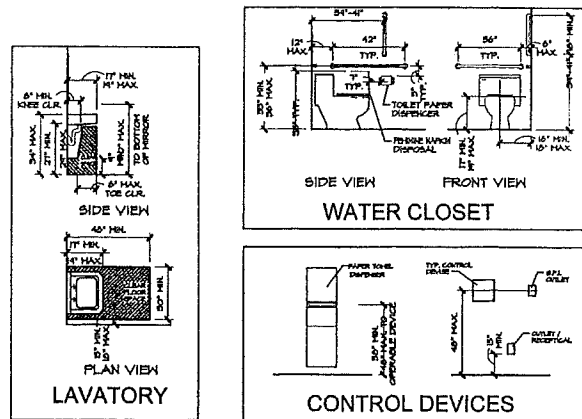
|      |                       |
|------|-----------------------|
| TS-1 | TOPOGRAPHICAL SURVEY  |
| C-1  | DEMOLITION PLAN       |
| C-2  | SITE AND UTILITY PLAN |

### ARCHITECTURAL

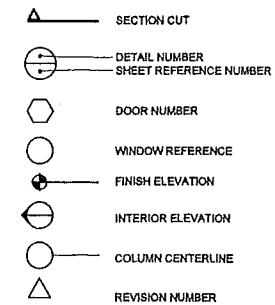
|     |                      |
|-----|----------------------|
| A-1 | FLOOR PLAN- NEW WORK |
| A-2 | EXTERIOR ELEVATIONS  |

### ELECTRICAL

|     |                      |
|-----|----------------------|
| E-2 | ELECTRICAL SITE PLAN |
|-----|----------------------|



## DRAWING SYMBOLS



## ABBREVIATIONS

|                |                         |             |                             |
|----------------|-------------------------|-------------|-----------------------------|
| ∅              | ANGLE                   | INT.        | INTERIOR                    |
| <              | ANCHOR BOLT             | JAN.        | JANITOR                     |
| A.B.           | AIR CONDITIONING        | J.B./J. BOX | JUNCTION BOX                |
| A.C.           | ACOUSTICAL              | LAM.        | LAMINATE                    |
| ADJ.           | ADJUSTABLE              | LAV.        | LAVATORY                    |
| A.F.F.         | ABOVE FINISH FLOOR      | L.L.        | LANDLORD                    |
| ALT.           | ALTERNATE               | MAS.        | MASONRY                     |
| ALUM.          | ALUMINUM                | MATL.       | MATERIAL                    |
| ARCH.          | ARCHITECTURAL           | MAX.        | MAXIMUM                     |
| BLKG.          | BLOCKING                | MECH.       | MECHANICAL                  |
| B.M.           | BENCH MARK              | MET.        | METAL                       |
| BOT.           | BOTTOM                  | MISC.       | MISCELLANEOUS               |
| BRG.           | BEARING                 | MIN.        | MINIMUM                     |
| B.U.R.         | BUILT UP ROOF           | M.O.        | MASONRY OPENING             |
| CHNL.          | CHANNEL                 | N.I.C.      | NOT IN CONTRACT             |
| C.T.           | CERAMIC TILE            | N.T.S.      | NOT TO SCALE                |
| C.J.           | CONTROL JOINT           | ON CENTER   | ON CENTER                   |
| C.L./ C.       | CENTERLINE              | O.D.        | OUTSIDE DIAMETER            |
| CLG.           | CEILING                 | OPNG.       | OPENING                     |
|                |                         | OPP.        | OPPOSITE                    |
| C.O.           | CLEAN OUT               | PL.LAM.     | PLASTIC LAMINATE            |
| COL.           | COLUMN                  | PL/ R       | PLATE                       |
| CONC.          | CONCRETE                | PLYWD.      | PLYWOOD                     |
| CONST. JT.     | CONSTRUCTION JOINT      | PR.         | PAIR                        |
| CONT.          | CONTINUOUS              | R.A.        | RETURN AIR                  |
| DBL.           | DOUBLE                  | R.          | RADIUS                      |
| DET.           | DETAIL                  | R.D.        | ROOF DRAIN                  |
| DIA. ∅         | DIAMETER                | REF.        | REFRIGERATOR                |
| DIV.           | DIVISION                | REINF.      | REINFORCING                 |
| DN.            | DOWN                    | REQ.        | REQUIRED                    |
| DW.            | DISHWASHER              | S.A.        | SUPPLY AIR                  |
| D.S.           | DOWN SPOUT              | SFS         | SURFACE FOUR SIDES          |
| DWG.           | DRAWING                 | S.C.        | SOLID CORE                  |
| E.A.           | EACH                    | SHT.        | SHEET                       |
| E.J.           | EXPANSION JOINT         | SPEC.       | SPECIFICATION               |
| ELEC.          | ELECTRICAL              | S.S.        | SERVICE SINK                |
| ELEV.          | ELEVATION               | ST.STL.     | STAINLESS STEEL             |
| EQ.            | EQUAL                   | STL.        | STEEL                       |
| EST.           | ESTIMATE                | STOR.       | STORAGE                     |
| E.W.           | EACH WAY                | STR.        | STRUCTURAL                  |
| E.W.C.         | ELECTRICAL WATER COOLER | T.          | THERMOSTAT                  |
| EXP.           | EXPANSION               | T.C.        | TOP OF CURB                 |
| EXT.           | EXTERIOR                | TEN.        | TENANT                      |
| FIN. FLR./F.F. | FINISH FLOOR FINISH     | T.G.C.      | TENANT'S GENERAL CONTRACTOR |
| FIN.           | FINISH                  | T.P.        | TOP OF PAVING               |
| FLR.           | FLOOR                   | TYP.        | TYPICAL                     |
| F.S.           | FLOOR SINK              | U.N.O.      | UNLESS NOTED OTHERWISE      |
| F.B.O.         | FURNISHED BY OWNER      | V.I.F.      | VERIFY IN FIELD             |
| F.D.           | FLOOR DRAIN             | V.T.R.      | VENT THROUGH ROOF           |
| FDN.           | FOUNDATION              | W.H.        | WATER HEATER                |
| GA.            | GALVE                   | W.I.        | WROUGHT IRON                |
| GALV.          | GALVANIZED              | W.P.        | WORK POINT                  |
| G.C.           | GENERAL CONTRACTOR      | W.R.        | WATER RESISTANT             |
| G.I.           | GALVANIZED IRON         | WT.         | WEIGHT                      |
| H.B.           | HOSE BIBB               | WV          | WITH                        |
| H.C.           | HOLLOW CORE             | W/O         | WITHOUT                     |
| HDWE.          | HARDWARE                |             |                             |
| H.M.           | HOLLOW METAL            |             |                             |
| I.D.           | INSIDE DIAMETER         |             |                             |
| INSUL.         | INSULATION              |             |                             |

## BUILDING CODE INFORMATION

### CODE REVIEW INFORMATION - FIRE STATION #3

#### APPLICABLE CODES

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT NOT LIMITED TO THE FOLLOWING

|                            |                                     |        |
|----------------------------|-------------------------------------|--------|
| 1. BUILDING AND STRUCTURAL | MICHIGAN BUILDING CODE              | (2012) |
| 2. PLUMBING                | MICHIGAN BUILDING CODE              | (2012) |
| 3. MECHANICAL              | MICHIGAN BUILDING CODE              | (2012) |
| 4. ELECTRICAL              | NATIONAL ELECTRICAL CODE            | (2011) |
| 5. BARRIER FREE ACCESS     | MICHIGAN BUILDING CODE (CHAPTER 11) | (2009) |

#### CODE REVIEW

| BUILDING USE GROUP (307.1)          | MIXED USE SEPARATED (2 HR. FIRE BARRIER WALL) | ALLOWABLE AREA   |
|-------------------------------------|---|------------------|
| B - BUSINESS (CIVIC ADMINISTRATION) |   | 1,316 GSF        |
| R-2 RESIDENTIAL (DORMITORIES)       |   | 613 GSF          |
| S-2 STORAGE (VEHICLE STORAGE)       |   | 2,845 GSF        |
| <b>TOTAL AREA</b>                   |   | <b>4,773 GSF</b> |

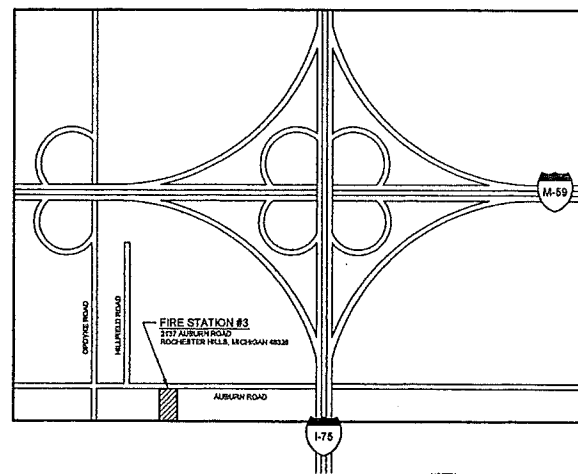
| TYPE OF CONSTRUCTION | II B NON-COMBUSTIBLE    | R-2 - RESIDENTIAL       |
|----------------------|-------------------------|-------------------------|
| B - BUSINESS         | ALLOWABLE AREA:         | ALLOWABLE AREA:         |
|                      | 3 STORIES / 23,000 S.F. | 4 STORIES / 18,000 S.F. |
|                      | ACTUAL AREA:            | ACTUAL AREA:            |
|                      | 1 STORY / 1,316 G.S.F.  | 1 STORY / 613 G.S.F.    |
| S-2 - STORAGE        | ALLOWABLE AREA:         |                         |
|                      | 3 STORIES / 28,000 S.F. |                         |
|                      | ACTUAL AREA:            |                         |
|                      | 1 STORY / 2,845 G.S.F.  |                         |

| ALLOWABLE HEIGHT/ AREA (TABLE 503) | ACTUAL AREA:           |
|------------------------------------|------------------------|
|                                    | 1 STORY / 4,773 G.S.F. |

| FIRE PROTECTION (506.3)       | MIXED USE SEPARATED (2 HR. FIRE BARRIER WALL) |
|-------------------------------|---|
| R-2 RESIDENTIAL (DORMITORY)   | SPRINKLED                                     |
| B - BUSINESS ADMINISTRATION   | SPRINKLED                                     |
| S-2 STORAGE (VEHICLE STORAGE) | SPRINKLED                                     |

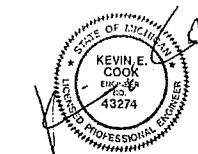
| OCCUPANT LOAD (TABLE 1004.1.1) | B - BUSINESS       | R-2 - RESIDENTIAL | S-2 - STORAGE      | TOTAL:              |
|--------------------------------|--------------------|-------------------|--------------------|---------------------|
| - ADMINISTRATION               | 1,316 G.S.F./100 = |                   |                    | 14 OCCUPANTS        |
| - DORMITORIES                  |                    | 613 G.S.F./50 =   |                    | 13 OCCUPANTS        |
| - VEHICLE STORAGE              |                    |                   | 2,845 G.S.F./300 = | 10 OCCUPANTS        |
|                                |                    |                   |                    | <b>37 OCCUPANTS</b> |

| EXITS REQUIRED (TABLE 1021.1) | FOR 1-500 OCCUPANTS | 2 EXITS |
|-------------------------------|---------------------|---------|
|                               | EXITS PROVIDED      | 3 EXITS |



LOCATION MAP  
NOT TO SCALE

**TITLE SHEET**  
PROJECT No. 14003900  
DECEMBER 11, 2014  
ISSUED FOR: SITE PLAN APPROVAL  
CITY FILE #14-018



**CHMP INC.**  
5198 TERRITORIAL ROAD  
GRAND BLANC, MI 48438  
TELEPHONE 810/695-5910



ARCHITECTURE  
ENGINEERING  
LANDSCAPE ARCHITECTURE  
SURVEYING

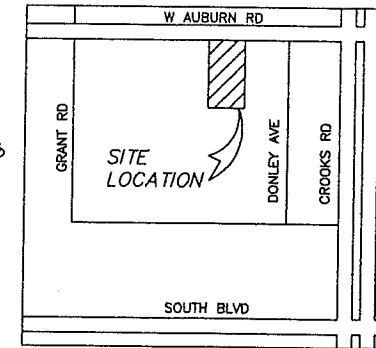
**LEGEND (EXISTING)**

- METAL OR CONC POST
- MANHOLE
- ~ WATER FOUNTAIN
- PARKING METER
- ▭ BILLBOARD OR LARGE SIGN
- 18" BASKETBALL HOOP
- BOLLARD
- ⌈ STAKE OR SCOURTURE
- ▭ BENCH
- NY. INVERT ELEVATION
- DNF CORRUGATED METAL PIPE
- STAMP
- CONIFEROUS TREE
- DECODOUS TREE
- ✱ DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- ▭ CONCRETE
- ▭ ASPHALT
- ▭ GRAVEL
- ⊕ SECTION CORNER
- △ TRANSVERSE POINT
- ① STRUCTURE NUMBER
- ② POINT No.
- SPOT ELEVATION
- U.G. UNDERGROUND
- F.O. FIBER OPTIC
- CONC CONCRETE
- ASPH ASPHALT
- FL FOUND IRON
- SL SET IRON
- FM FOUND MONUMENT
- GAS
- SANITARY SEWER (SAN)
- STORM SEWER (STM)
- WATERMAIN (WM)
- OVERHEAD WIRE (OHW)
- UNDERGROUND ELECTRIC (ELEC)
- UNDERGROUND PHONE (PH)
- UNDERGROUND CABLE (CBL)
- DRAIN LINK FENCE (DLF)
- WOOD FENCE
- WOVEN WIRE FENCE (W.W.F.)
- GUARD RAIL
- CENTERLINE OF DITCH OR STALE
- DRAINAGE
- DITCH BANK/TOP OF SLOPE
- SWAMP
- PROPERTY LINES
- EASEMENTS
- RAILROAD
- F.P.K. FOUND P.K. NAIL
- MANHOLE
- CATCH BASIN
- SEWER CLEAN OUT
- GAS METER
- GAS SHUT OFF VALVE
- VALVE BOX
- GATE VALVE & WELL
- WATER SHUT OFF VALVE
- FIRE HYDRANT
- SPRINKLER VALVE BOX
- LAWN SPRINKLER HEAD
- HAND HOLE
- ELECTRIC RISER OR METER
- TELEPHONE RISER
- CABLE TV RISER
- AIR CONDITION UNIT
- UTILITY POLE
- UTILITY POLE WITH TRANSFORMER
- LIGHT POLE

**LEGAL DESCRIPTION  
PARCEL**

Lots 8, 9 and 10 of "EMDALE", according to the plat thereof as recorded in Liber 37 of Plats, Page 18, Oakland County Register of Deeds Office. Said Plat being a subdivision of part of the East 1/2 of the Northeast 1/4 of Section 32, T3N., R11E, Avon Township (Now The City of Rochester Hills), Oakland County, Michigan. Said parcel contains 0.66 acres, more or less.

Huron Consultants did not perform a boundary survey, plans to be used for topographical information only.



**LOCATION MAP**  
NOT TO SCALE



**HURON  
CONSULTANTS**  
ENGINEERS & SCIENTISTS

3811 24th Ave, Suite A  
Fort Gratiot, MI 48060  
TEL: (810) 966-0680  
FAX: (810) 966-0681

www.huronconsultants.com

CLIENT NAME:

CHMP INC  
5108 TERRITORIAL RD  
GRAND BLANG, MI  
48439

T (810) 695-5610

8 WORKING DAYS  
800-482-7171



Know what's below.  
Call before you dig.

PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES LOCATION AND DEPTH WITHIN THE PROJECT AREA SHALL BE FIELD VERIFIED. CALL 888 DIG SYSTEM 3 WORKING DAYS PRIOR TO CONSTRUCTION.

UTILITY INFORMATION SHOWN ON THIS DRAWING IS APPROXIMATE AND MAY BE ACCORDING TO AVAILABLE RECORDS OR DISCLOSED INFORMATION BY VARIOUS UTILITY COMPANIES, PUBLIC AGENCIES, OR OTHER SOURCES AND THIS MAY NOT NECESSARILY REFLECT ACTUAL FIELD LOCATIONS AND NO GUARANTEE IS GIVEN TO COMPLETENESS OR ACCURACY.

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PROJECT NAME:

**ROCHESTER HILLS  
FIRE STATION 3**

01ST W AUBURN RD

**TOPOGRAPHICAL  
SURVEY**

PROJECT LOCATION:  
SEC 32, T3N, R11E  
CITY OF ROCHESTER HILLS  
OAKLAND COUNTY

Drawn By: S.GENNA  
Checked By: SS  
Approved By: SS

REVISIONS:

1. 10/03/14 ISSUED TO CHMP
2. 10/13/14 FINAL
3. 12/09/14 CITY REV 1

SCALE VERIFICATION:

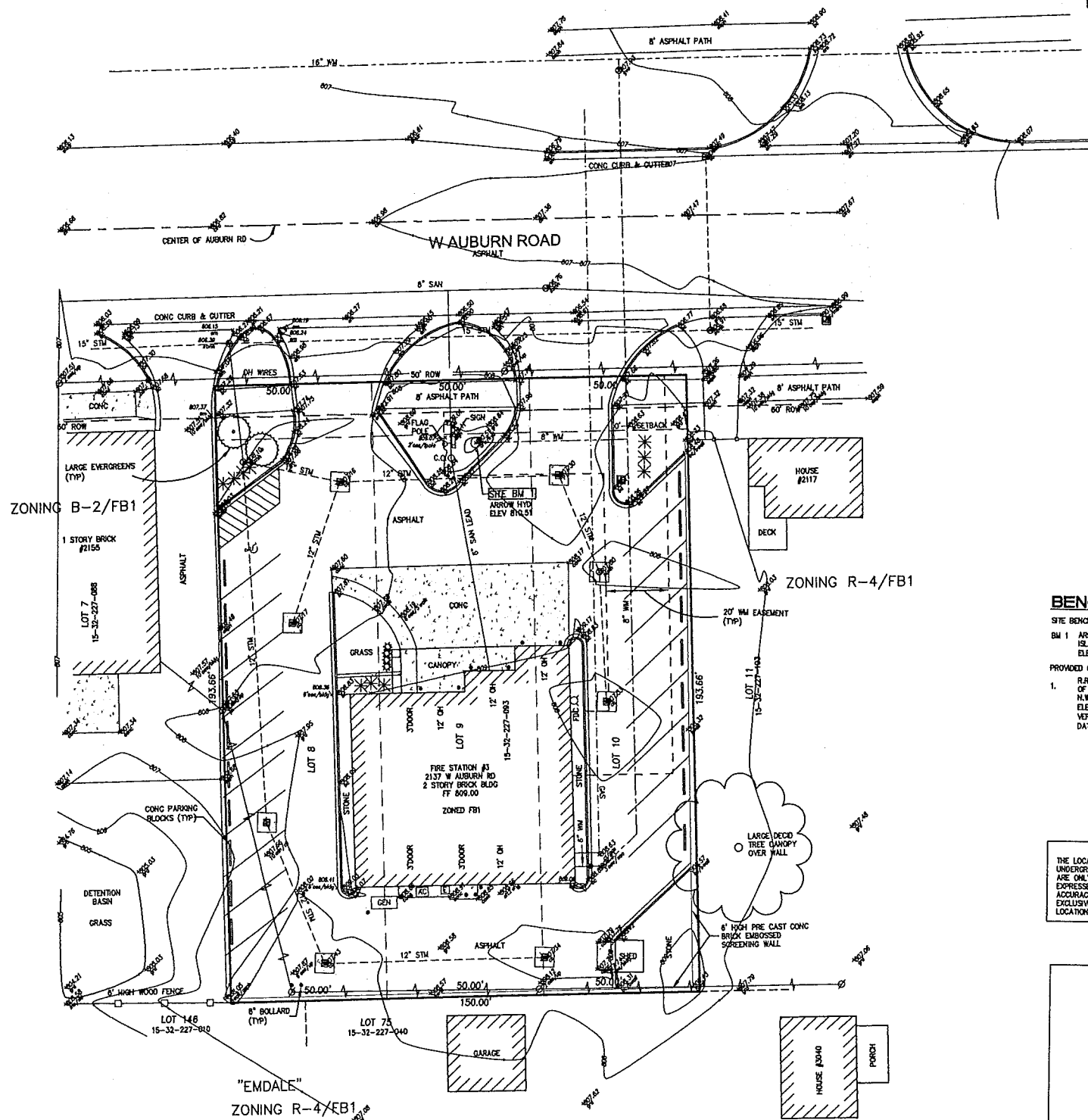


SCALE:  
1"=20'

HC PROJECT NO:  
14-11242

HC DRAWING NO:  
14-11242TPFS3

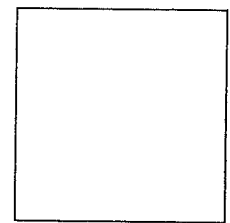
1 OF 1



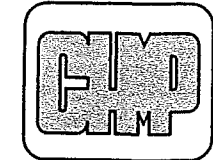
**BENCHMARKS**

- SITE BENCH MARK  
BM 1 ARROW ON HYD BY CENTER ISLAND  
ELEV 810.51 (NAVD 88 DATUM)
- PROVIDED CITY BENCH MARKS  
1. R.R. SPIKE IN D.E. POLE AT WEST LINE OF LOT 8, 100 FT. SOUTH OF J.C. N.W. LOT CORNER  
ELEVATION 808.27 (U.S.G.S. DATUM)  
VERIFIED A NAIL AT 808.87 (NAVD 88 DATUM)

**CAUTION!!!**  
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING EXACT LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.



**TOPOGRAPHICAL SURVEY**  
1" = 20'



ARCHITECTURE  
ENGINEERING  
LANDSCAPE ARCHITECTURE  
SURVEYING

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SITE AND BUILDING IMPROVEMENTS FOR:  
**CITY OF ROCHESTER HILLS  
FIRE STATION #3**  
2137 W. AUBURN ROAD, ROCHESTER HILLS, MICHIGAN 48309

**GENERAL NOTES**

- THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL TELEPHONE MISS DIG (800-482-7171) FOR THE LOCATION OF UNDERGROUND GAS AND CABLE FACILITIES AND SHALL NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES THAT AFFECT THIS JOB.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE CITY OF ROCHESTER HILLS, OAKLAND COUNTY DRAIN COMMISSION, OAKLAND COUNTY ROAD COMMISSION, MICHIGAN DEPARTMENT OF TRANSPORTATION, AND THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) WHERE APPLICABLE. REFER TO CITY OF ROCHESTER HILLS FOR ALL NOTES AND DETAILS RELATED TO PAVING, SANITARY SEWER, STORM SEWER AND WATERMAIN CONSTRUCTION.
- CHMP, INC SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION, NOR THE SAFETY ON THE JOB SITE, NOR SHALL CHMP, INC. BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THESE DOCUMENTS.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ENGINEER, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, AND THE STATE OF MICHIGAN FROM ALL LIABILITIES FOR INJURY TO PERSONS, OR DAMAGE TO OR LOSS OF PROPERTY, OR ANY OTHER LOSS, COST OR EXPENSE, AS A RESULT OF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, AGENTS, OR SUBCONTRACTORS.
- THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES AND PROPOSED UTILITY CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTION. FURTHER, THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES AT PROPOSED CONNECTIONS AND CROSSINGS SHALL BE FIELD EXCAVATED TO VERIFY LOCATION AND ELEVATION. FIELD INFORMATION SHALL BE SUPPLIED TO THE ENGINEER SO THAT THE ENGINEER MAY CONFIRM, ADJUST OR REVISE DESIGN ELEVATIONS OF PROPOSED UTILITIES.
- THE CONTRACTOR SHALL OBTAIN AND PAY (FEES, INSURANCE, ECT.) ALL PERMITS REQUIRED BY FEDERAL, STATE, LOCAL, OR PRIVATE AGENCIES. CONTRACTOR SHALL PAY ALL CHARGES FOR INSPECTION AND TESTING.
- THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION TO BE ATTENDED BY REPRESENTATIVES OF ALL PERMIT ISSUING AGENCIES TO COORDINATE THE WORK, INSPECTIONS AND TIMING OF ALL PARTIES.
- THE CONTRACTOR SHALL NOTIFY THE PERMIT ISSUING AGENCIES THREE (3) DAYS PRIOR TO CONSTRUCTION FOR REQUIRED INSPECTIONS. THE CONTRACTOR SHALL PAY FOR ALL NECESSARY PERMITS, BONDS, AND INSURANCE.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, STATE, AND LOCAL REGULATIONS FOR ALL WORK THAT TAKES PLACE ON THE SITE.

**SITE NOTES**

- SEE ARCHITECTURAL DRAWINGS FOR COMPLETE BUILDING DIMENSIONS.
- REFER TO CITY OF ROCHESTER HILLS STANDARD DETAILS FOR ALL NOTES AND DETAILS RELATED TO PAVING, SANITARY SEWER, STORM SEWER AND WATERMAIN CONSTRUCTION.
- WORKMANSHIP AND MATERIALS FOR ALL BITUMINOUS PAVING SHALL BE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, 2012 EDITION.
- CONCRETE PAVING SHALL BE REINFORCED IN ACCORDANCE WITH DETAIL 2 ON SHEET C-1.
- CONTRACTOR SHALL SEAL COAT AND RESTRIPE ENTIRE ASPHALT AREA INCLUDING ALL PARKING AND DRIVES UPON COMPLETION OF BUILDING RENOVATIONS. STRIPE PARKING SPACES AS INDICATED IN ACCORDANCE WITH MDOT SPECIFICATION, SECTION 811. LINE PAINT FOR PARKING SPACE STRIPING SHALL BE YELLOW, 4" WIDE. BARRIER FREE STRIPING, AISLES AND SYMBOLS SHALL BE BLUE.
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CONCRETE AND/OR ASPHALT PAVEMENT IN KIND AS REQUIRED TO INSTALL CONDUITS FOR SITE LIGHTING FIXTURES.
- THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF THE EXISTING SANITARY SEWER LEAD AND BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE TO THE TEMPORARY FACILITY IN STRICT ACCORDANCE WITH CITY OF ROCHESTER HILLS STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE PREMISES, AND UPON COMPLETION OF THE PROJECT, LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY THE LOCAL MUNICIPALITY.

**GRADING NOTES**

- SLOPE ALL PAVED SURFACES TO DRAIN TO STORM STRUCTURES. MINIMUM SLOPE ON NEW PAVED AREAS SHALL BE 1.0%, MAXIMUM SHALL BE 3.0%.
- CHECK LOCATION OF ALL UTILITY LINES PRIOR TO DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO UTILITIES AND/OR THE OWNER'S PROPERTY AND SHALL REPAIR, REPLACE, OR RESTORE SAME AT THE CONTRACTOR'S EXPENSE. CALL MISS DIG (3) WORKING DAYS BEFORE DIGGING AT 1-800-482-7171.
- SLOPE ALL SITE WORK UNIFORMLY BETWEEN NEW GRADES OR BETWEEN NEW GRADES AND EXISTING GRADES. THIS INCLUDES SLOPING ALL SITE WORK BETWEEN NEW GRADES AND RIM ELEVATION GRADES AT CATCH BASINS. TRANSITIONS BETWEEN CHANGE IN GRADES SHALL BE CONSTRUCTED WITH A MINIMUM 25 FOOT VERTICAL CURVE. PLAN GRADES INDICATE POINT OF INTERSECTION ELEVATIONS. AVOID ABRUPT GRADE CHANGES AT CATCH BASINS AND HIGH POINTS.
- AREA OF BUILDINGS, WALKS, AND PAVING SHALL BE STRIPPED OF TOPSOIL. TOPSOIL SHALL BE STORED ON THIS CONSTRUCTION SITE FOR RE-USE. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THIS CONSTRUCTION SITE.
- ALL FILL NECESSARY TO PROVIDE SUBGRADES FOR INTERIOR CONCRETE FLOOR SLABS AND CONCRETE APRONS SHALL BE MICHIGAN DEPARTMENT OF TRANSPORTATION, CLASS II.
- CONTRACTOR SHALL PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS AND/OR OAKLAND COUNTY REQUIREMENTS. THE CONTRACTOR SHALL PROTECT ALL EXISTING AND PROPOSED STORM SEWER FACILITIES ON AND ADJACENT TO THE SITE DURING EXCAVATION AND CONSTRUCTION. ALL SEDIMENT SHALL BE CONTAINED ON-SITE. ANY SILT IN COUNTY DRAINS, AS A RESULT OF THIS PROJECT SHALL BE REMOVED BY THE CONTRACTOR.

**SOIL EROSION AND SEDIMENTATION CONTROL**

MICHIGAN UNIFIED KEYING SYSTEM

| KEY | DETAIL   | CHARACTERIZATION | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|-----|--|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2   | CONCRETE PAVING REINFORCED WITH 4" W x 1.4" x 1.4" W.W.F.  |                  | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7   | CONCRETE PAVING REINFORCED WITH 1/2" EXPANSION JOINT, RECESSED 1/4" W/ 1/4" RADIUS ON CONCRETE - 20" O.C. MAX. |                  | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* INDICATES APPLICABILITY OF A SPECIFIC CONTROL MEASURE TO ONE OR MORE OF THE SEVEN PROBLEM AREAS

NONSLIP BROOM FINISH, TYPICAL ON ALL PEDESTRIAN PAVEMENTS

ALL EXTERIOR CONCRETE WALKS SHALL BE AIR ENTRAINED.

TOOLED CONTROL JOINT, 1/4" OF SLAB THICKNESS. SEE PLAN FOR LOCATIONS

CONCRETE PAVING REINFORCED WITH 4" W x 1.4" x 1.4" W.W.F.

1/2" EXPANSION JOINT, RECESSED 1/4" W/ 1/4" RADIUS ON CONCRETE - 20" O.C. MAX.

M.D.O.T. CLASS II GRANULAR MATERIAL COMPACTED TO 95% OF THE MATERIAL UNIT WEIGHT BY MODIFIED PROCTOR

EXISTING SUBGRADE COMPACTED TO 95% OF THE MATERIAL UNIT WEIGHT BY MODIFIED PROCTOR

**CONCRETE PAVING**  
NOT TO SCALE

1-1/2" BITUMINOUS SURFACE COURSE  
M.D.O.T. 38A (165 LBS/SYD)

2" BITUMINOUS LEVELING COURSE  
M.D.O.T. 13A HMA (220 LBS/SYD)

8" AGGREGATE BASE COURSE  
M.D.O.T. 21AA

**HMA PAVING SECTION**  
NOT TO SCALE  
SN=2.63

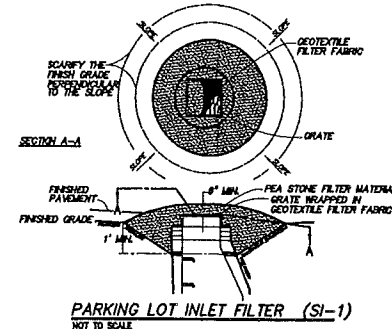
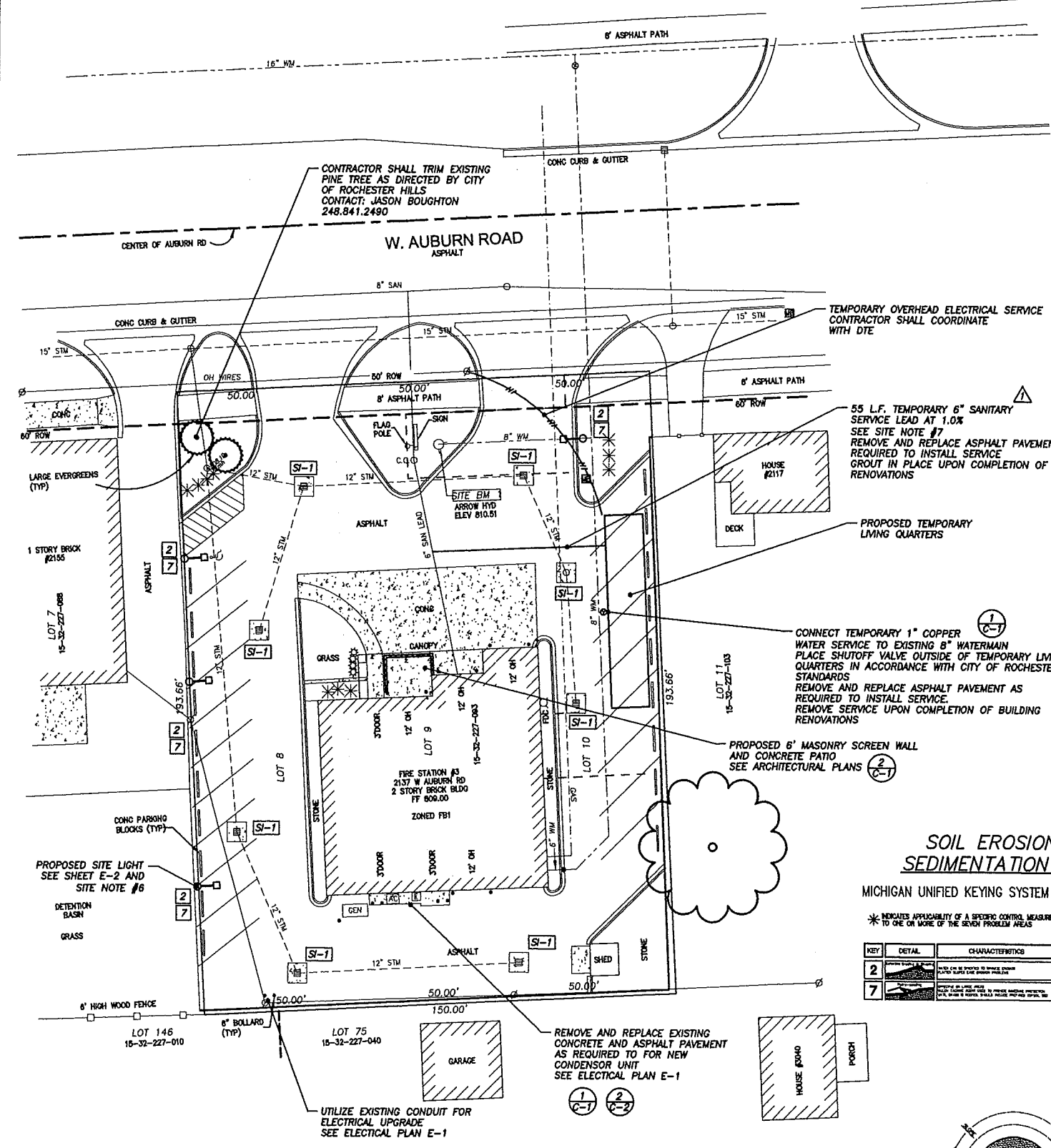
**GRAPHIC SCALE**

( IN FEET )  
1" = 20' HORIZONTAL

**LEGEND**

- STORM SEWER & MANHOLE
- SANITARY SEWER & MANHOLE
- WATERMAIN, HYDRANT, & VALVE
- GAS MAIN & VALVE
- BURIED TELEPHONE & MANHOLE
- UNDER GROUND ELECTRIC & MANHOLE
- OVERHEAD ELECTRIC, POLE & GUY WIRE
- CATCH BASIN (CURB & ROAD)
- WATER MANHOLE
- CONTOUR LINE
- FENCE
- GUARD RAIL
- LIGHT POLE
- SOB
- STREET SIGN
- WALKER
- WATER WELL

**SITE PLAN**



**REVISION INDEX**

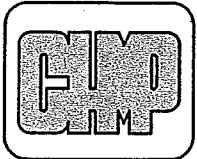
|    |   |
|----|---|
| 1. | PER CITY OF ROCHESTER HILLS COMMENTS, 12-5-14 |
|----|---|



Know what's below.  
Call before you dig.

LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE. ALL LOCATIONS MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

PROJECT NO. 14005400  
DATE DRAWN: 11-17-14  
DATE REVISED: 12-10-14  
DRAWN BY: KEG  
CHECKED BY: GSH  
SCALE: AS NOTED  
ISSUED FOR: DATE 11-17-14  
SITE PLAN REVIEW: 12-11-14  
SHEET NO. C-1  
OF CITY FILE #14-018



ARCHITECTURE  
 ENGINEERING  
 LANDSCAPE ARCHITECTURE  
 SURVEYING

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**NEW WORK LEGEND**

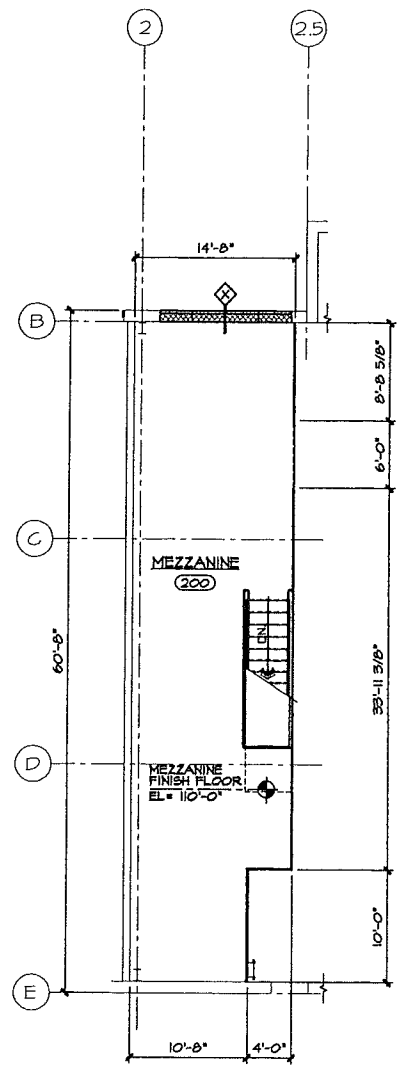
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- PARTITION TYPE - REFER TO HALL TYPES LEGEND - SHEET A-2

**NEW WORK GENERAL NOTES**

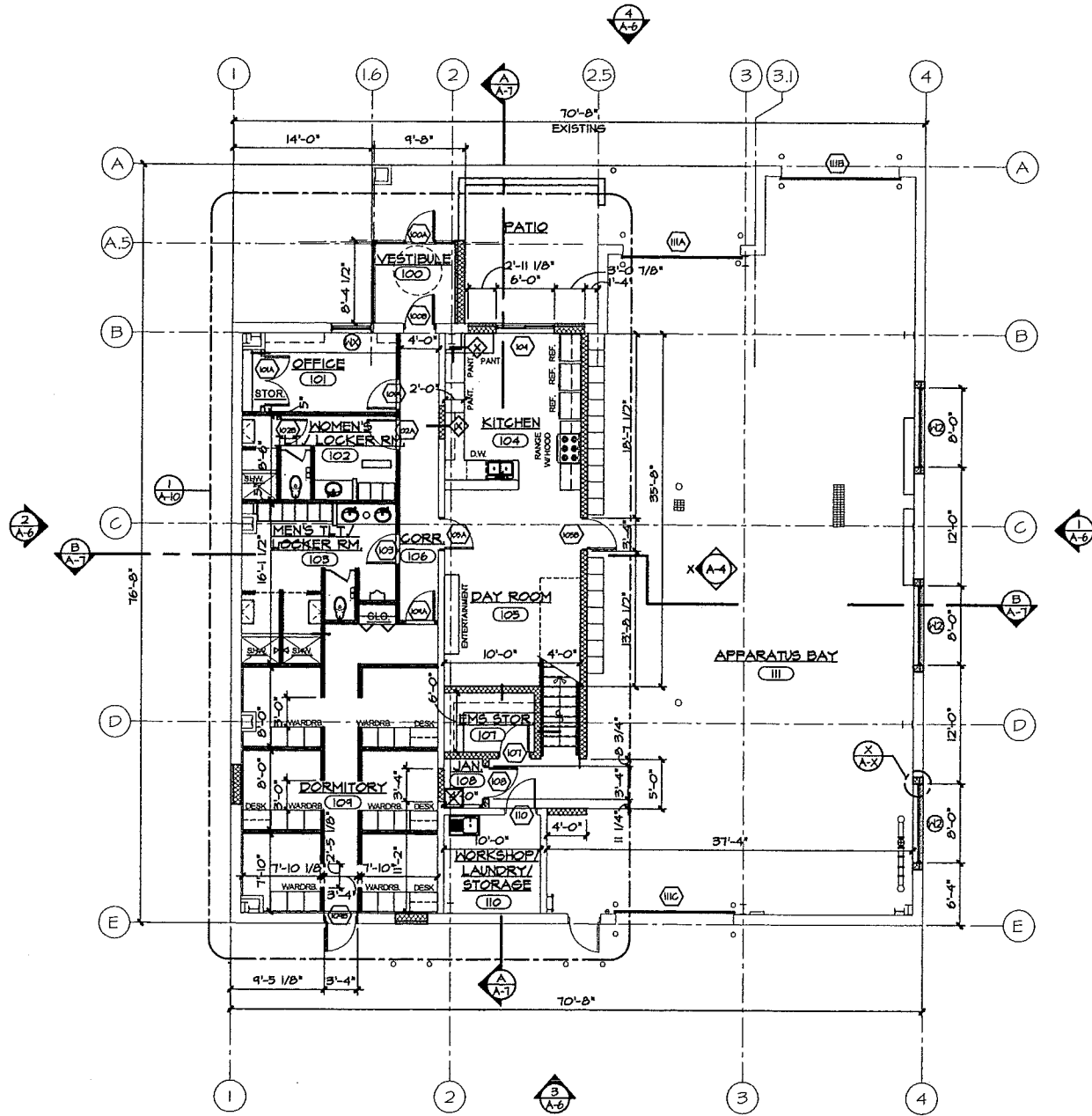
- A. PATCH AND/OR REPAIR ALL EXISTING FLOOR, WALL AND/OR CEILING FINISHES AS REQUIRED TO MATCH EXISTING OR TO ACCEPT NEW FINISHES AS SCHEDULED AT ALL AREAS AFFECTED BY THE DEMOLITION WORK. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- B. REFER TO DRAWING A-3 FOR ROOM FINISH SCHEDULE

**NEW WORK REFERENCED NOTES:**

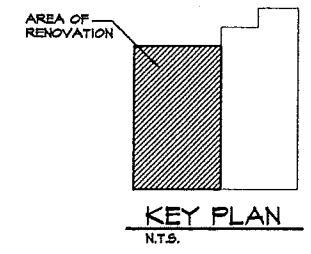
I x



**FLOOR PLAN - MEZZANINE**  
 SCALE 1/8" = 1'-0"



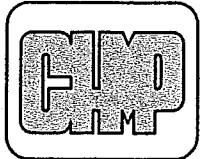
**FLOOR PLAN - NEW WORK**  
 SCALE 1/8" = 1'-0"



SITE AND BUILDING IMPROVEMENTS FOR:  
**CITY OF ROCHESTER HILLS**  
**FIRE STATION #3**  
 2137 W. AUBURN ROAD, ROCHESTER HILLS, MICHIGAN 48309

|                    |              |
|--------------------|--------------|
| PROJECT NO.        | 14005400     |
| DATE               | SEPT 8, 2014 |
| AS BUILT DATE      |              |
| DRAWN BY           | JTS          |
| CHECKED BY         | GNM          |
| SCALE              | AS NOTED     |
| ISSUED FOR:        | DATE         |
| SITE PLAN APPROVAL | NOV 17, 2014 |
| DESIGN DEVELOPMENT | DEC 11, 2014 |

SHEET NO.  
**A-1**  
 OF 2  
 CITY FILE - #14-018



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SITE AND BUILDING IMPROVEMENTS FOR:  
**CITY OF ROCHESTER HILLS**  
**FIRE STATION #3**  
 2137 W. AUBURN ROAD, ROCHESTER HILLS, MICHIGAN 48309

|                    |              |
|--------------------|--------------|
| PROJECT NO.        | 14003400     |
| DATE               | SEPT 8, 2014 |
| AS BUILT DATE      |              |
| DRAWN BY           | JTS          |
| CHECKED BY         | GNM          |
| SCALE              | AS NOTED     |
| ISSUED FOR:        | DATE         |
| SITE PLAN APPROVAL | NOV 17, 2014 |
| DESIGN DEVELOPMENT | DEC 11, 2014 |

