

CITY OF ANN ARBOR COMMUNITY SERVICES AREA LESLIE PARK GOLF COURSE GOLF CART STORAGE BUILDING - BID SET

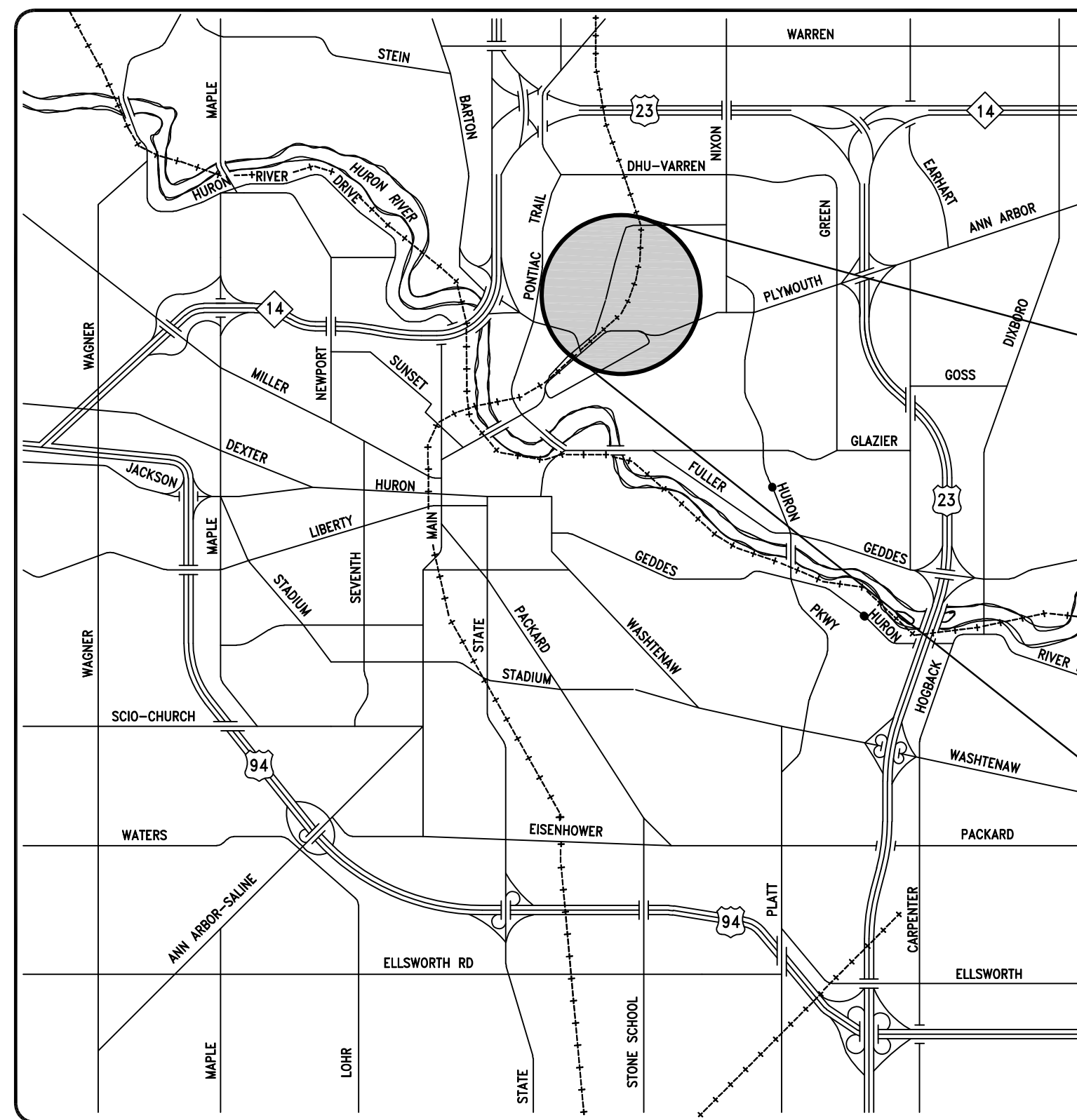
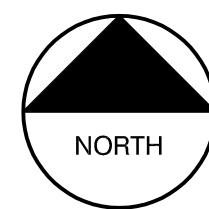
APRIL 2016
CITY ITB No. 4446

STANTEC FILE No. 2075135200 TASK 202

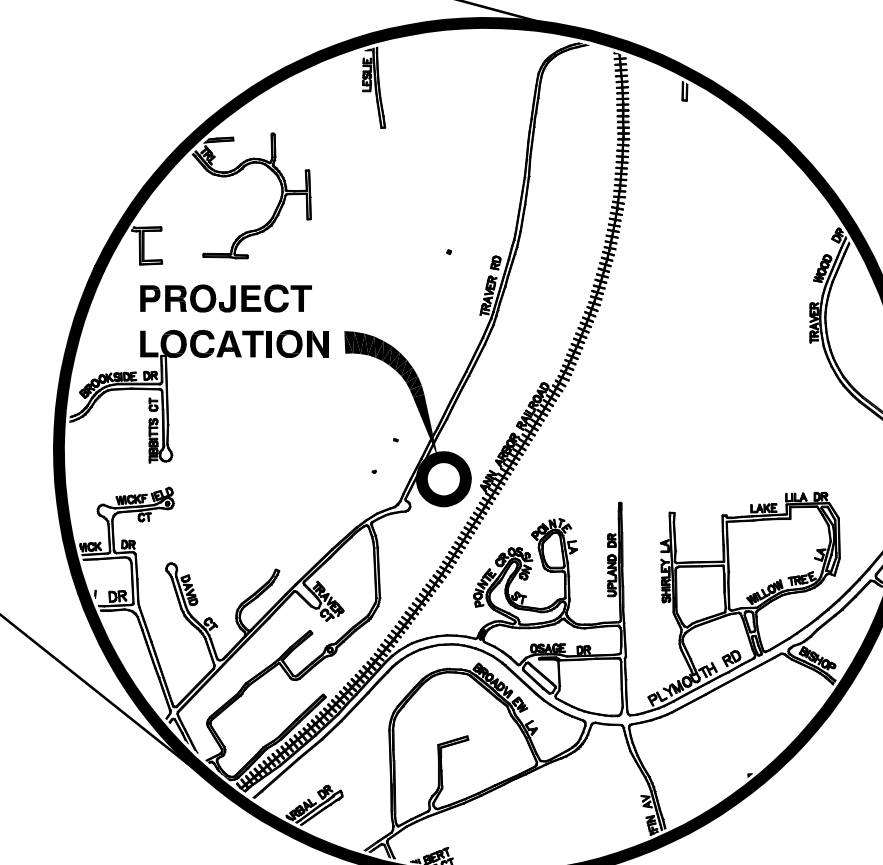
PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THESE PERMIT FEES.	
PERMIT	ISSUING AUTHORITY
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT
BUILDING PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT
ELECTRICAL PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT
PLUMBING PERMIT	CITY OF ANN ARBOR PLANNING AND DEVELOPMENT SERVICES UNIT

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16	E-102	ELECTRICAL WIRING DIAGRAMS AND SCHEDULES

THE FOLLOWING UTILITIES ARE LOCATED IN OR NEAR THE RIGHT-OF-WAY FOR THIS PROJECT		
PUBLIC UTILITIES	OWNER	CONTACT
WATER SEWER STORM	CITY OF ANN ARBOR COMMUNITY SERVICES AREA LARCUM CITY HALL 301 E. HURON ST. ANN ARBOR, MI 48104	DAN WOODEN (734) 794-6350 MARK COZART (734) 794-6350 MATT WALDSMITH (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6350
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 17150 ALLEN ROAD MELVINDALE, MI 48122	JAY WILLIAMS (313) 380-7303
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	BRIAN BERRY (734) 996-2135
PHONE	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

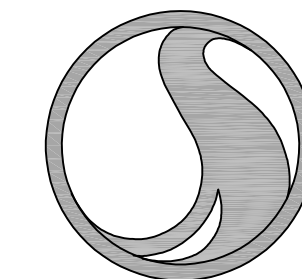


VICINITY MAP



LOCATION MAP

PREPARED BY:



Stantec Consulting Michigan Inc.
3754 Rancho Drive
Ann Arbor MI U.S.A.
48108-2771
Tel. 734.761.1010
Fax. 734.761.1200
www.stantec.com



Know what's Below.
CALL before you dig.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE.

THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

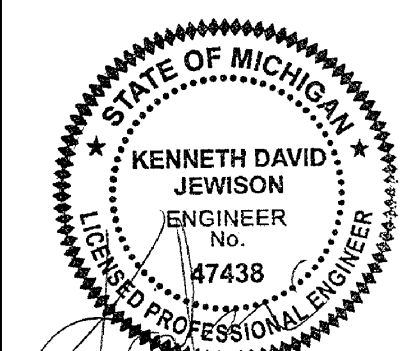
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

PREPARED UNDER THE SUPERVISION OF

KEN JEWISON, P.E., - MI LICENSE No. 47438
STANTEC, PROJECT MANAGER

04/28/2016

DATE



ENGINEER'S SEAL

CITY DEPARTMENTAL REVIEW							DRAWING No. 2075135200 - G-001
SURVEY	REVIEW ENGINEER	FIELD OPERATIONS	C.E.S. SUPERVISOR	TRAFFIC	SOIL EROSION	STORM WATER/FLOODPLAIN	
							SHEET No. 1 OF 16

PROJECT NAME: LESLIE PARK GOLF COURSE GOLF CART STORAGE BUILDING

V:\20751\active\2075135200\design\Leslie\135200_G-01.dwg Dwg Created: 10-Mar-16 - _a2_standard_bw.stb - Plot Date: 29-Apr-16

EXISTING WATER SYMBOLS	EXISTING MISC. SYMBOLS	EXISTING UTILITY LINETYPES
FIRE HYDRANT GATE VALVE IN BOX GATE VALVE IN WELL STOP BOX WATER VAULT WELL	UNKNOWN MANHOLE TELEPHONE MANHOLE TELEPHONE RISER GAS VALVE GAS VENT GAS BOX ELECTRICAL RISER TRANSFORMER UTILITY POLE LAMP POLE GUY ANCHOR GUY POLE MONITORING WELL MAILBOX SOIL BORING	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT BUILDING CONCRETE GRAVEL WETLAND
STORM SYMBOLS	EXISTING MISC. SYMBOLS	EXISTING UTILITY LINETYPES
CATCH BASIN (SO) CATCH BASIN (RD) STORM MANHOLE NON-CURB CATCH BASIN (SO)	UNKNOWN MANHOLE TELEPHONE MANHOLE TELEPHONE RISER GAS VALVE GAS VENT GAS BOX ELECTRICAL RISER TRANSFORMER UTILITY POLE LAMP POLE GUY ANCHOR GUY POLE MONITORING WELL MAILBOX SOIL BORING	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT BUILDING CONCRETE GRAVEL WETLAND
SANITARY SYMBOLS	EXISTING MISC. SYMBOLS	EXISTING UTILITY LINETYPES
SANITARY MANHOLE CLEAN-OUT	UNKNOWN MANHOLE TELEPHONE MANHOLE TELEPHONE RISER GAS VALVE GAS VENT GAS BOX ELECTRICAL RISER TRANSFORMER UTILITY POLE LAMP POLE GUY ANCHOR GUY POLE MONITORING WELL MAILBOX SOIL BORING	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT BUILDING CONCRETE GRAVEL WETLAND
VEGETATION SYMBOLS	EXISTING MISC. SYMBOLS	EXISTING UTILITY LINETYPES
TREE (DECIDUOUS) TREE (CONIFEROUS) STUMP SHRUB (DECIDUOUS)	UNKNOWN MANHOLE TELEPHONE MANHOLE TELEPHONE RISER GAS VALVE GAS VENT GAS BOX ELECTRICAL RISER TRANSFORMER UTILITY POLE LAMP POLE GUY ANCHOR GUY POLE MONITORING WELL MAILBOX SOIL BORING	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT BUILDING CONCRETE GRAVEL WETLAND
TRAFFIC SYMBOLS	SURVEY SYMBOLS	EXISTING UTILITY LINETYPES
POST PEDESTRIAN SIGNAL SIGN HAND HOLE ORNAMENTAL LIGHT FLOOD LIGHT	TRAVERSE POINT BENCH MARK IRON PIPE MON BOX	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT CONCRETE GRAVEL WETLAND

PROPOSED WATER SYMBOLS	PROPOSED UTILITY LINETYPES
HYDRANT (PROFILE) HYDRANT (PLAN) WATER GATE WELL WATER GATE VALVE WATER STOP BOX WATER VAULT	WATER MAIN STORM SEWER SANITARY SEWER MISC. LINETYPES BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD FENCE SILT FENCE LOT/UNIT PHASE LINE CURB TEMPORARY GRADING PERMIT WATER EASEMENT STORM EASEMENT SANITARY EASEMENT R.O.W. HATCHING ASPHALT CONCRETE SIDEWALK GRAVEL PAVEMENT/WALK REMOVAL CURB REMOVAL
STORM SYMBOLS	PROPOSED UTILITY LINETYPES
INLET DOUBLE INLET INLET JUNCTION CHAMBER ROUND CATCH BASIN STORM MANHOLE DRAIN ARROW FLARED END SECTION (PLAN) FLARED END SECTION (PROFILE)	WATER MAIN STORM SEWER SANITARY SEWER MISC. LINETYPES BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD FENCE SILT FENCE LOT/UNIT PHASE LINE CURB TEMPORARY GRADING PERMIT WATER EASEMENT STORM EASEMENT SANITARY EASEMENT R.O.W. HATCHING ASPHALT CONCRETE SIDEWALK GRAVEL PAVEMENT/WALK REMOVAL CURB REMOVAL
SANITARY SYMBOLS	PROPOSED UTILITY LINETYPES
SANITARY MANHOLE CLEAN-OUT	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT CONCRETE SIDEWALK GRAVEL PAVEMENT/WALK REMOVAL CURB REMOVAL
VEGETATION SYMBOLS	PROPOSED UTILITY LINETYPES
TREE (DECIDUOUS) TREE (CONIFEROUS)	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT CONCRETE SIDEWALK GRAVEL PAVEMENT/WALK REMOVAL CURB REMOVAL
TRAFFIC SYMBOLS	PROPOSED UTILITY LINETYPES
BARREL SIGN PUSH BUTTON DETECTABLE WARNING	WATER MAIN STORM SEWER SANITARY SEWER GAS MAIN MISC. LINETYPES BOUNDARY BUILDING CENTERLINE OF DITCH CENTERLINE OF ROAD EDGE OF WATER FENCE GRAVEL R.O.W. TREELINE WETLAND HATCHING ASPHALT CONCRETE SIDEWALK GRAVEL PAVEMENT/WALK REMOVAL CURB REMOVAL

SOIL EROSION CONTROL NOTES:

GENERAL:

- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE OWNER, PROJECT ENGINEER, OR THE CITY OF ANN ARBOR. THE CONTRACTOR IS REQUIRED TO OBTAIN A SOIL EROSION CONTROL PERMIT ANYTIME THE DISTURBED AREA EXCEEDS 1 ACRE.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CHAPTER 63, AND THE LAWS OF THE STATE OF MICHIGAN.
- DAILY OR AFTER STORM EVENTS INSPECTIONS SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE OWNER/PROJECT ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY AND WITHOUT ADDITIONAL COST TO THE OWNER.
- EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR WATERWAYS.
- ALL MUD/DIRT TRACKED ONTO ROADS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROPERTY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL EMPLOY A MECHANICAL STREET SWEEPER AT NO ADDITIONAL COST TO THE OWNER.
- RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE DONE WITHIN 5 DAYS OF THE COMPLETION OF FINAL GRADE.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
- SPECIAL PRECAUTIONS WILL BE TAKEN IN USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR CHLORIDE AS REQUIRED OR AS DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME UPON AUTHORIZED COMPLETION OF THE PROJECT. COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
- THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THEM.
- TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.
- CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING IN THE VICINITY OF THE PROPOSED STORM SEWER OUTLET SO AS TO AVOID CAUSING DAMAGE TO THE ADJACENT WETLAND AND POND AREA. ANY DAMAGE TO THE WETLAND OR POND SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN THE PRE-CONSTRUCTION CONDITION AT NO COST TO THE OWNER.

SEQUENCE OF EROSION CONTROL:

- INSTALL SILT FENCE, TREE PROTECTION FENCING AND INLET FILTERS ON EXISTING STORM INLETS PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- CONTRACTOR TO CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT.
- STRIP AND CLEAR - MAINTAIN EROSION CONTROL MEASURES AROUND TEMPORARY STOCK PILES.
- ROUGH GRADE.
- ENSURE ALL SOIL IS STABILIZED. REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES.

TEMPORARY SEEDING:

- SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
- ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

ROAD:

- DURING CONSTRUCTION, ALL ROADS SHALL BE PROTECTED FROM UNVEGETATED AREAS WASHING ONTO ROAD SURFACE BY PLACEMENT OF SILT FENCE BEHIND CURB OR A 10 FOOT WIDE STRAW MULCH BLANKET BEHIND CURB OR OTHER APPROVED METHOD AND/OR AS SHOWN ON THE PLANS.
- DURING CONSTRUCTION OF ANY PORTION OF THE PROJECT, ADJOINING ROADS SHALL BE MAINTAINED FREE OF DIRT, SILT AND CONSTRUCTION DEBRIS. CONTRACTOR REQUIRED TO USE VACUUM SWEEPER EQUIPMENT FOR CLEANING CONSTRUCTION SITE AND ADJOINING ROADS. THE USE OF BROOM SWEEPER IS NOT PERMITTED.

CATCH BASIN/MANHOLE PROTECTION:

- PROTECT STORM SEWER CATCH BASINS WITH APPROVED INLET FILTERS.

TRAFFIC CONTROL NOTES:

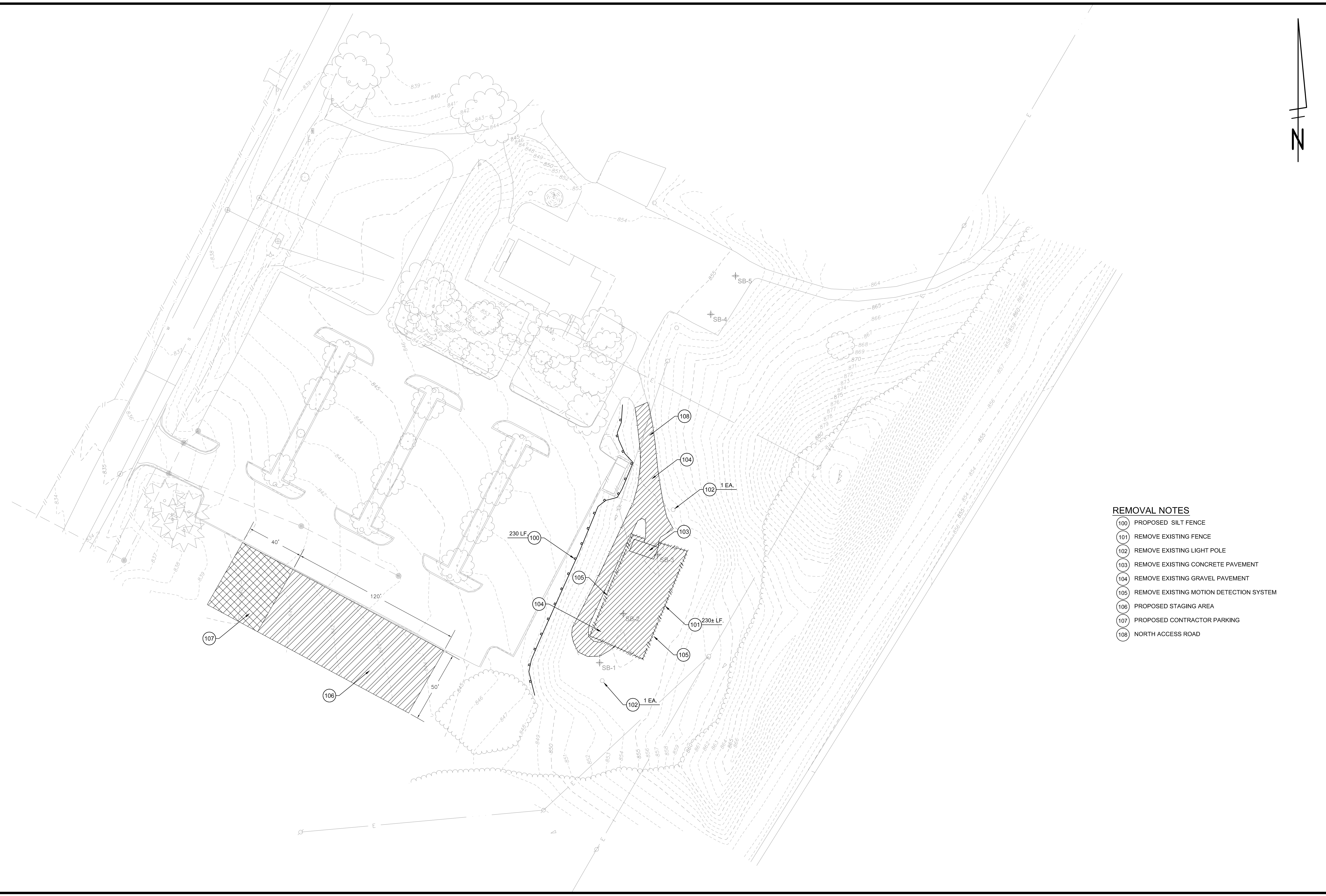
- THE CONTRACTOR SHALL GIVE ADVANCE NOTICE OF CONSTRUCTION TO THE CITY OF ANN ARBOR AT LEAST SEVEN (7) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY TRAFFIC CONTROLS AND PROTECTION DURING THE ENTIRE PERIOD OF CONSTRUCTION IN ACCORDANCE WITH THE LATEST REVISION OF THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND ANY SUPPLEMENTAL SPECIFICATIONS SET FORTH HEREIN.
- ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS, BARRICADES, PLASTIC DRUMS, AND WARNING LIGHTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.
- CONSTRUCTION EQUIPMENT AND EXCAVATING MATERIAL SHALL NOT BE STOCK PILED IN SUCH LOCATIONS THAT IT CREATES A TRAFFIC HAZARD OR INTERFERES WITH THE FLOW OF TRAFFIC.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING ROAD SIDE DRAINAGE DITCHES, DRAINS, CULVERTS AND DRAINAGE STRUCTURES DURING CONSTRUCTION. ANY ROADWAY DRAINAGE FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION INCLUDING GRADE, WIDTH, SIDE SLOPES, PIPE MATERIAL, ETC.
- CONTRACTOR SHALL MAINTAIN ACCESS ACROSS COMMERCIAL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PLACE MAINTENANCE AGGREGATES AND/OR TEMPORARY BITUMINOUS PATCHING MIXTURE AS NECESSARY. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES (POLICE, FIRE, AMBULANCE, ETC.), MAIL CARRIERS AND SCHOOL BUSES TO PASS THROUGH WORK AREAS AT ALL TIMES. ANY COMPLETED WORK THAT IS DAMAGED BY SUCH VEHICLES SHALL BE REPAIRED OR REMOVED AND REPLACED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- TRAFFIC CONTROL AT THE MUD TRACKING MAT SHALL BE INSTALLED PER MMUTCD AND CITY OF ANN ARBOR STANDARDS. COST SHALL BE INCIDENTAL.

GENERAL CONSTRUCTION NOTES (ALL SHEETS):


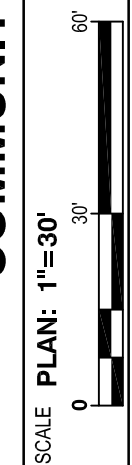
- TAKE ALL PRECAUTIONS TO SUPPORT EXISTING UTILITY POLES. COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO MINIMIZE SCHEDULE DELAY.
- COMPLETE ALL WORK IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES, RULES AND REGULATIONS. OBTAIN ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS AND PAY PERMIT FEES FOR THE WORK OR CONFIRM THAT THE REQUIRED PERMITS HAVE BEEN OBTAINED BY OTHERS PRIOR TO COMMENCING CONSTRUCTION.
- ALL ITEMS INCIDENTAL TO AND/OR REQUIRED TO COMPLETE THE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- RESTORE ALL DISTURBED AREAS NOT RECEIVING RIPRAP WITH 4-INCHES OF TOPSOIL AND MULCH BLANKET.
- RESTORE ALL STREET SURFACES, DRIVEWAYS, STAGING AREAS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL OR BETTER THAN EXISTING CONDITIONS.
- ALL REMOVED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE DRAWINGS. CLEANUP AND DISPOSE OF ALL EXCESS MATERIALS OFF SITE IN ACCORDANCE WITH LOCAL REGULATIONS.
- PROTECT TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PROTECT EXISTING SITE IMPROVEMENTS AND LANDSCAPING FROM DAMAGE. RESTORE/REPLACE ALL DAMAGED IMPROVEMENTS AND LANDSCAPING TO THEIR ORIGINAL CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BYPASSING ALL STORMWATER FLOW DURING CONSTRUCTION.

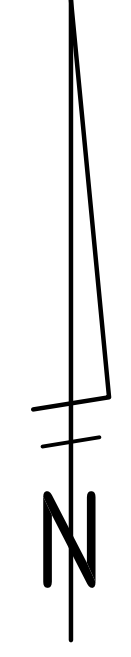
NOT ALL SYMBOLS ARE USED

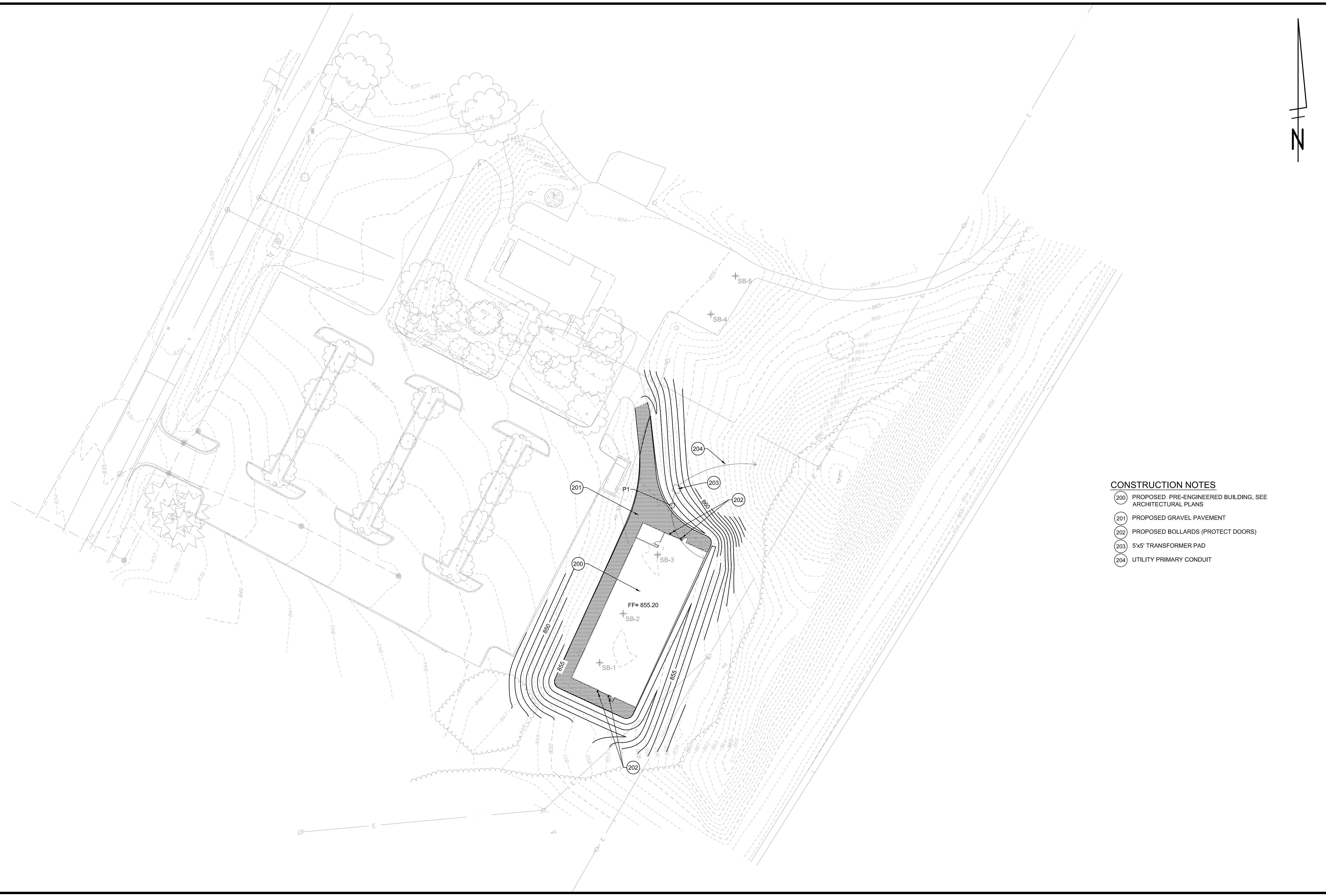
PREPARED BY: Strategic Consulting Michigan Inc. 3754 Research Park Drive Ann Arbor MI U.S.A. 48108-2216 Tel: 248-761-1010 Fax: 734-761-0060 www.sstamc.com	2 BID SET 04.27.2016 90% REVIEW SET 03.21.2016 DATE
COMMUNITY SERVICES AREA - CITY OF ANN ARBOR LESLIE PARK GOLF COURSE GOLF CART STORAGE BUILDING	NONE 2075135200 C-001
SCALE SHEET No.	GENERAL NOTES AND LEGEND 2 OF 16



- REMOVAL NOTES**
- (100) PROPOSED SILT FENCE
 - (101) REMOVE EXISTING FENCE
 - (102) REMOVE EXISTING LIGHT POLE
 - (103) REMOVE EXISTING CONCRETE PAVEMENT
 - (104) REMOVE EXISTING GRAVEL PAVEMENT
 - (105) REMOVE EXISTING MOTION DETECTION SYSTEM
 - (106) PROPOSED STAGING AREA
 - (107) PROPOSED CONTRACTOR PARKING
 - (108) NORTH ACCESS ROAD

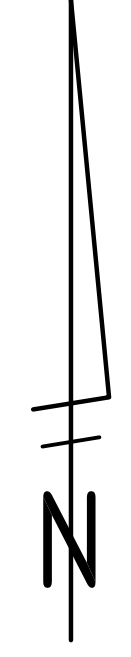
		COMMUNITY SERVICES AREA - CITY OF ANN ARBOR LESLIE PARK GOLF COURSE GOLF CART STORAGE BUILDING EXISTING CONDITIONS AND DEMOLITION PLAN	
SCALE PLAN: 1"=30' DRAWING No. 2075135200		SHEET No. C-101	
PREPARED BY: Stattek Consulting Michigan Inc. 3754 Research Park Drive Ann Arbor MI U.S.A. 48108-2216 Tel. 734-761-1010 Fax 734-761-0000 www.stattek.com			
		2 BID SET 1 90% REVIEW SET	DATE 04.27.2016 03.21.2016
		BWA BWA BWA	DRAWN DRAWN DRAWN
		N/W N/W	CHECKED CHECKED
3 OF 16			





CONSTRUCTION NOTES

- (200) PROPOSED PRE-ENGINEERED BUILDING, SEE ARCHITECTURAL PLANS
- (201) PROPOSED GRAVEL PAVEMENT
- (202) PROPOSED BOLLARDS (PROTECT DOORS)
- (203) 5'x5' TRANSFORMER PAD
- (204) UTILITY PRIMARY CONDUIT

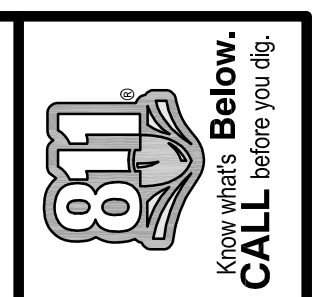


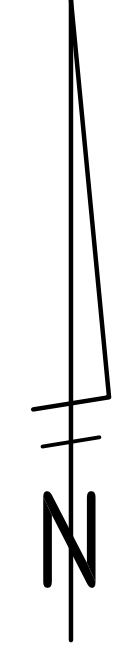
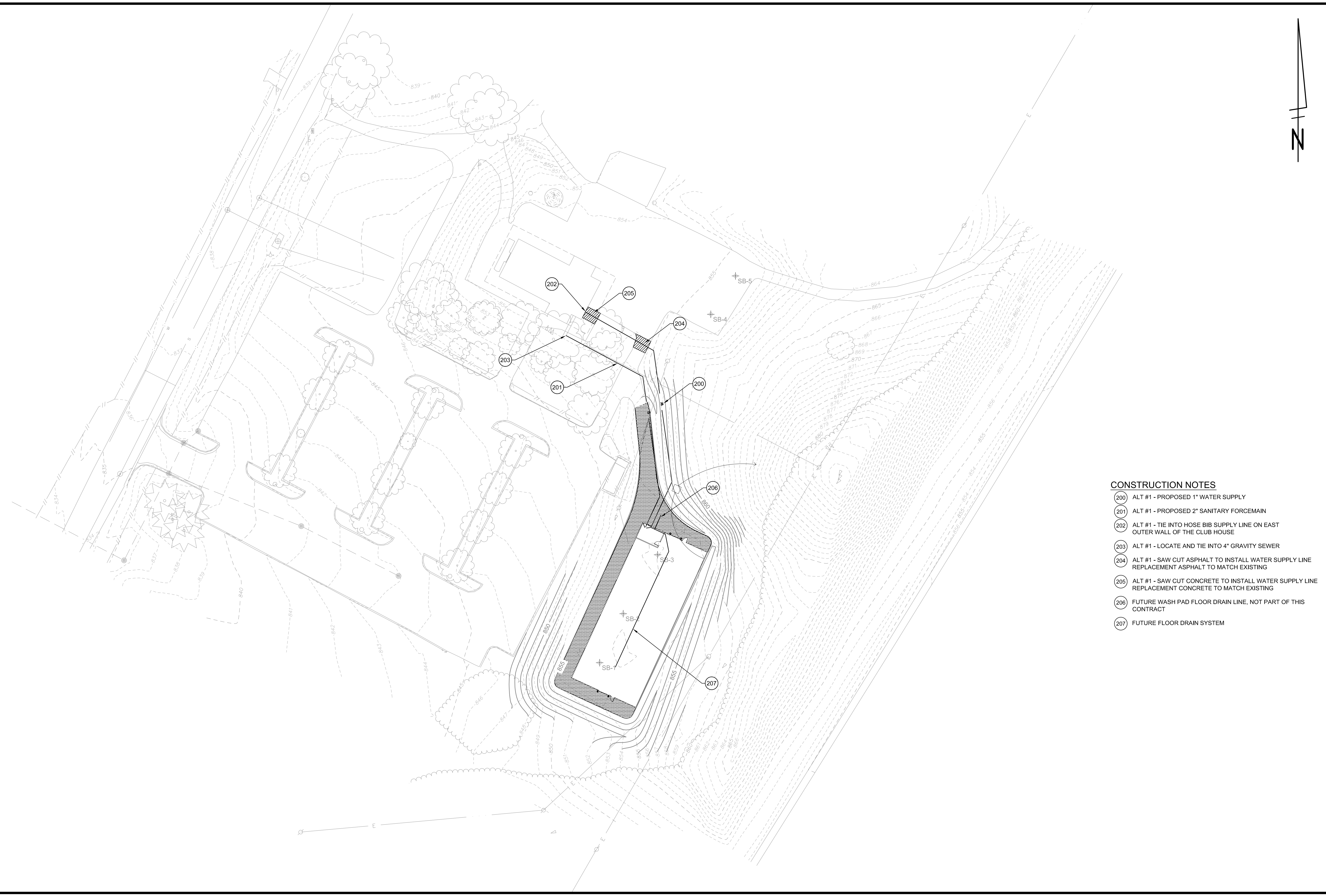
COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
 CIVIL SITE PLAN




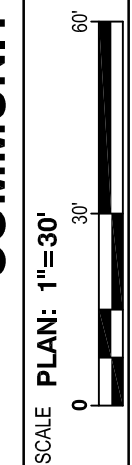
PREPARED BY:
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 www.stattek.com

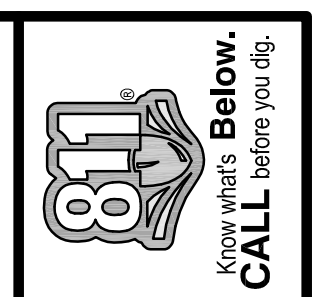
REV.	DESCRIPTION	DATE	BY	CHECKED
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1	90% REVIEW SET	03.21.2016	BWA	BWA

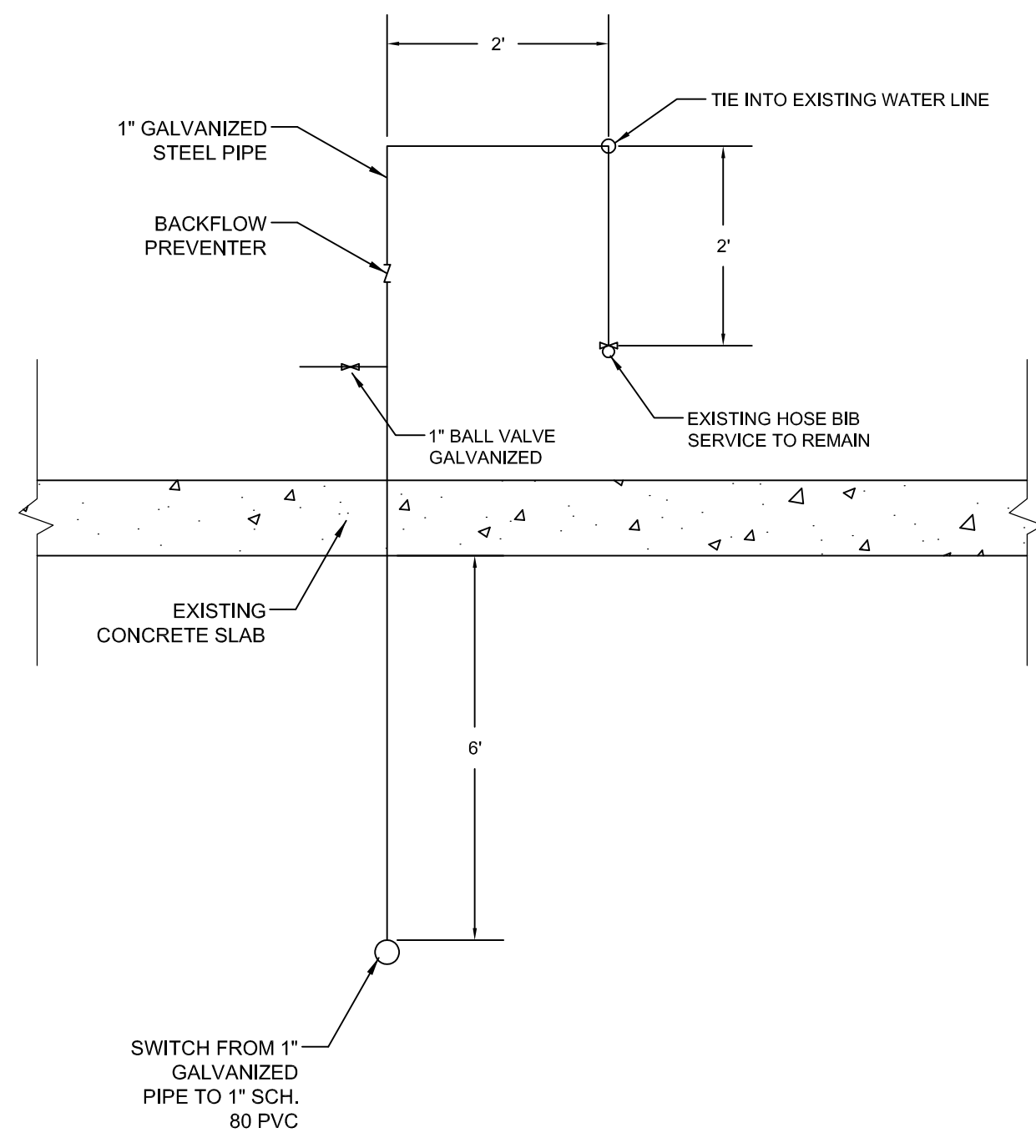




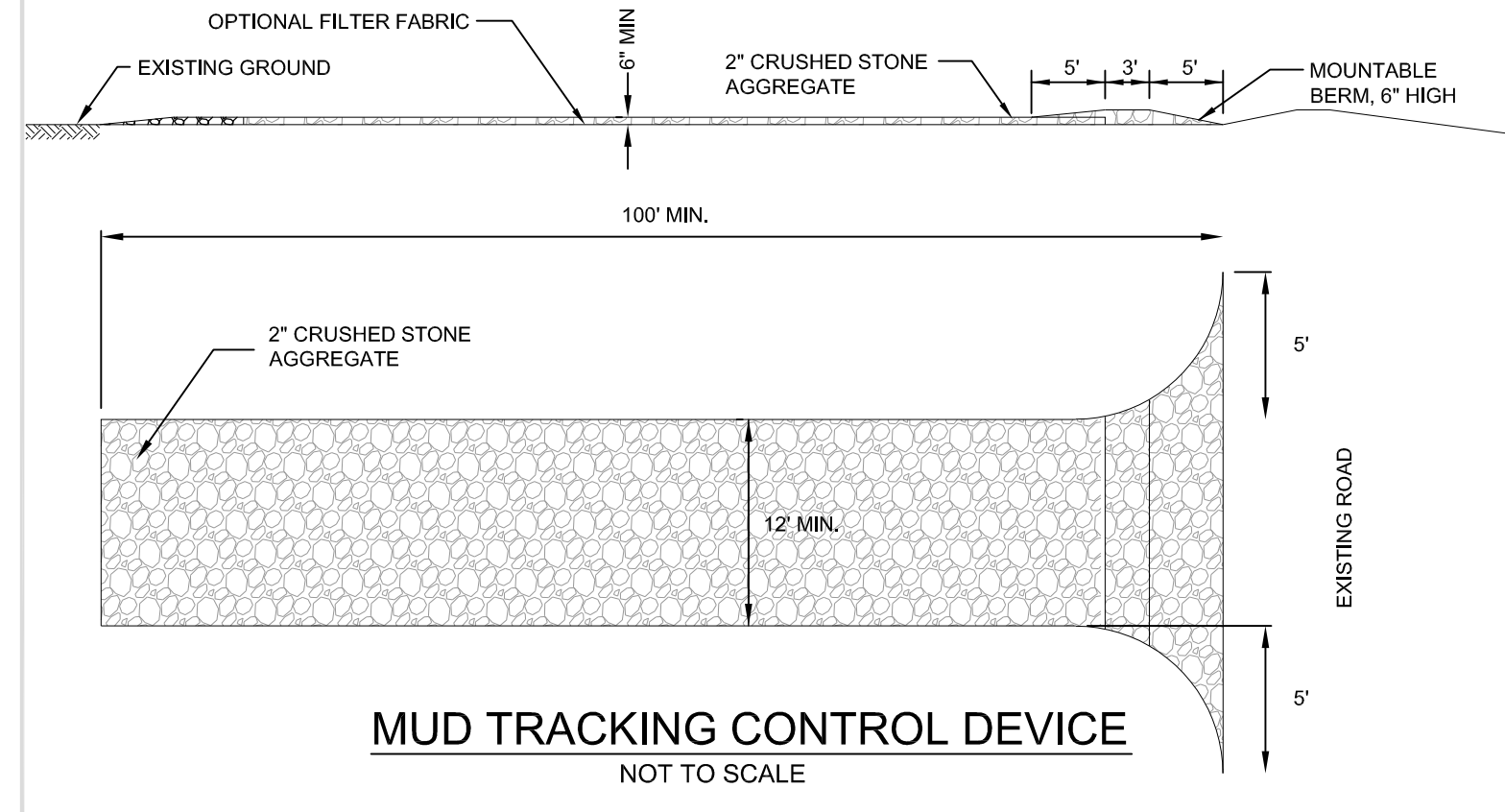
- CONSTRUCTION NOTES**
- 200 ALT #1 - PROPOSED 1" WATER SUPPLY
 - 201 ALT #1 - PROPOSED 2" SANITARY FORCEMAIN
 - 202 ALT #1 - TIE INTO HOSE BIB SUPPLY LINE ON EAST OUTER WALL OF THE CLUB HOUSE
 - 203 ALT #1 - LOCATE AND TIE INTO 4" GRAVITY SEWER
 - 204 ALT #1 - SAW CUT ASPHALT TO INSTALL WATER SUPPLY LINE REPLACEMENT ASPHALT TO MATCH EXISTING
 - 205 ALT #1 - SAW CUT CONCRETE TO INSTALL WATER SUPPLY LINE REPLACEMENT CONCRETE TO MATCH EXISTING
 - 206 FUTURE WASH PAD FLOOR DRAIN LINE, NOT PART OF THIS CONTRACT
 - 207 FUTURE FLOOR DRAIN SYSTEM

		COMMUNITY SERVICES AREA - CITY OF ANN ARBOR LESLIE PARK GOLF COURSE GOLF CART STORAGE BUILDING BID ALT #1 - WATER AND SANITARY SERVICE EXTENSION	
SCALE PLAN: 1"=30' SHEET No.		DRAWING No. 2075135200	C-103
PREPARED BY: Stattek Consulting Michigan Inc. 3754 Research Park Drive Ann Arbor MI U.S.A. 48108-2216 Tel. 734-761-1010 Fax 734-761-0000 www.stattek.com		REV. DESCRIPTION DATE DRAWN CHECKED	
		2 BID SET 04.27.2016 BWA NJW	1 90% REVIEW SET 03.21.2016 BWA NJW
5 OF 16			

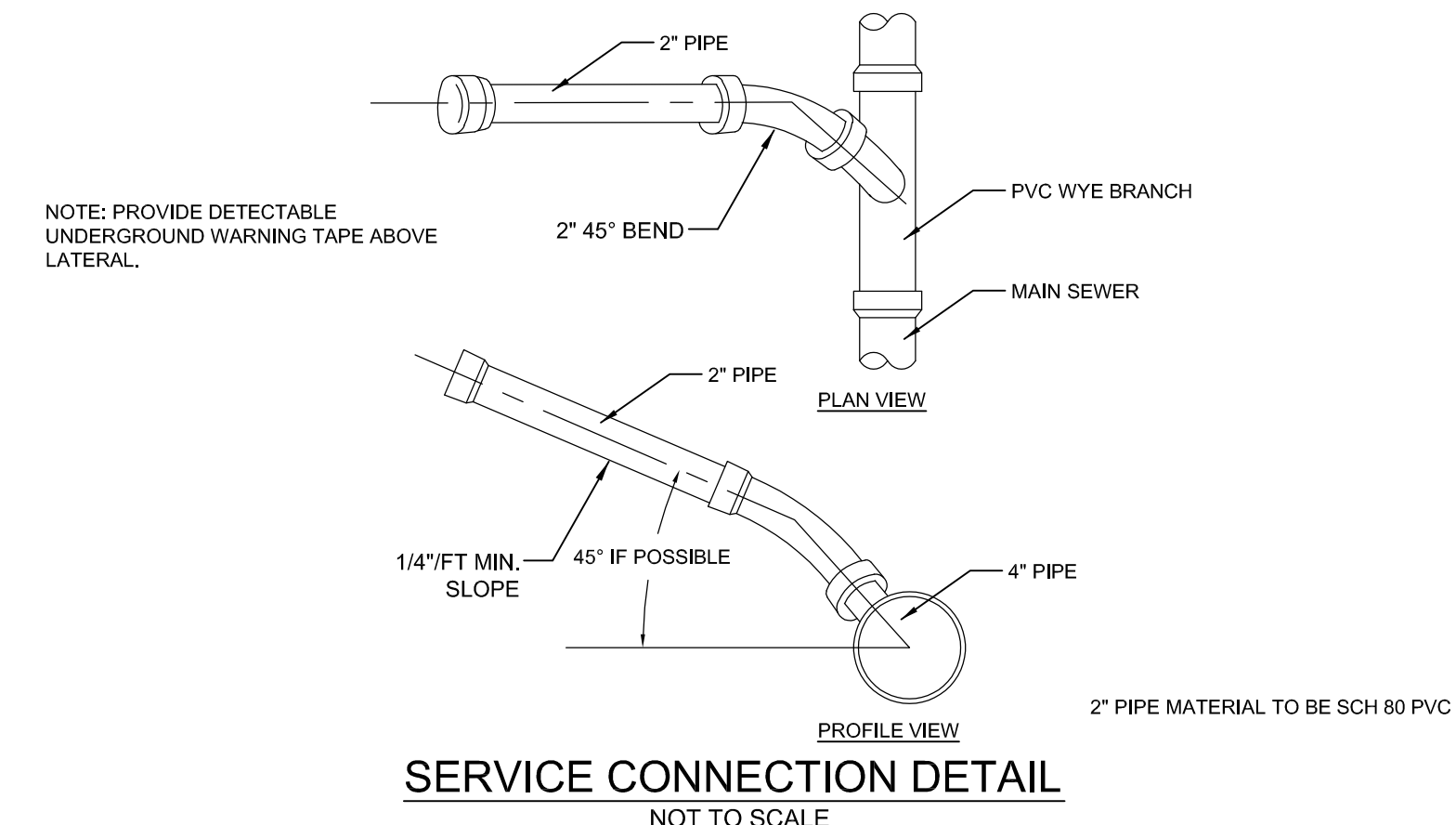




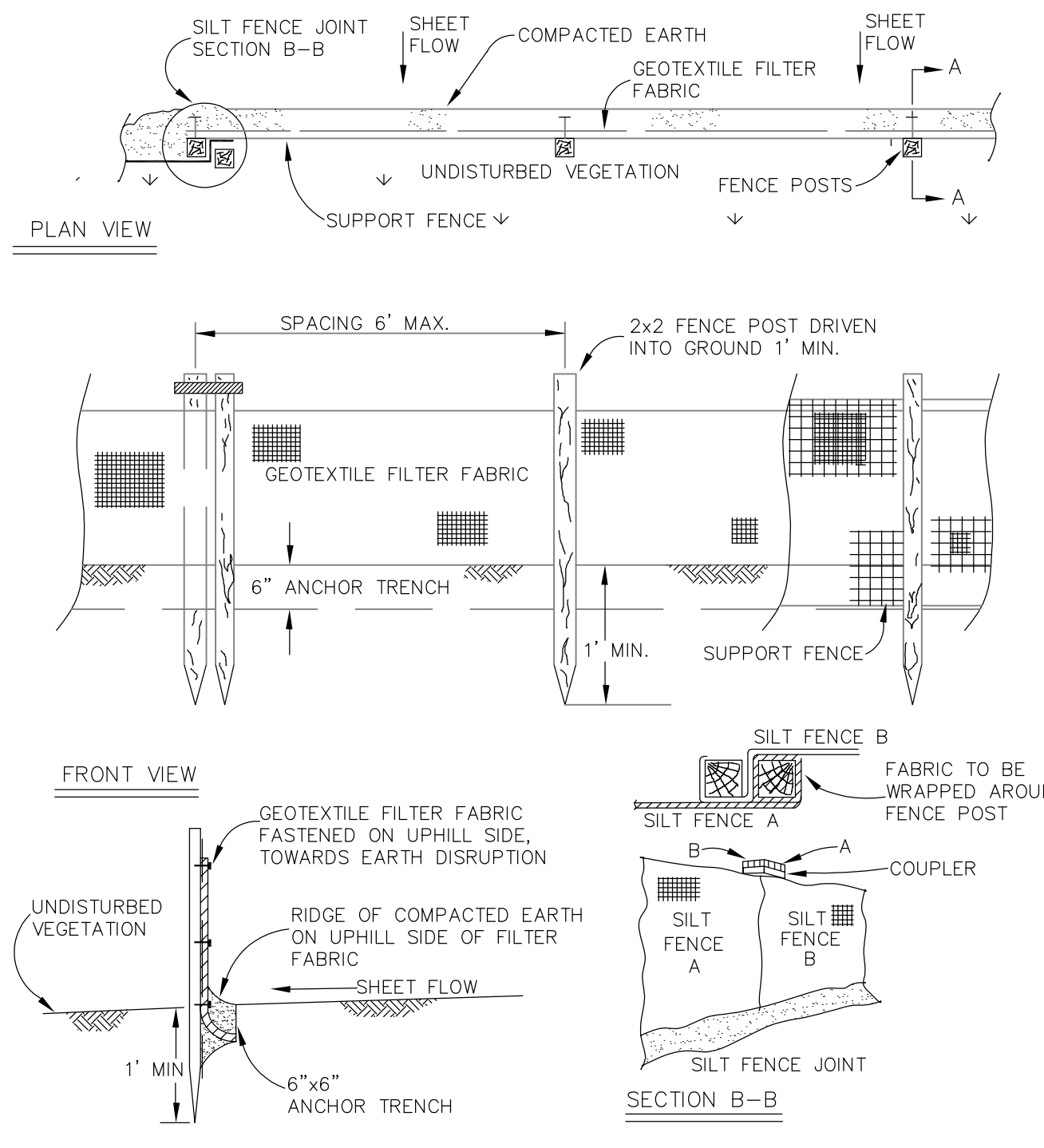
WATER SERVICE TIE-IN AT CLUB HOUSE DETAIL
NOT TO SCALE



MUD TRACKING CONTROL DEVICE
NOT TO SCALE

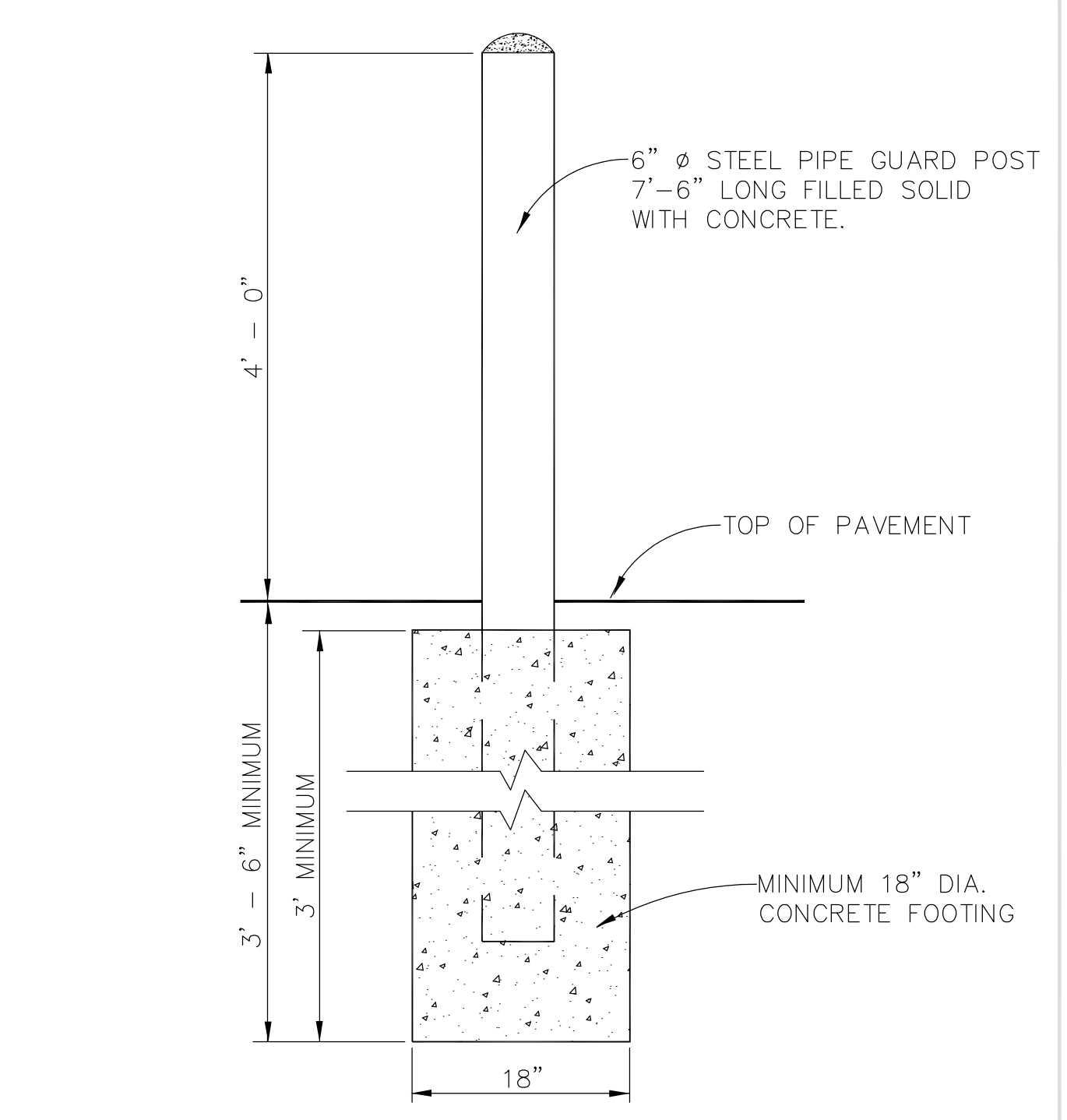


SERVICE CONNECTION DETAIL
NOT TO SCALE



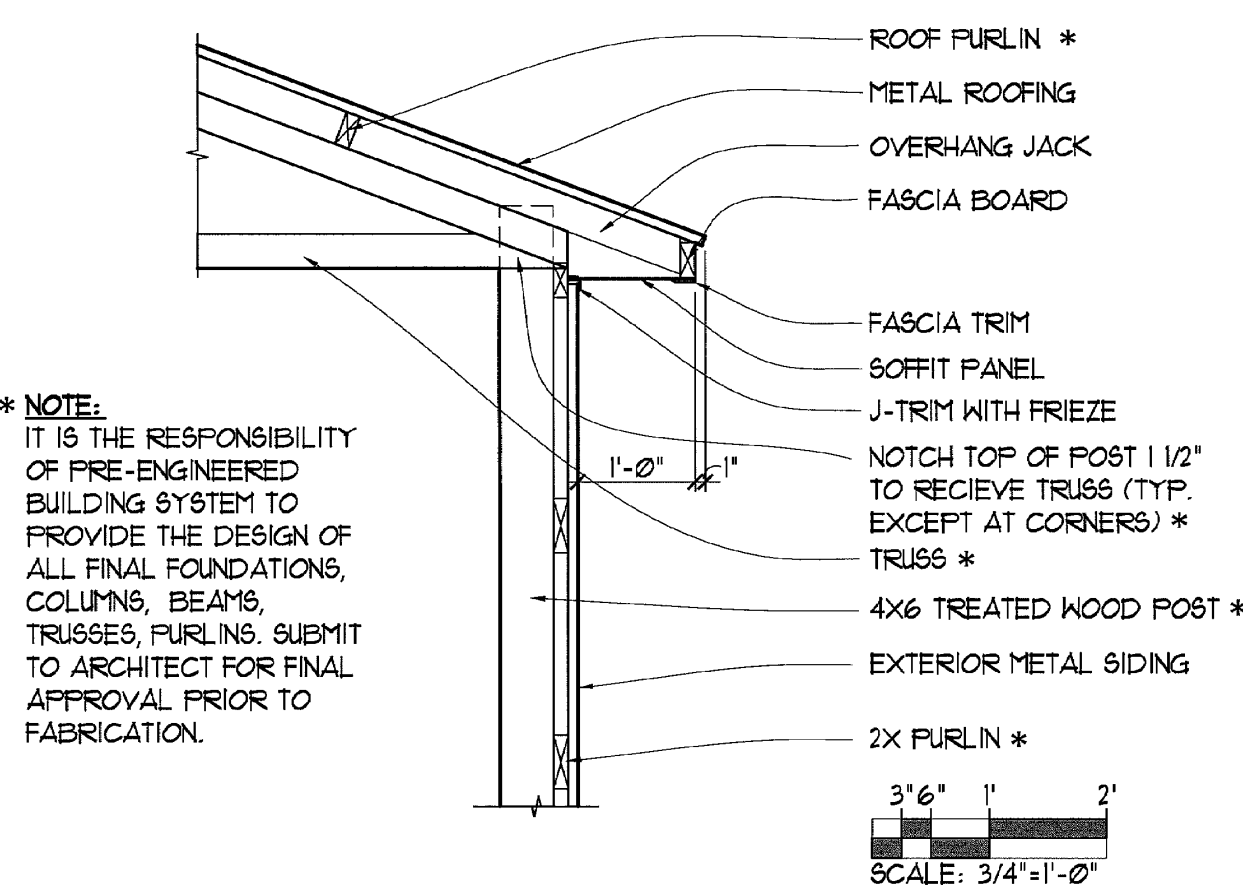
REVISIONS				
REV. NO.	DR. BY	CH. BY	DATE	DESCRIPTION

DR. BY	DF/SMJ	CH. BY	CSS/DF	DRAWING NO.
SCALE	NONE	DATE	11-6-92	SD-EC-3
INCH		SHEET NO.		

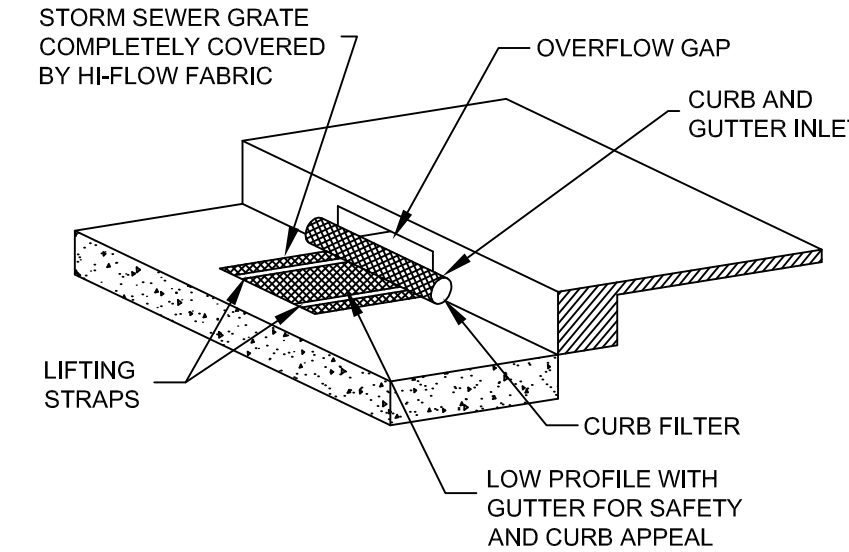


REVISIONS				
REV. NO.	DR. BY	CH. BY	DATE	DESCRIPTION

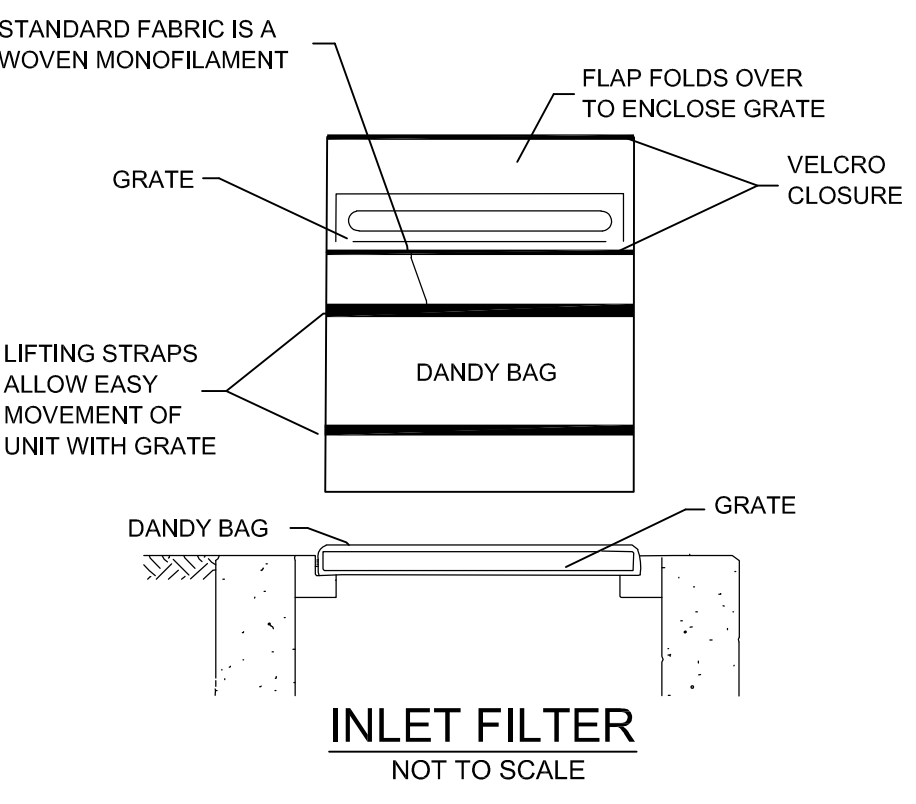
DR. BY	D.F.	CH. BY	C.S.S.	DRAWING NO.
SCALE	NONE	DATE	9-1-93	SD-M-4
INCH		SHEET NO.		



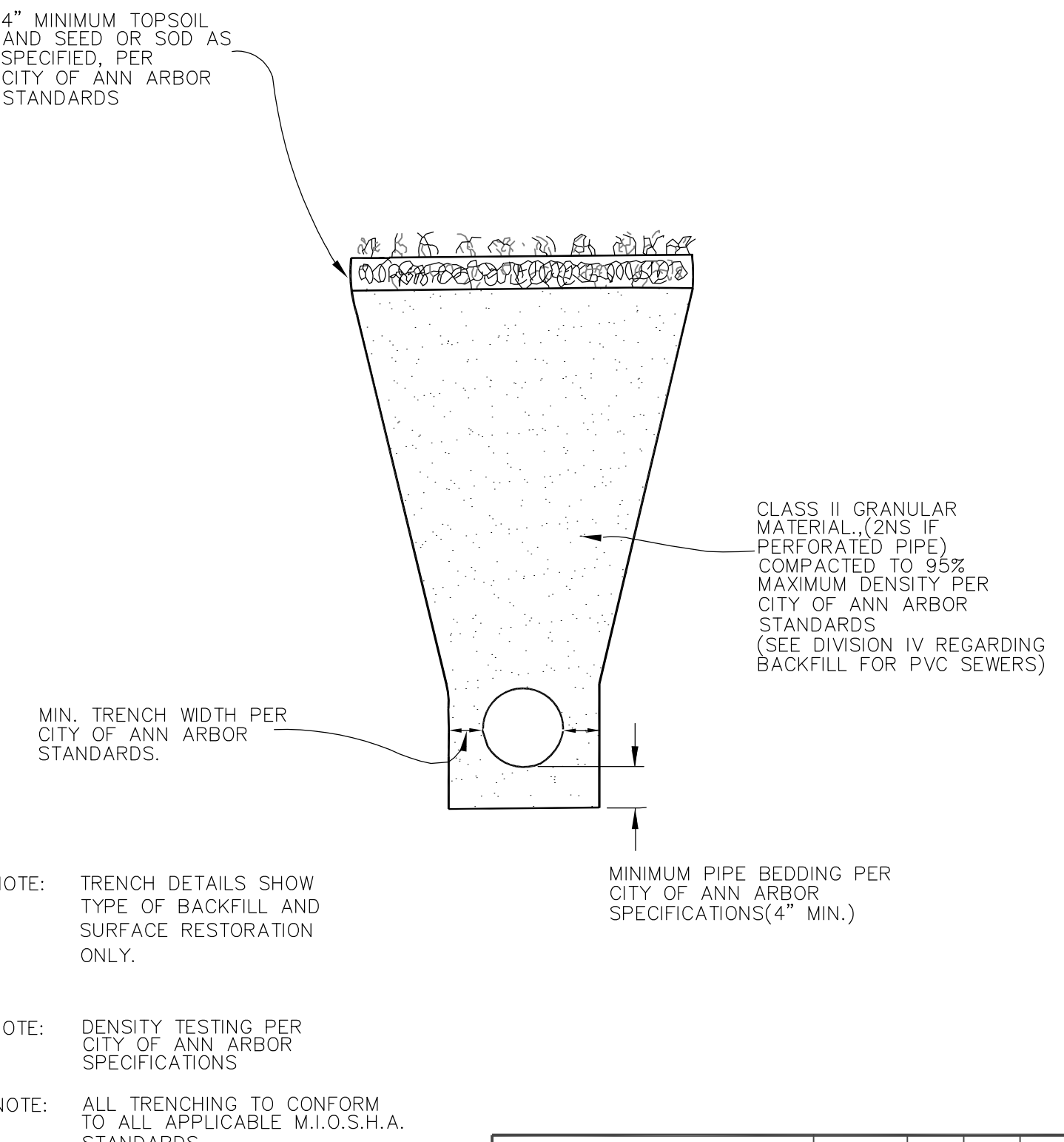
TYPICAL POLE BARN WALL SECTION



NOTE:
TO INSURE PROPER OPERATION REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR. REMOVE FINE MATERIAL FROM INSIDE DANDY BAG AS NEEDED. DISPOSE OF DANDY BAG NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY. TO INSPECT INLET, REMOVE DANDY BAG WITH GRATE INSIDE. INSPECT CATCH BASIN AND REPLACE DANDY BAG BACK INTO GRATE FRAME.

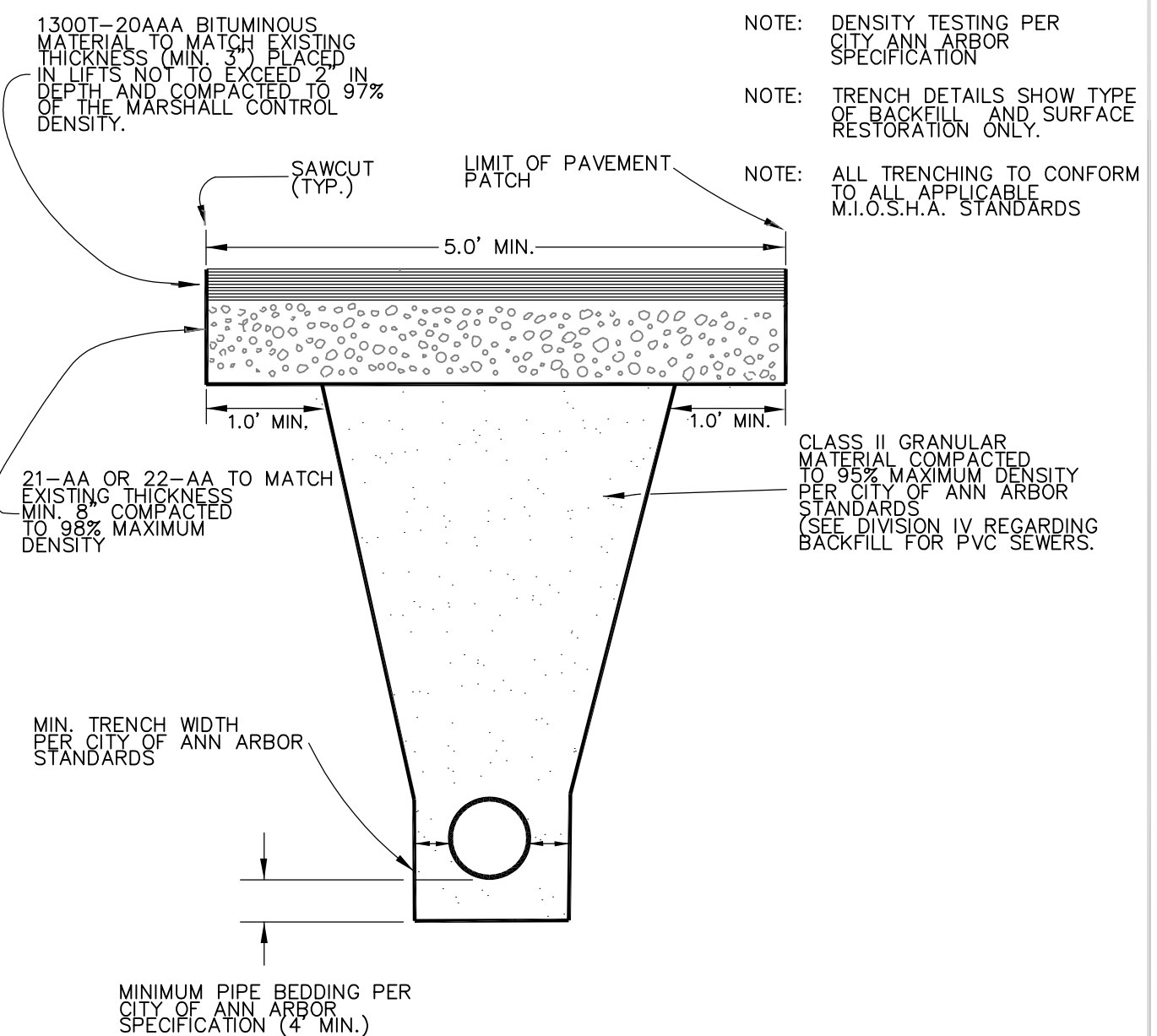


INLET FILTER
NOT TO SCALE



REVISIONS				
REV. NO.	DR. BY	CH. BY	DATE	DESCRIPTION

DR. BY	DF	CH. BY	CSS	DRAWING NO.
SCALE	NONE	DATE	11-6-92	SD-TD-6
INCH		SHEET NO.		



REVISIONS				
REV. NO.	DR. BY	CH. BY	DATE	DESCRIPTION

DR. BY	DF	CH. BY	CSS	DRAWING NO.
SCALE	NONE	DATE	11-6-92	SD-TD-1
INCH		SHEET NO.		

COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
CIVIL DETAILS

PREPARED BY:
Stantec Consulting, Michigan Inc.
3754 Research Park Drive
Ann Arbor MI U.S.A.
48108-2216
Tel: 734-761-1000
Fax: 734-761-0000
www.stantec.com

DATE: 04.27.2016
REV. DATE: 03.21.2016

DESCRIPTION:
2 BID SET
1 90% REVIEW SET

SCALE: NONE
DRAWING NO.: 2075135200
SHEET NO.: C-501

REVISIONS:
REV. NO. DR. BY CH. BY DATE

PUBLIC SERVICES DEPARTMENT
CITY OF ANN ARBOR

UTILITY TRENCH - TYPE VI
(IN GREENBELT AREA REQUIRING CLASS II BACKFILL)

UTILITY TRENCH - TYPE I
(UNDER BITUMINOUS SURFACE)

DR. BY: DF
SCALE: NONE
DATE: 11-6-92
DRAWING NO.: SD-TD-1
SHEET NO.:

DR. BY: D.F.
SCALE: NONE
DATE: 9-1-93
DRAWING NO.: SD-M-4
SHEET NO.:

ANN ARBOR MICHIGAN

6 OF 16

GENERAL FLOOR PLAN NOTES:

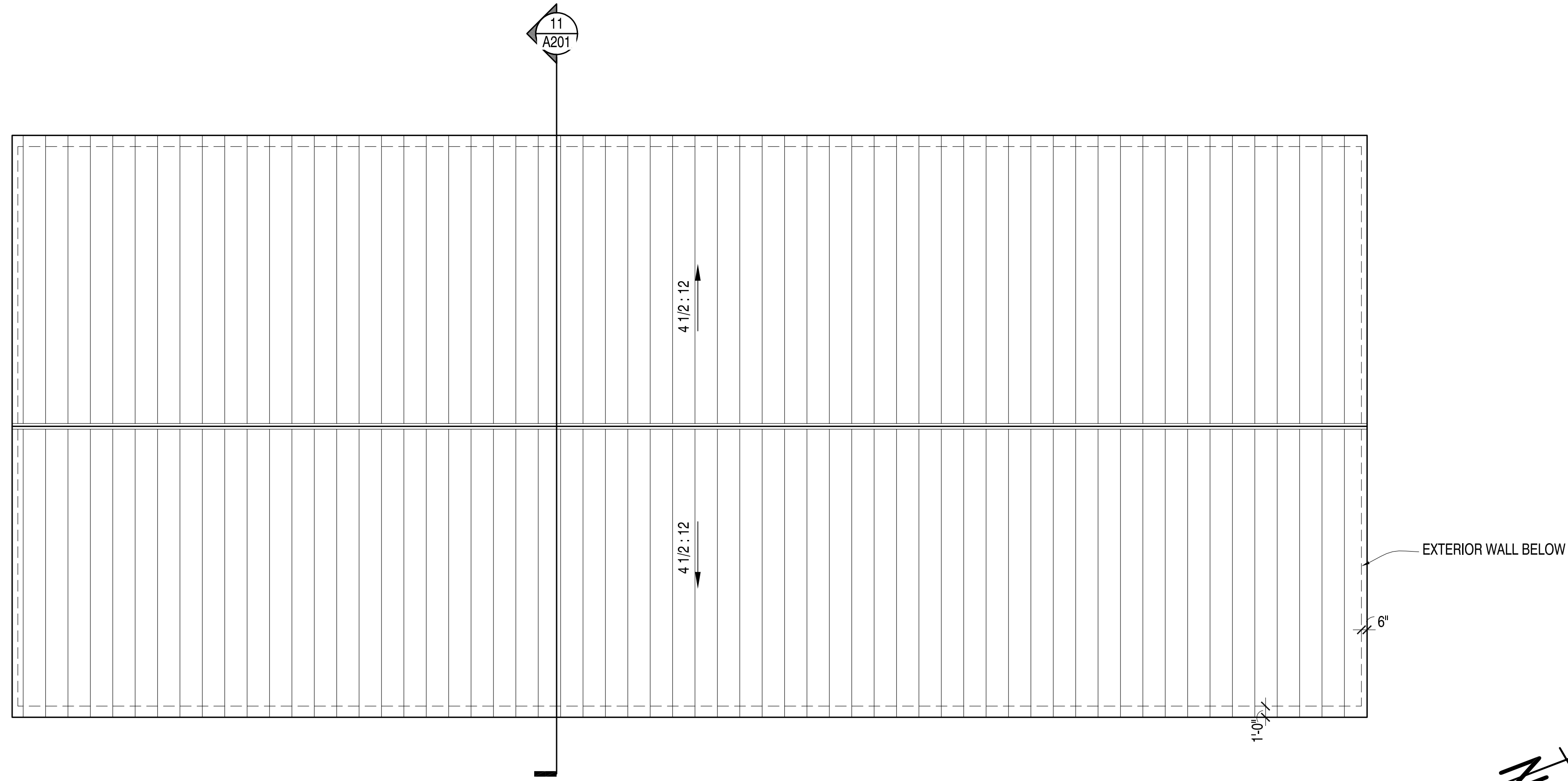
- A. GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
- B. COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AND WITH CONSTRUCTION PHASING SEQUENCE AS INCLUDED WITHIN GENERAL DEMOLITION NOTES LOCATED ELSEWHERE.
- C. ALL INTERIOR PARTITION DIMENSIONS ARE TO FINISH FACE, UNO.
- D. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR SUPPLYING MATERIALS OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.

NEW WORK PLAN KEYED NOTES:

- 1 WOOD POST AND PRE-ENGINEERED TRUSS BUILDING WITH METAL SIDING AND METAL ROOFING ON PURLINS AT 4'-0" O.C. ON WOOD TRUSSES AT 8'-0" O.C., SEE SPECIFICATION.
- 2 OVERHEAD METAL DOOR WITH PULL CHAIN BY WOOD POST AND PRE-ENGINEERED TRUSS BUILDING MANUFACTURER. PROVIDE DOOR HARDWARE MEETING ADA REQUIREMENTS AND READY TO ACCEPT SCHLAGE CORE.
- 3 METAL MAN DOOR AND FRAME, BY WOOD POST AND PRE-ENGINEERED TRUSS BUILDING MANUFACTURER. PROVIDE DOOR HARDWARE MEETING ADA REQUIREMENTS AND READY TO ACCEPT SCHLAGE CORE.
- 4 COMPACTED CRUSHED GRAVEL FLOOR.
- 5 5/8" GYPSUM BOARD BOTH SIDES OF 3 5/8" METAL STUDS AT 18" O.C. FROM FLOOR TO UNDERSIDE OF TRUSS.
- 6 INSTALL 5/8" GYPSUM BOARD ON PURLINS AT 24" O.C. TO THE UNDERSIDE OF TRUSSES.
- 7 BOLLARD.
- 8 PLUMBING FIXTURE, SEE MECHANICAL
- 9 3/4" PLYWOOD ON WOOD 2x4 STUDS AT 18" O.C. FOR THE INSTALLATION OF ELECTRICAL PANELS, SEE ELECTRICAL.
- 10 6" CONCRETE SLAB ON GRADE, SEE STRUCTURAL.
- 11 EJECTOR PUMP PIT, SEE MECHANICAL.
- 12 EROSION CONTROL FABRIC UNDERNEATH LOOSE AGGREGATE FROM BUILDINGS EDGE 18" AWAY.

BID ALTERNATES:

ADD ALTERNATE: PROVIDE 3" TRANSLUCENT PANELS (EAVE LIGHTS) FULL LENGTH OF THE BUILDING AT 8'-0" AFF ON BOTH EAST AND WEST ENDS.



PLAN NOTES

NO SCALE	12
REF'D FROM: TS	

ROOF PLAN

SCALE: 1/8"=1'-0"	9
REF'D FROM:	

APPLICABLE CODES:

- ARCHITECTURAL: 2012 MICHIGAN BUILDING CODE
- MECHANICAL: 2012 MICHIGAN MECHANICAL CODE
- PLUMBING: 2012 MICHIGAN PLUMBING CODE
- ELECTRICAL: 2014 MDLARA ELECTRICAL CODE RULES (PART 8) INCORPORATING THE 2014 NATIONAL ELECTRIC CODE
- ACCESSIBILITY: 2012 MICHIGAN BUILDING CODE AND ICC/ANSI A117.1 2009

USE GROUP:

MBC - 'U'

CONSTRUCTION TYPE:

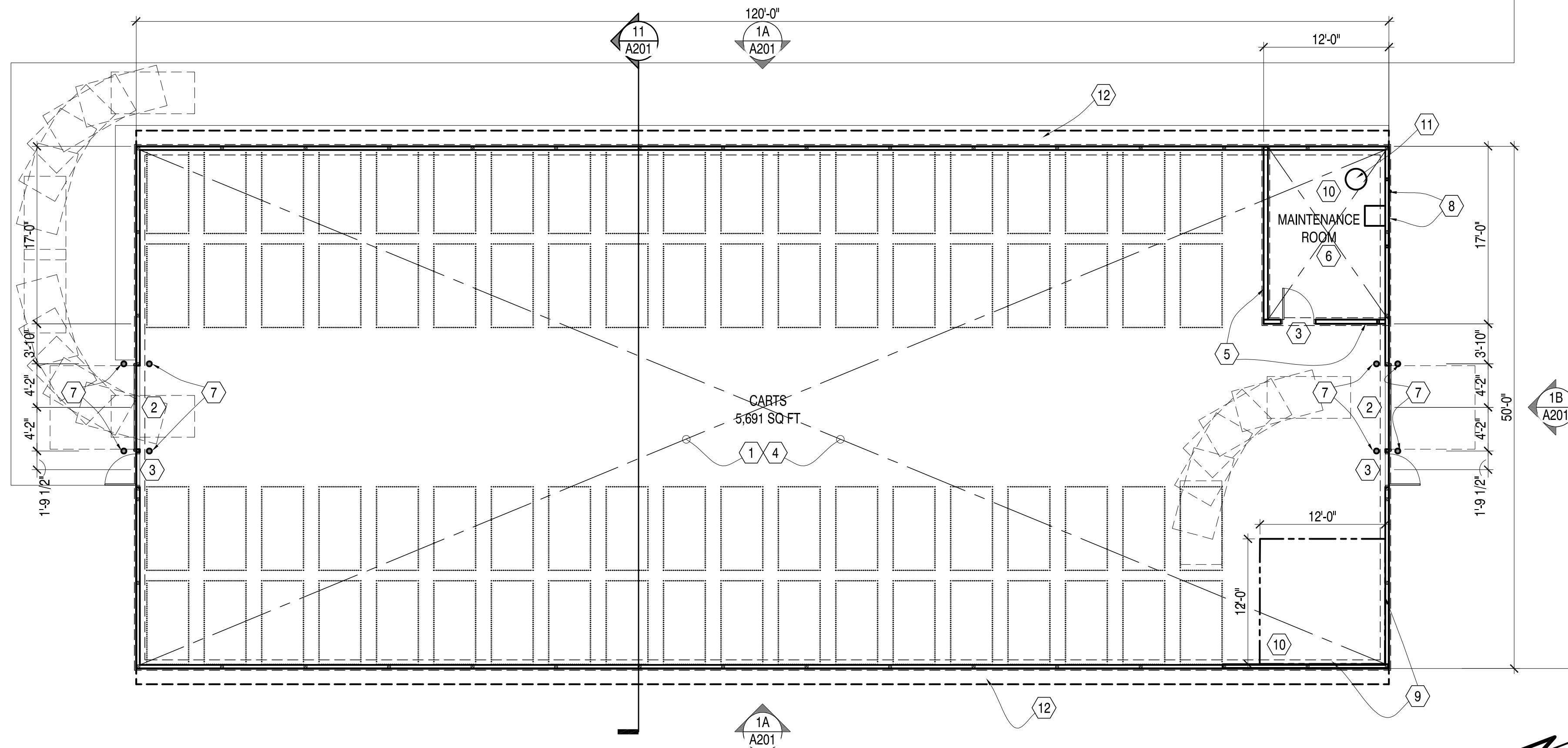
MBC - TYPE VB

BUILDING AREA: 6,000 SF

CODE COMPLIANCE

NO SCALE	8
REF'D FROM: TS	

- NEW STUD WALL
- EXTERIOR ELEVATION BUBBLE
- GOLF CART MANEUVERING CLEARANCE
- NEW DOOR
- KEYED NOTE
- GOLF CARTS BY OWNER, SHOWN FOR REFERENCE ONLY, N.I.C.



PLAN LEGEND

NO SCALE	4
REF'D FROM: TS	

FLOOR PLAN

SCALE: 1/8"=1'-0"	1
REF'D FROM:	



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
2	BID SET	04.27.16	BWA	NW
1	90% REVIEW SET	03.21.16	BWA	NW

PREPARED BY:
 Stanley Construction, Michigan Inc.
 3754 Research Park Drive
 Ann Arbor MI U.S.A.
 48108-2216
 Tel: 734-761-1010
 Fax: 734-761-1010
 www.stanley.com

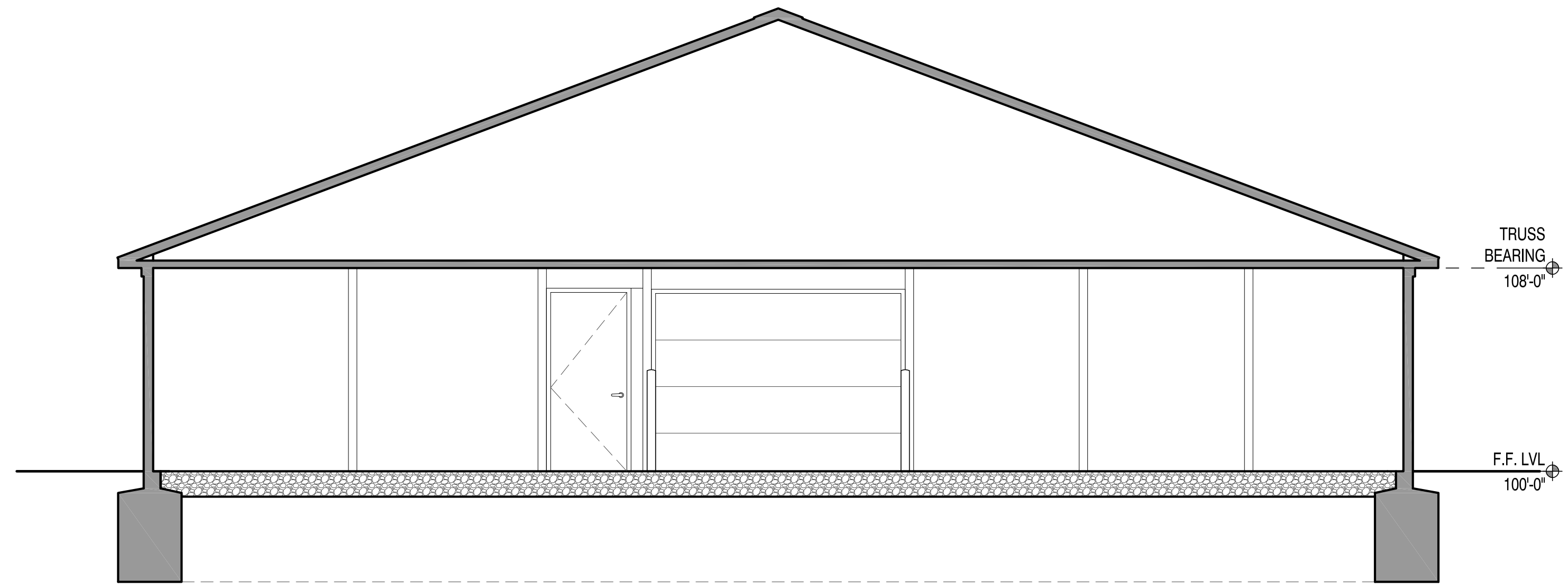


COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
 FRAMING PLAN, ROOF PLAN AND NOTES

SCALE: 1/8"=1'-0"
 DRAWING No. 15045 A-101

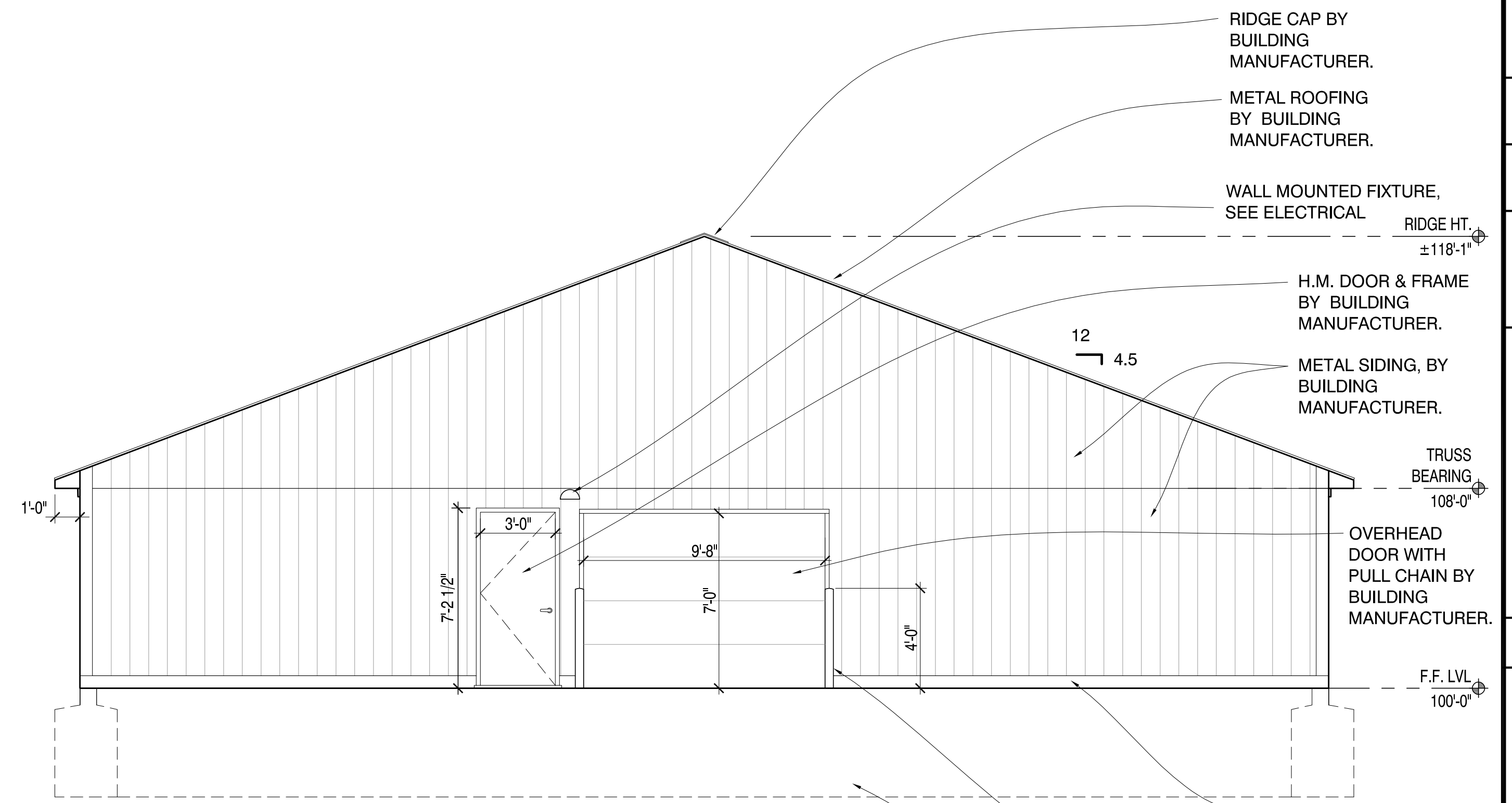
V:\2075\active\2075135200\design\Leslie\135200A-101.dwg Dwg Created: 16-Mar-16 -- o3c 2009 half scale.ctb -- Plot Date: 28-Apr-16

V:\2075\active\2075135200\design\drawing\Leslie\135200A-201.dwg Dwg Created: 16-Mar-16 - o3c 2009 half scale.ctb - Plot Date: 28-Apr-16

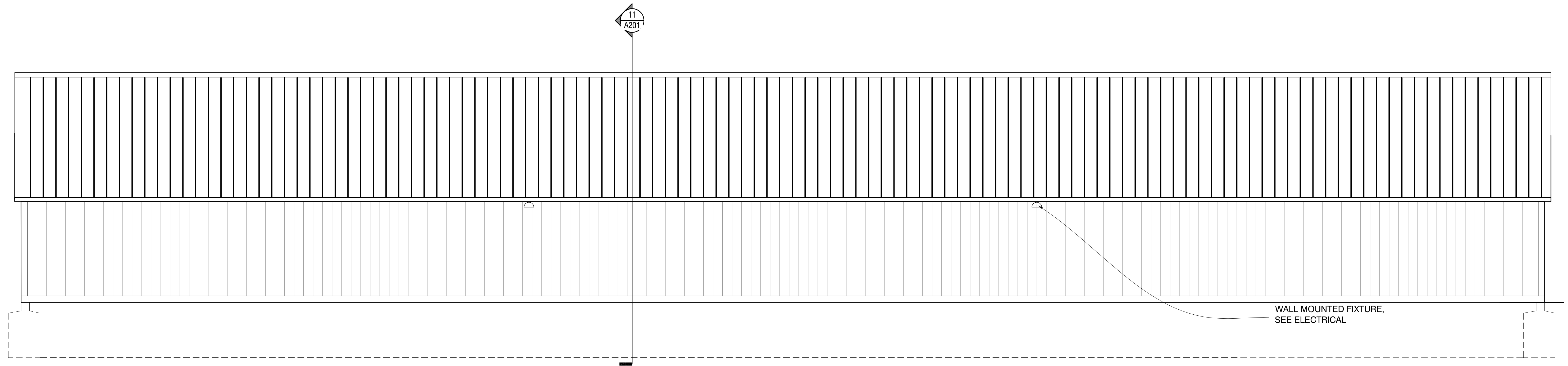


15045-BS01

BUILDING SECTION SCALE: 1/4"=1'-0" REF'D FROM: **11**



B NORTH ELEVATION
SOUTH ELEVATION - OPPOSITE HAND



A EAST AND WEST ELEVATIONS

15045-EE01

EXTERIOR ELEVATIONS SCALE: 1/4"=1'-0" REF'D FROM: **1**



REV.	DATE	DESCRIPTION
2	04.27.16	BID SET
1	03.21.16	90% REVIEW SET

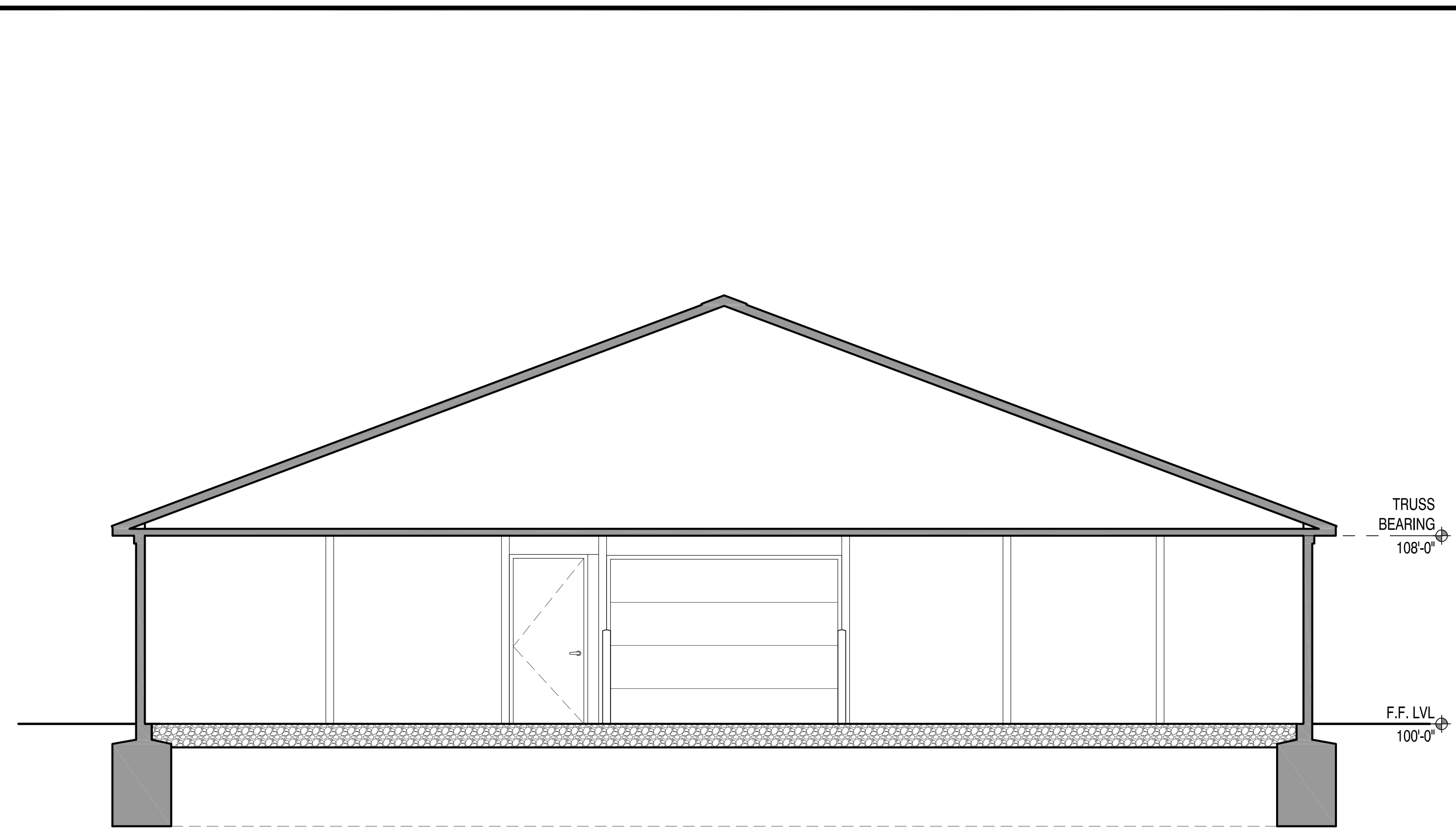
PREPARED BY:
Stark Construction, Michigan Inc.
3754 Reservoir Park Drive
Ann Arbor MI U.S.A.
48108-2216
Tel: 734-761-1010
Fax: 734-761-0060
www.stark.com



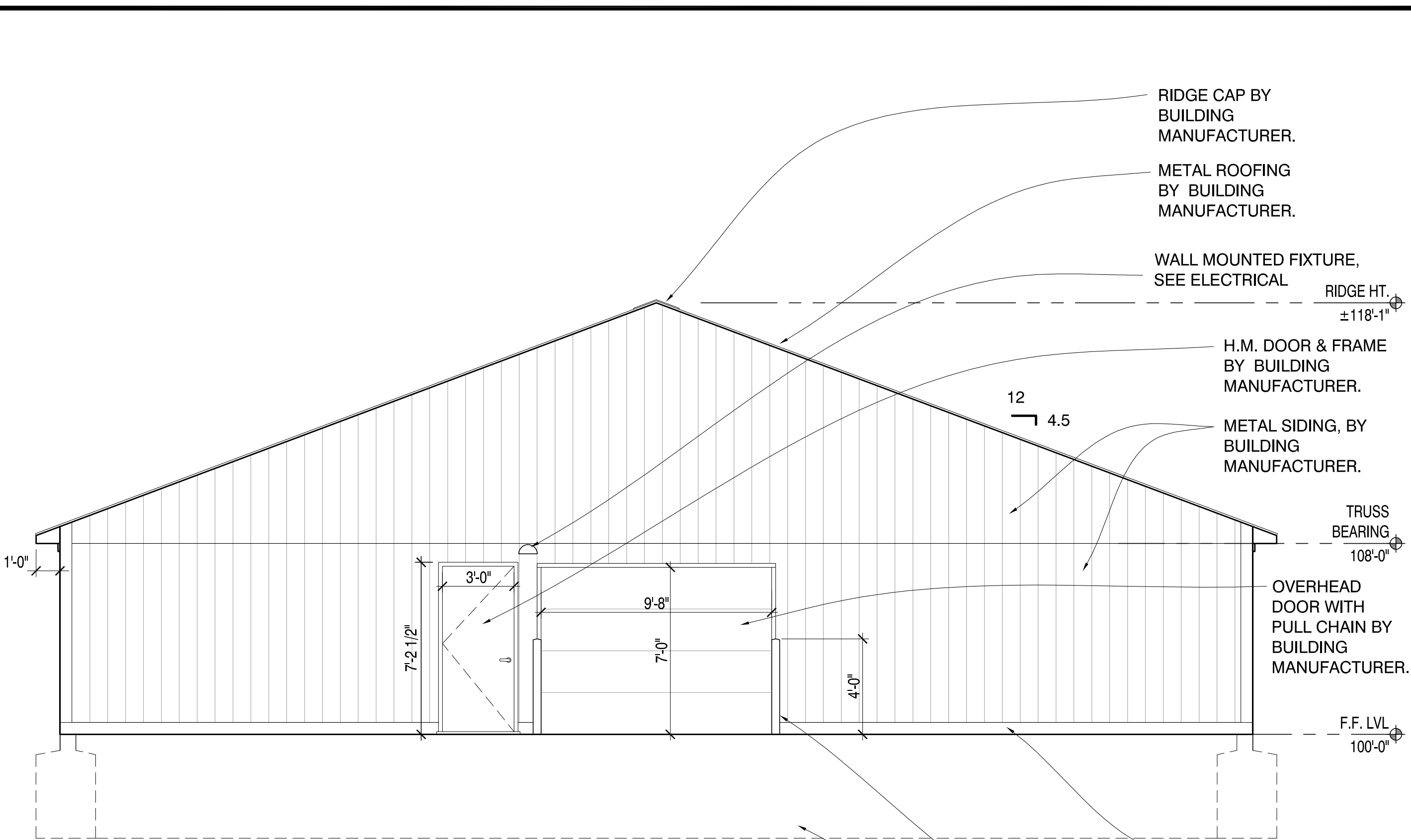
COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
EXTERIOR ELEVATIONS AND BUILDING SECTIONS

SCALE: 1/4"=1'-0"
DRAWING No. **15045**
SHEET No. **A-201**

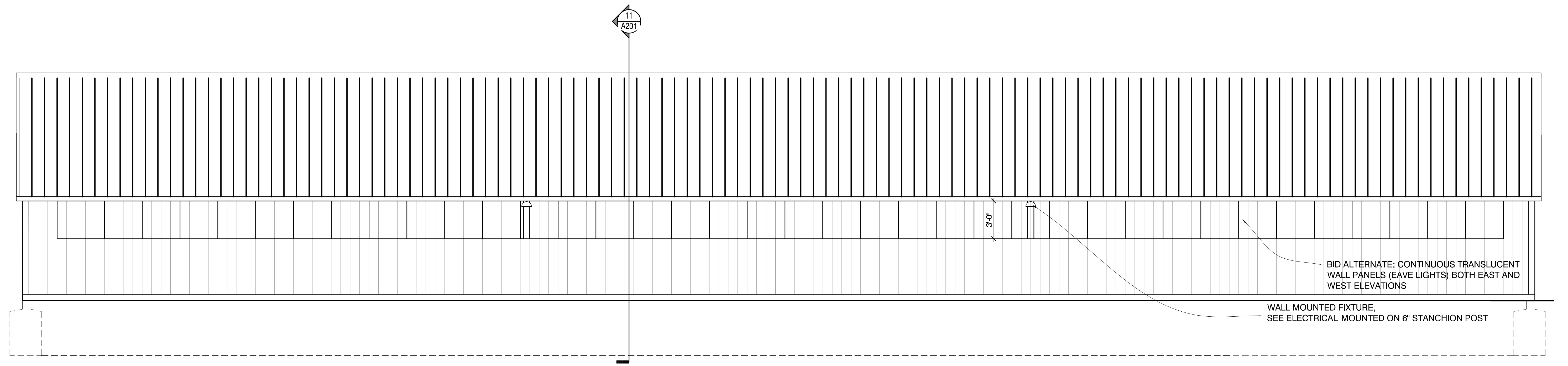
V:\2075\active\2075135200\design\drawing\Leslie\135200A-301.dwg Dwg Created: 11-Apr-16 - a3c 2009 half scale.ctb - Plot Date: 28-Apr-16



15045-BS01 **BUILDING SECTION** SCALE: 1/4"=1'-0" REF'D FROM: **11**




B NORTH ELEVATION
SOUTH ELEVATION - OPPOSITE HAND



A EAST AND WEST ELEVATIONS

15045-EE01 **EXTERIOR ELEVATIONS** SCALE: 1/4"=1'-0" REF'D FROM: **1**

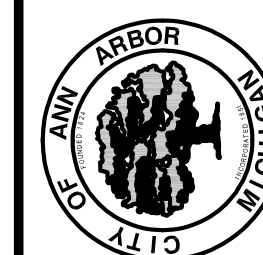
- RIDGE CAP BY BUILDING MANUFACTURER.
- METAL ROOFING BY BUILDING MANUFACTURER.
- WALL MOUNTED FIXTURE, SEE ELECTRICAL
- RIDGE HT. ±118'-1"
- H.M. DOOR & FRAME BY BUILDING MANUFACTURER.
- METAL SIDING, BY BUILDING MANUFACTURER.
- TRUSS BEARING 108'-0"
- OVERHEAD DOOR WITH PULL CHAIN BY BUILDING MANUFACTURER.
- F.F. LVL 100'-0"
- GRADE BOARD, BY BUILDING MANUFACTURER.
- BOLLARD, SEE CIVIL
- FOUNDATION, SEE S-201



Know what's Below.
CALL

	NW	NW	BWA	BWA	04.27.16	03.21.16			
	BID SET	90% REVIEW SET							
	2	1							

PREPARED BY:
 Stark Construction, Michigan Inc.
 3754 Reservoir Park Drive
 Ann Arbor MI U.S.A.
 48108-2216
 Tel: 734-761-1010
 Fax: 734-761-1000
 www.starkcon.com




CITY OF ANN ARBOR

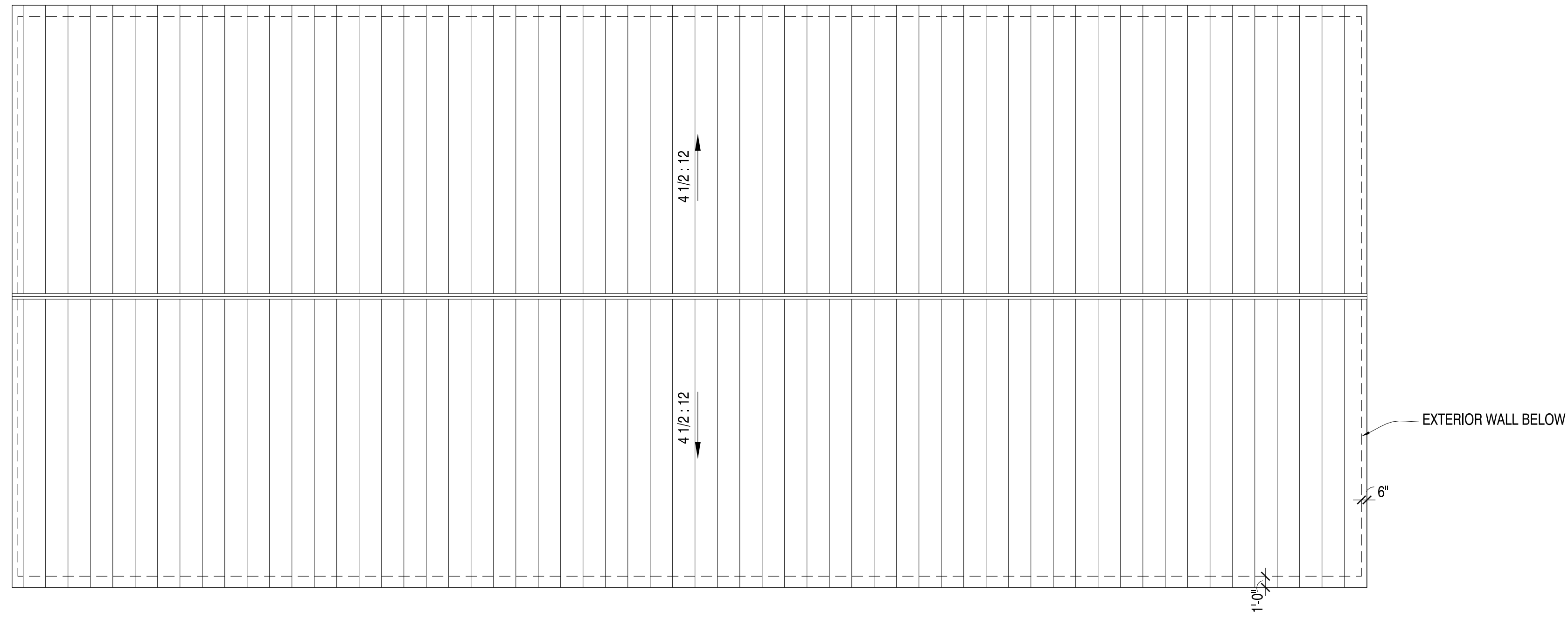
COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
 BID ALT #2 - EXTERIOR ELEVATIONS AND BUILDING SECTIONS

SCALE: 1/4"=1'-0"
 DRAWING No. **15045**
 SHEET No. **A-301**

9 OF 16

STRUCTURAL NOTES:

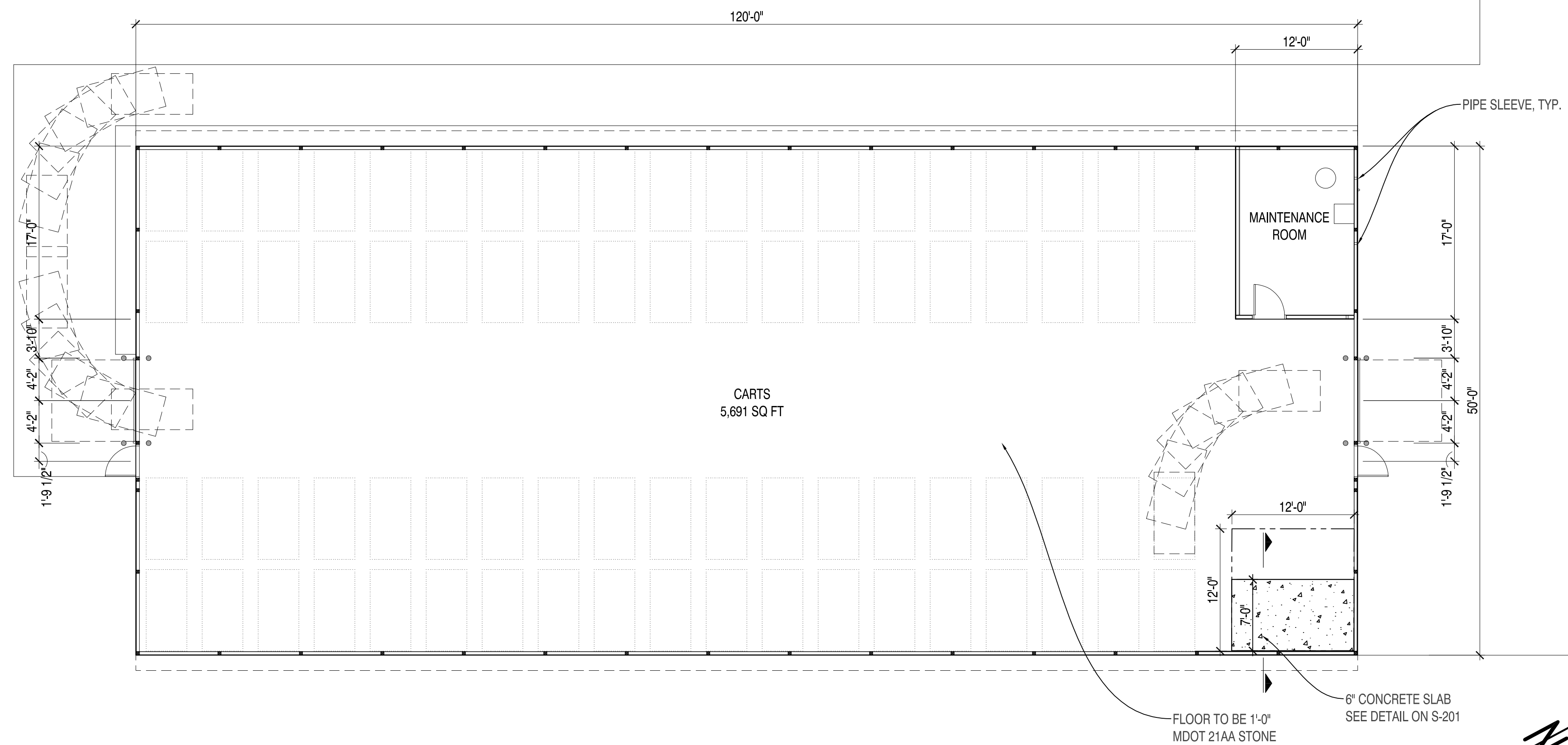
1. CONCRETE ELECTRICAL EQUIPMENT SLAB SHALL BE SET ON MDOT 6" 21AA STONE COMPACTED TO 95% MAX DRY DENSITY PER ASTM D-1557.
2. USE 10 MIL VAPOR BARRIER UNDER ALL SLABS (TYP).
3. DATUM ELEVATION = 0'-0" @ TOP OF SLAB ELEVATION (TYP.).
4.  DENOTES TOP OF FOOTING ELEVATION.
5. THE MAIN FLOOR OF THE BUILDING IS TO BE CONSTRUCTED OF 1'-0" MINIMUM OF MDOT 21AA STONE COMPACTED TO 95% MAX DRY DENSITY PER ASTM D-1557.



15045-RF01

ROOF PLAN

SCALE: 1/8"=1'-0"
REF'D FROM:



15045-FL01

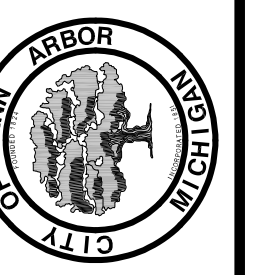
FLOOR PLAN

SCALE: 1/8"=1'-0"



REV.	DESCRIPTION	DATE	BY	CHECKED
2	BID SET	04.27.2016	BWA	NJW
1	90% REVIEW SET	03.21.2016	BWA	NJW


PREPARED BY:
Stark Construction, Michigan Inc.
3754 Research Park Drive
Ann Arbor MI U.S.A.
48108-2216
Tel: 734-761-1010
Fax: 734-761-0060
www.starkinc.com

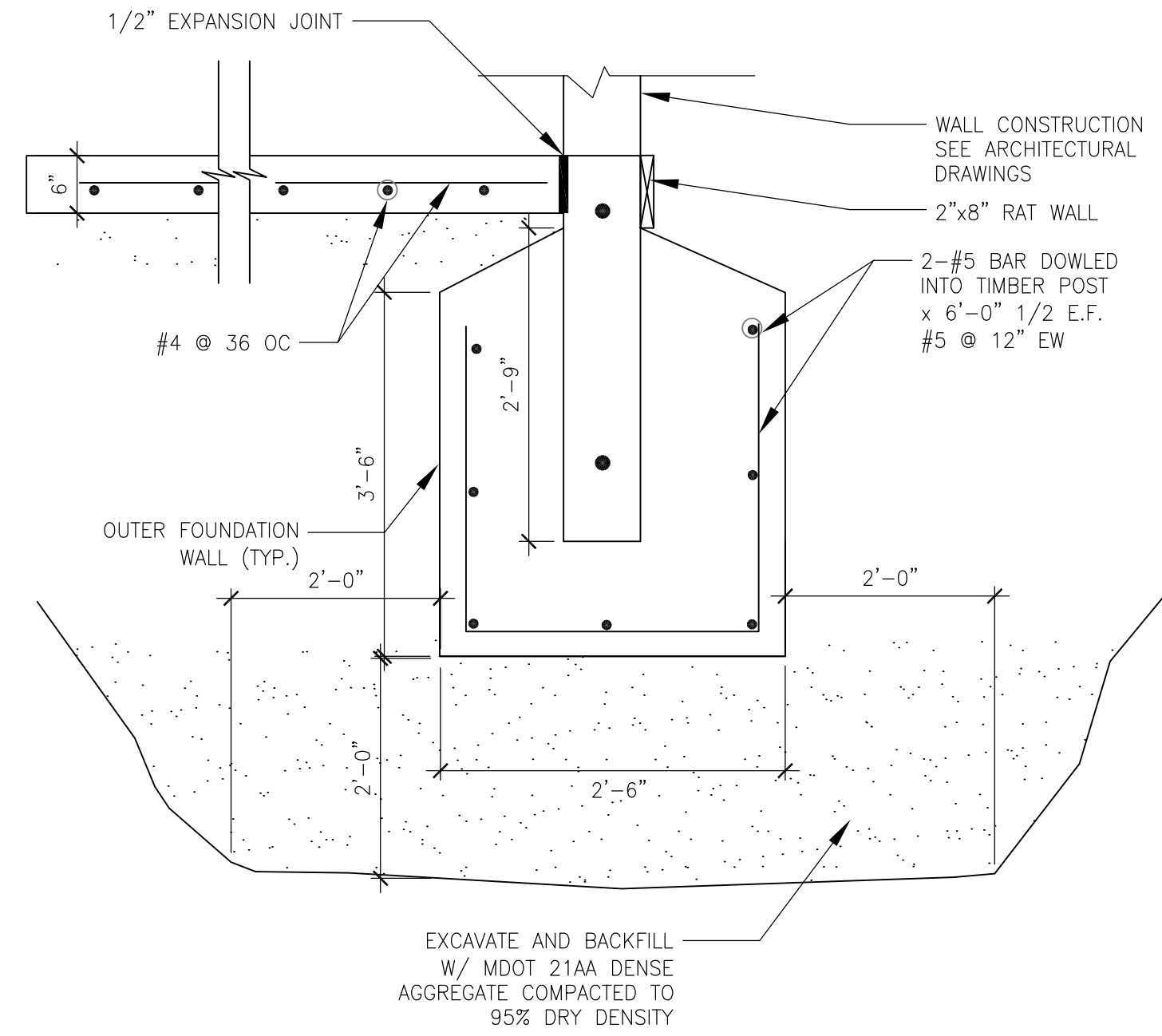


COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
STRUCTURAL PLAN

SCALE: 1/8"=1'-0"
DRAWING No. 2075135200
S-101

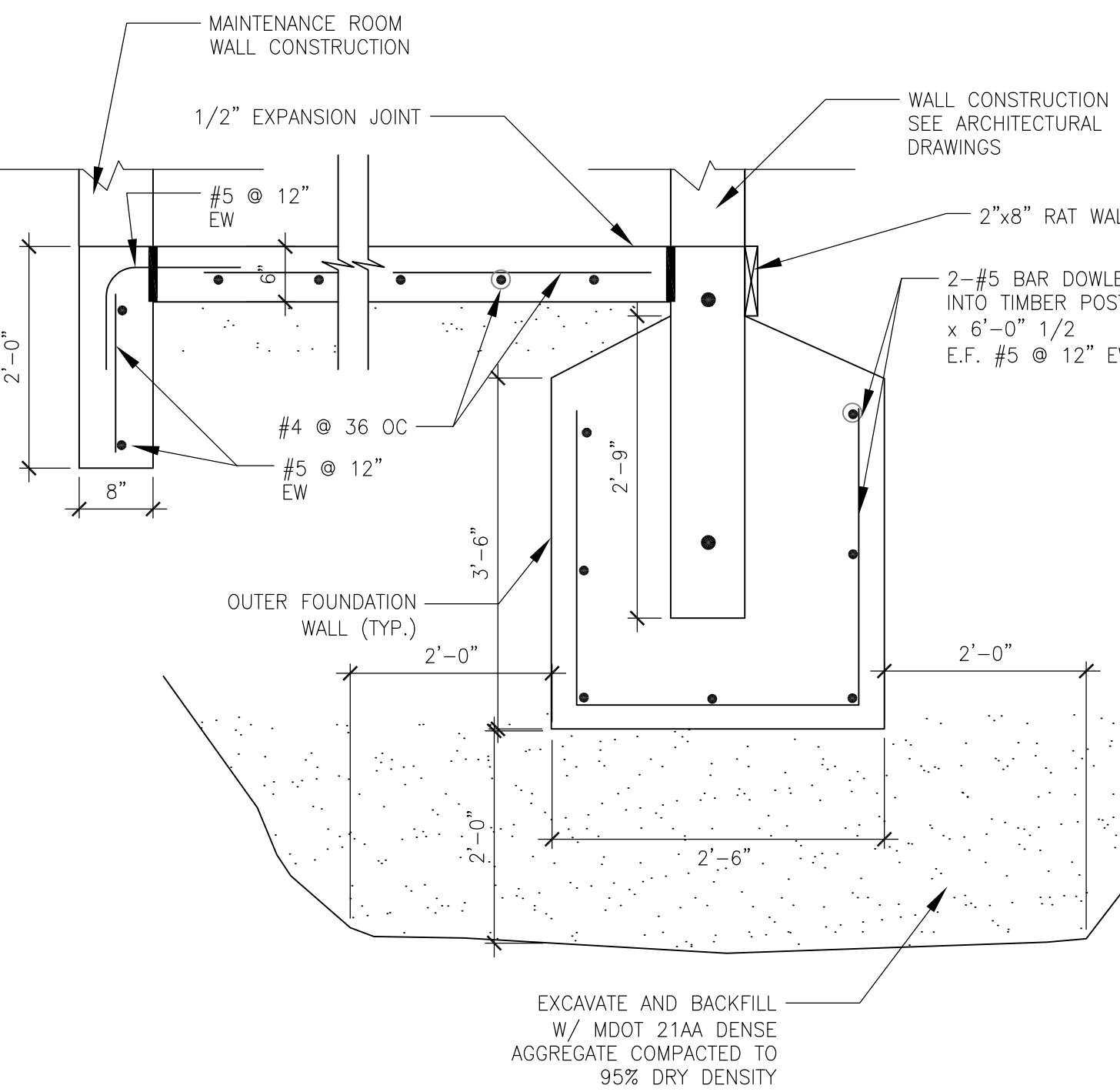
STRUCTURAL NOTES:

1. CONCRETE MAINTENANCE ROOM & ELECTRICAL EQUIPMENT SLAB SHALL BE SET ON 6" MDOT 21AA STONE COMPACTED TO 95% MAX DRY DENSITY PER ASTM D-1557.
2. USE 10 MIL VAPOR BARRIER UNDER ALL SLABS (TYP).
3. DATUM ELEVATION = 0'-0" @ TOP OF SLAB ELEVATION (TYP).
4.  DENOTES TOP OF FOOTING ELEVATION.
5. THE MAIN FLOOR OF THE BUILDING IS TO BE CONSTRUCTED OF 1'-0" MINIMUM OF MDOT 21AA STONE COMPACTED TO 95% MAX DRY DENSITY PER ASTM D-1557.



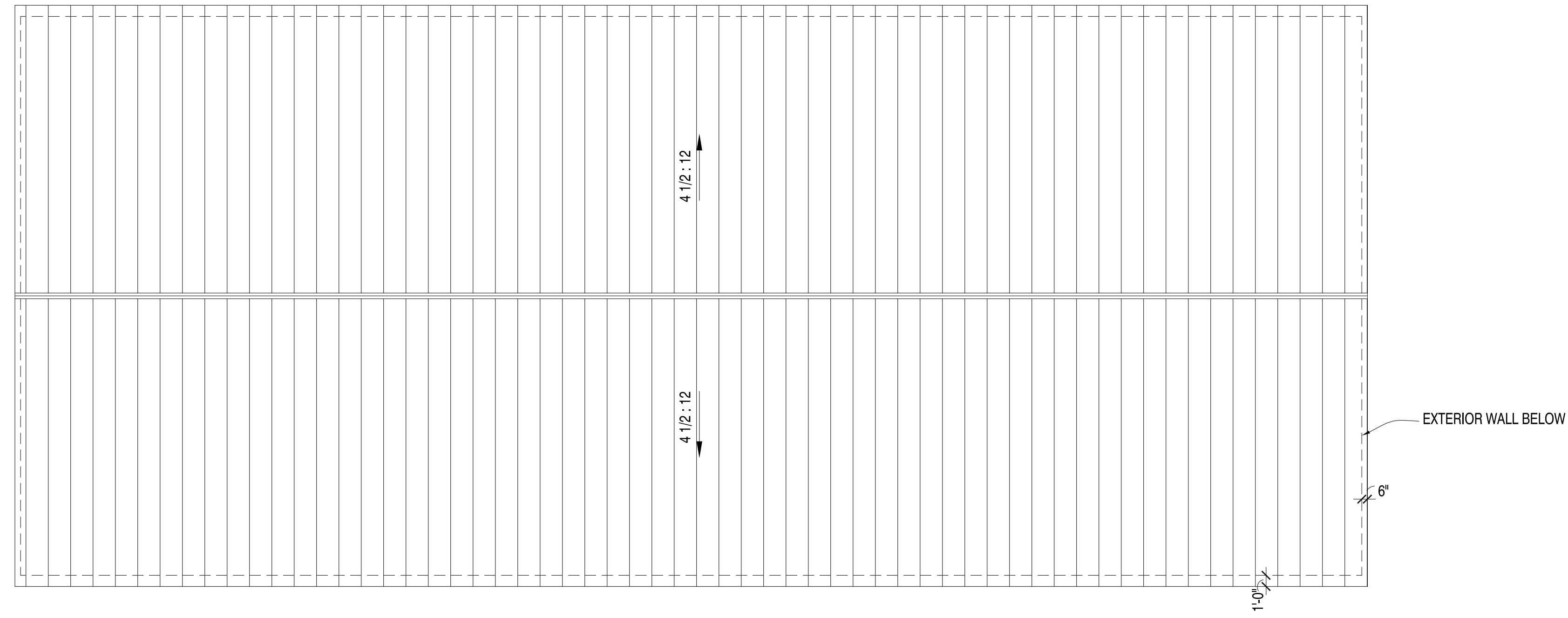
ELECTRICAL SLAB SECTION

15045-RF01



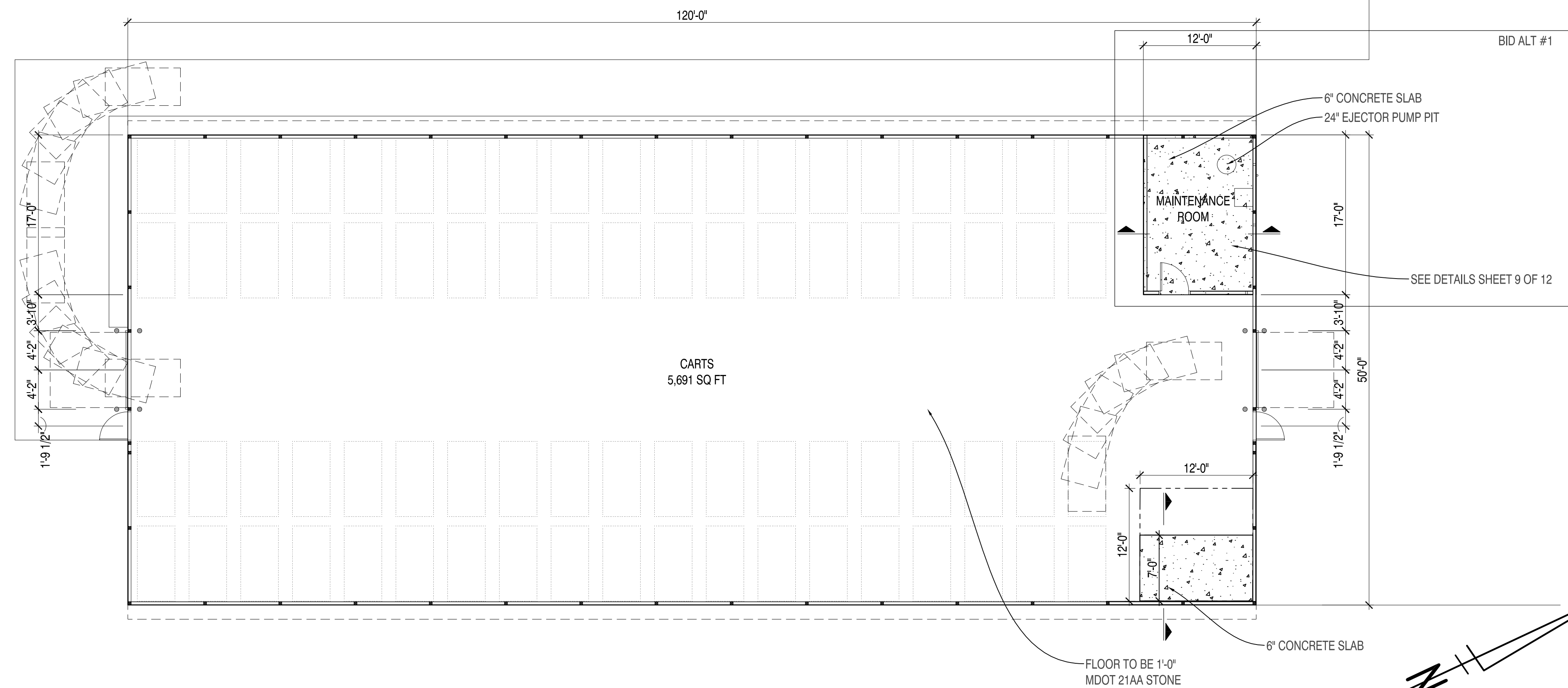
MAINTENANCE ROOM FLOOR SECTION

15045-FL01



ROOF PLAN

SCALE: 1/8"=1'-0"
REF'D FROM:



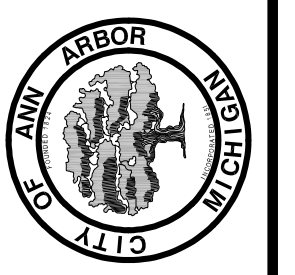
FLOOR PLAN

SCALE: 1/8"=1'-0"



REV.	DATE	DESCRIPTION
2	04.27.2016	BID SET
1	03.21.2016	90% REVIEW SET

PREPARED BY:
Stark Construction Michigan Inc.
3754 Research Park Drive
Ann Arbor MI U.S.A.
48108-2216
Tel: 734-761-1010
Fax: 734-761-0060
www.stark.com



COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING
BID ALT #1 - STRUCTURAL PLAN

SCALE: 1/8"=1'-0"
DRAWING No. 2075135200
SHEET No. S-201

Zoeller
PUMP COMPANY

912 - SIMPLEX SEWAGE PACKAGE SYSTEMS (JOB READY/ASSEMBLED)
Zoeller Preassembled Sewage Systems

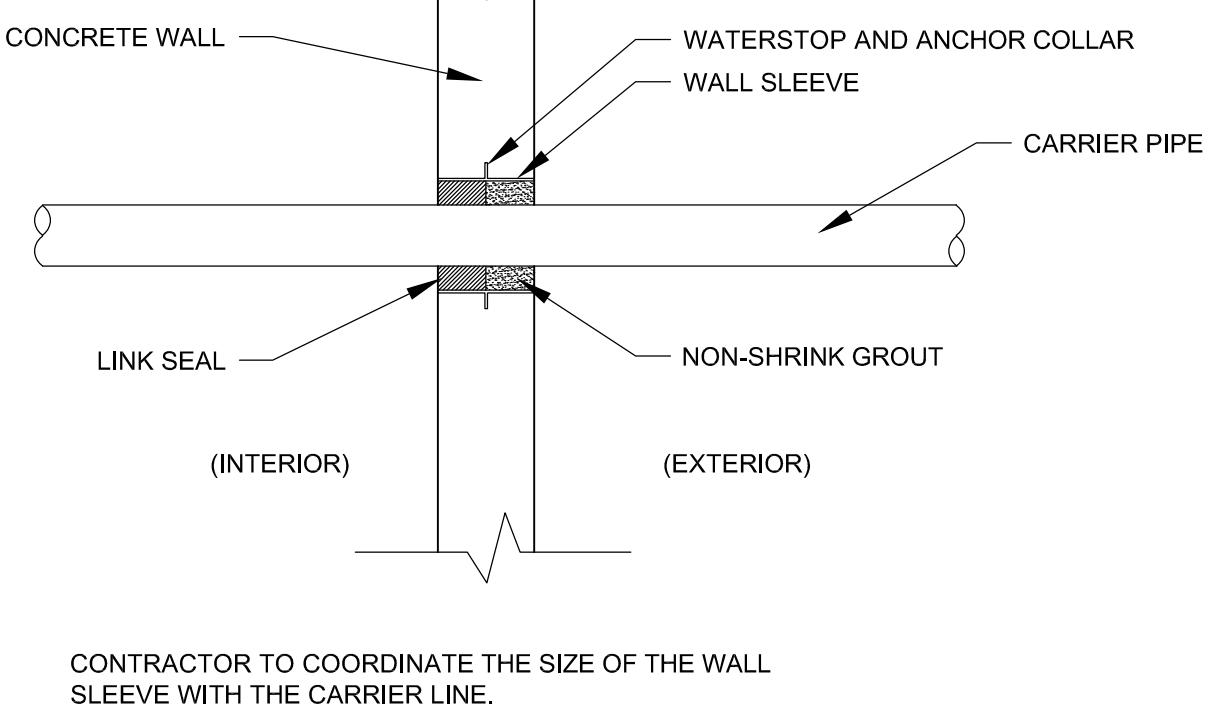
More Choices • Easier Installation • Fast Delivery • Saves Labor • Reduces Installation Errors

SYSTEMS INCLUDE:

- 2" x 2" cast iron pump
- 2" PVC float valve, 3/4" x 3/4" x 1/2" (3/4" x 1/2" x 1/2") w/ 1/2" vent pipe
- 2" PVC vent pipe, 3/4" x 3/4" x 1/2" (3/4" x 1/2" x 1/2") w/ 1/2" vent pipe
- 2" PVC float valve, 3/4" x 3/4" x 1/2" (3/4" x 1/2" x 1/2") w/ 1/2" vent pipe
- 2" PVC vent pipe, 3/4" x 3/4" x 1/2" (3/4" x 1/2" x 1/2") w/ 1/2" vent pipe
- 2" PVC float valve, 3/4" x 3/4" x 1/2" (3/4" x 1/2" x 1/2") w/ 1/2" vent pipe
- 2" PVC vent pipe, 3/4" x 3/4" x 1/2" (3/4" x 1/2" x 1/2") w/ 1/2" vent pipe

MODEL	Q1	Q2	Q3	Q4	Q5	Q6
151	1.0	1.5	2.0	2.5	3.0	3.5
152	1.0	1.5	2.0	2.5	3.0	3.5
153	1.0	1.5	2.0	2.5	3.0	3.5
154	1.0	1.5	2.0	2.5	3.0	3.5
155	1.0	1.5	2.0	2.5	3.0	3.5
156	1.0	1.5	2.0	2.5	3.0	3.5
157	1.0	1.5	2.0	2.5	3.0	3.5
158	1.0	1.5	2.0	2.5	3.0	3.5
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160	1.0	1.5	2.0	2.5	3.0	3.5

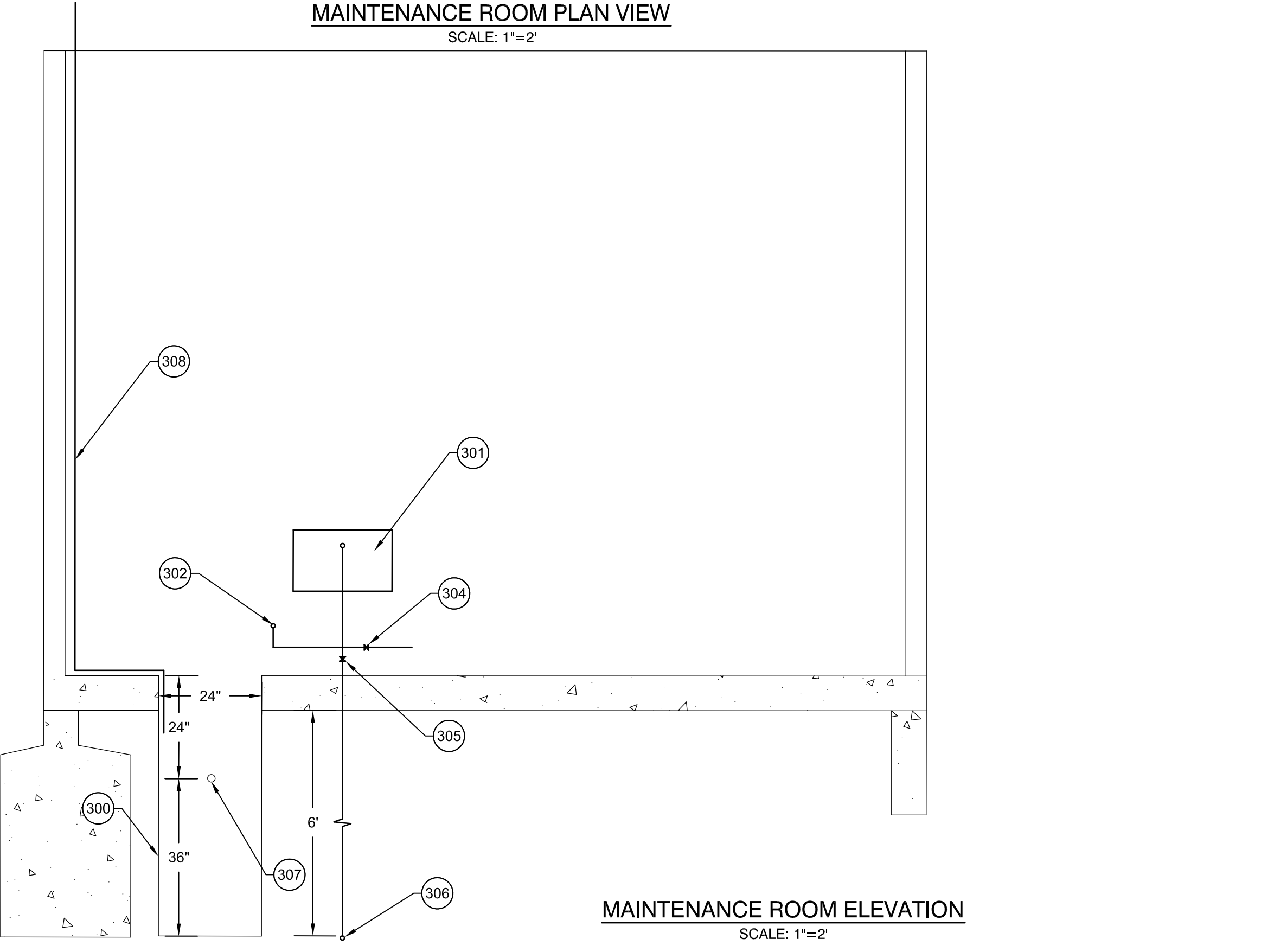
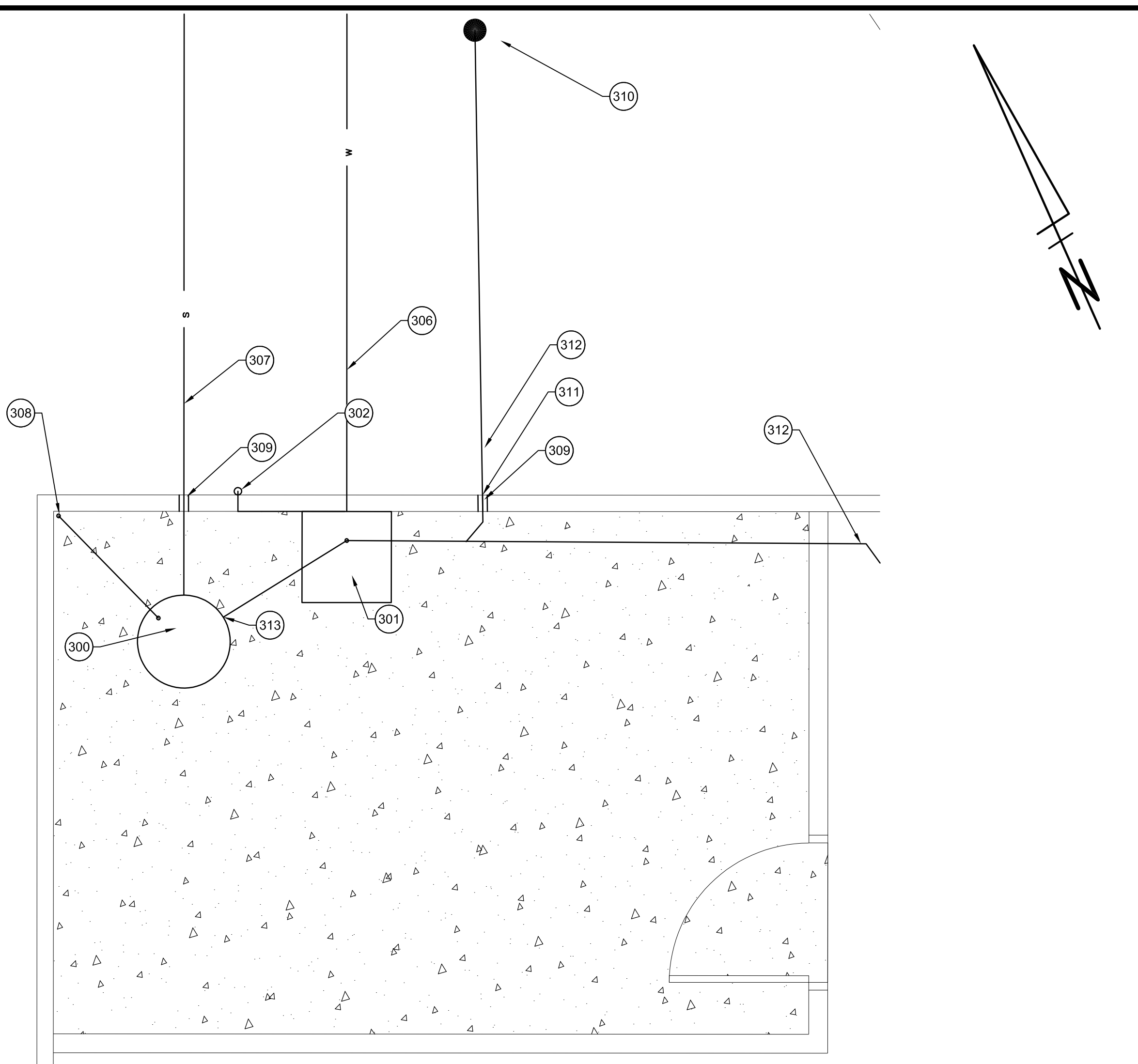
2" Part Code by Item #	2" Part Code by Item #	Pump	Basin Type	Basin Size	Weight Each
912-001	912-001	912-001	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-002	912-002	912-002	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-003	912-003	912-003	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-004	912-004	912-004	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-005	912-005	912-005	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-006	912-006	912-006	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-007	912-007	912-007	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-008	912-008	912-008	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-009	912-009	912-009	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-010	912-010	912-010	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-011	912-011	912-011	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-012	912-012	912-012	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-013	912-013	912-013	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-014	912-014	912-014	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
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912-016	912-016	912-016	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-017	912-017	912-017	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
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912-021	912-021	912-021	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
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912-048	912-048	912-048	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-049	912-049	912-049	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55
912-050	912-050	912-050	Polyethylene Structural Foam Standard w/ Alarm	48" x 36" x 24"	55



WALL SLEEVE DETAIL

MECHANICAL NOTES

- 300 EJECTOR PUMP SYSTEM, 24"x36" WITH 24" RISER
- 301 PROPOSED SINK
- 302 PROPOSED HOSE BIB
- 304 1" PVC BALL VALVE
- 305 1" PVC BALL VALVE W/ MALE AIR HOSE ADAPTOR
- 306 1" SCH 80 PVC WATER SUPPLY LINE, I.E.= 849.00
- 307 2" SCH 80 PVC SANITARY FORCEMAIN, I.E.= 852.00
- 308 2" SCH 80 PVC SANITARY VENT LINE THROUGH ROOF SUPPORT AS NEEDED
- 309 WALL SLEEVE WITH LINK SEAL, SEE DETAIL
- 310 FUTURE FLOOR DRAIN
- 311 4" SCH 80 PVC, I.E.= 852.50
- 312 CAP FUTURE WASH LINE STATION DRAIN LINE AT WYE WITH PVC CAP AND MARK WITH METAL INDICATOR TAPE
- 313 I.E.= 852.00



MUSTEE
15F and 15W UTILATUB®
Laundry/Utility Tubs — Premier

SEE PAGE 2 FOR A LIST OF ACCESSORIES!

Design features:

- High strength, one-piece molded construction
- Produced with Mustee's proprietary structural thermoplastic resin and innovative cellular molding process creating extreme strength & durability
- Built-in scrub board, angled for easy access
- 18 Gallon capacity, extra deep 15" tub with smooth surface
- Leakproof, integrally molded-in drain with stopper
- Connects to standard 1 1/2" P or S trap
- Accommodates dual-handle faucet with 4" center
- Large, self-draining back shelf with retaining curb that prohibits water run-off except into tub
- Floor model includes heavy gauge steel legs with adjustable leveling
- Wall model includes wall mounting bracket, side supports and mounting hardware for securing tub to concrete or stud wall
- Mold and mil-free-resistant components
- Easy to assemble and install
- Color-fast white finish

Code Accepted:

- International Association of Plumbing and Mechanical Officials (IAPMO) listed
- Menckel Hardware (Domestic) Listed—CSA listed standard: Laundry Tray - 1945.0 and 1945.1, Drain - 493.25
- American National Standards Institute (ANSI)—Specification Z 154-2011

Specifications

Colors & Models:	Model	Mounting	H x W x D	UPC
White	15F	Floor	34" x 23" x 23-1/2"	6 71031 00016 7
White	15W	Wall	34" x 23" x 23-1/2"	6 71031 00019 4

General: Finish and install as shown or please, UTILATUB® Laundry Utility Tub model... 15F and 15W are manufactured by E.L. Mustee & Sons, Inc. Tub shall be one-piece molded construction using structural thermoplastic resin with reinforced cellular structure on exterior and pressure. Tub to include built-in scrub board integrally molded drain assembly for connection to standard 1 1/2" P or S trap. Stopper and floor model includes heavy gauge steel legs with adjustable leveling. 18 gallon capacity tub, 15" deep. Shelf must meet ANSI Z 154-2011. Color: White. Weight: 15F 21 lbs., 15W 20 lbs.

Mustee & Sons, Inc.
3401 West 94th Street • Brook Park, OH 44142 • Phone: 216.282.2300 • Fax: 216.282.9977
E-mail: info@mustee.com • Web: www.mustee.com • Proudly made in the USA

MUSTEE
15F and 15W UTILATUB®
Laundry/Utility Tub Accessories

Faucet

Model No. UPC
94.900 6 71031 00032 7

Chrome finish, 4" center set brass faucet, 7" swing spout with ceramic, level handle, replaceable seats and O-rings. Available in brass finish.

HandiFit® Fitting

Model No. UPC
94.700 6 71031 00037 8

Used when water supply lines are above the tub. Mounts to tub shelf using a clamp-on faucet.

Central Brass
MODEL NO. 0485
LAUNDRY FAUCET

0485 (Female Coupling Unions)
0485-C (Copper Sweat Unions)

The laundry faucet has a cast brass body with straddle legs and female coupling union supply connections (also available with copper sweat union 1/2" suffix). The stems are all brass with a double O-Ring seal and rubber seat washer. The 6-inch brass swivel spout has a hose end adapter. The laundry faucet has a rough cast brass finish.

Meets ANSINFS Standard 61, Section 9 for Lead
ANSI A112.18.1M
ADA Compliant

Installation Drawing

MODEL 15W (15WK)

PARTS ILLUSTRATION

Parts List

KEY NO.	PART NO.	DESCRIPTION
1	15.101	Single Compartment Laundry Tray
2	19.203	Molded Side Filter - Left Hand
3	19.202	Molded Side Filter - Right Hand
4	18.201	Wall Plate
5	18.202	Leg Screw, 5/16" x 2" (4 Required)
6	18.203	Anchor, Plastic, 5/16" x 2" (4 Required)
7	18.204	Drill Bit - 1/4" Dia. x 3/4" Lg. (4 Required)
8	18.205	Stopper - 1-1/2" Diameter
9	18.206	Shift Flat Washer (2 Required)
10	18.207	1-1/2" Ballplate Washer (Not Shown)
11	18.208	1-1/2" Thrd. Slip Nut (Not Shown)

NOTE: Any type of transfer or sump pump must be supported by the floor or wall plus appropriate bracing for the waste line. DO NOT REPLY SOLELY ON THE 1 1/2" MOLDED DRAIN CONNECTION.

NOTE: For replacement hardware, order complete parts package part no. 18.201. Packages will not be split for individual parts.

E.L. MUSTEE & SONS, INC.
3401 West 94th Street • Brook Park, Ohio 44142

COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING

BID ALT #1 - MECHANICAL PLAN AND SECTION

PREPARED BY:
Statens Consulting Engineers Inc.
3754 Research Park Drive
Ann Arbor MI U.S.A.
48108-2216
Tel: 734-767-1010
Fax: 734-767-0060
www.statens.com

DATE: 03.21.2016
REV: 1

DESCRIPTION: 90% REVIEW SET

DATE: 04.27.2016

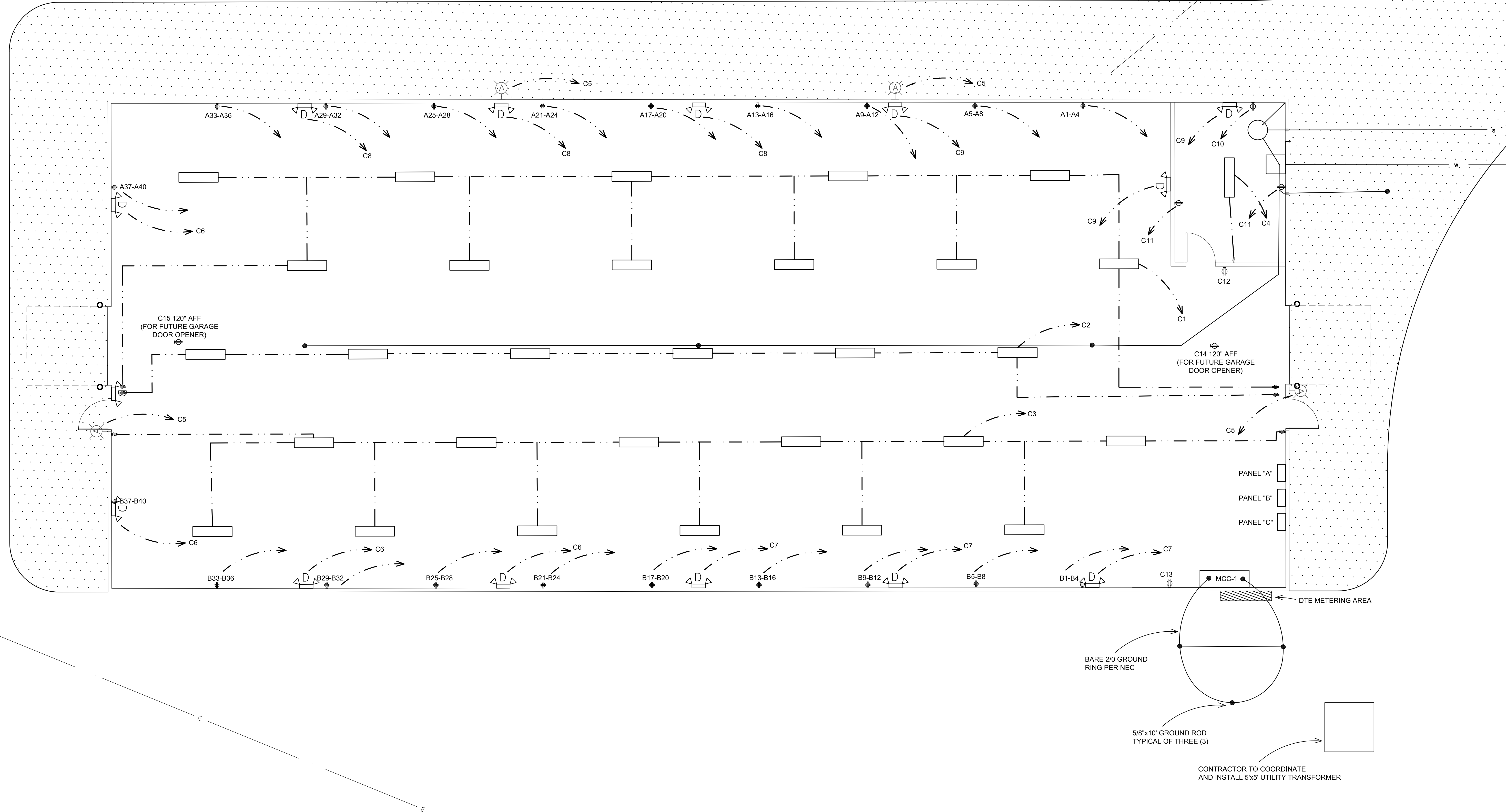
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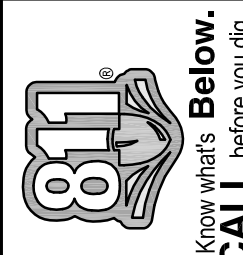
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DRAWING NO.: 2075135200

SHEET NO.: 13 OF 16

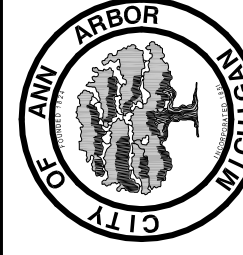
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
2	BID SET	04.27.2016	BWA	NJW
1	90% REVIEW SET	03.21.2016	BWA	NJW

PREPARED BY:
 Stattek Consulting Michigan Inc.
 3754 Reservoir Park Drive
 Ann Arbor MI U.S.A.
 48108-2216
 Tel: 734-761-1010
 Fax: 734-761-0060
 www.stattek.com



COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING

ELECTRICAL PLAN

SCALE PLAN: 1"=5'
 DRAWING No. 2075135200
 SHEET No. E-101

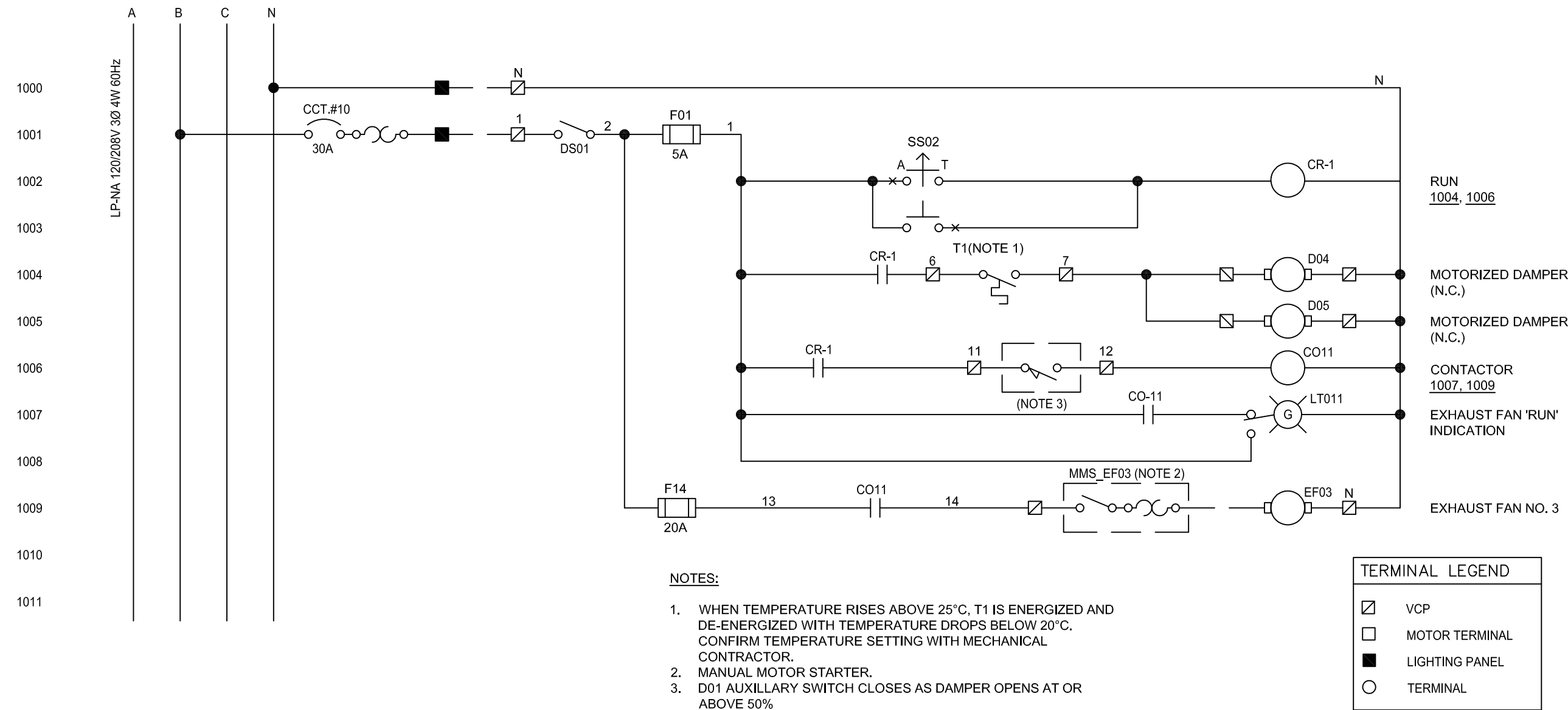
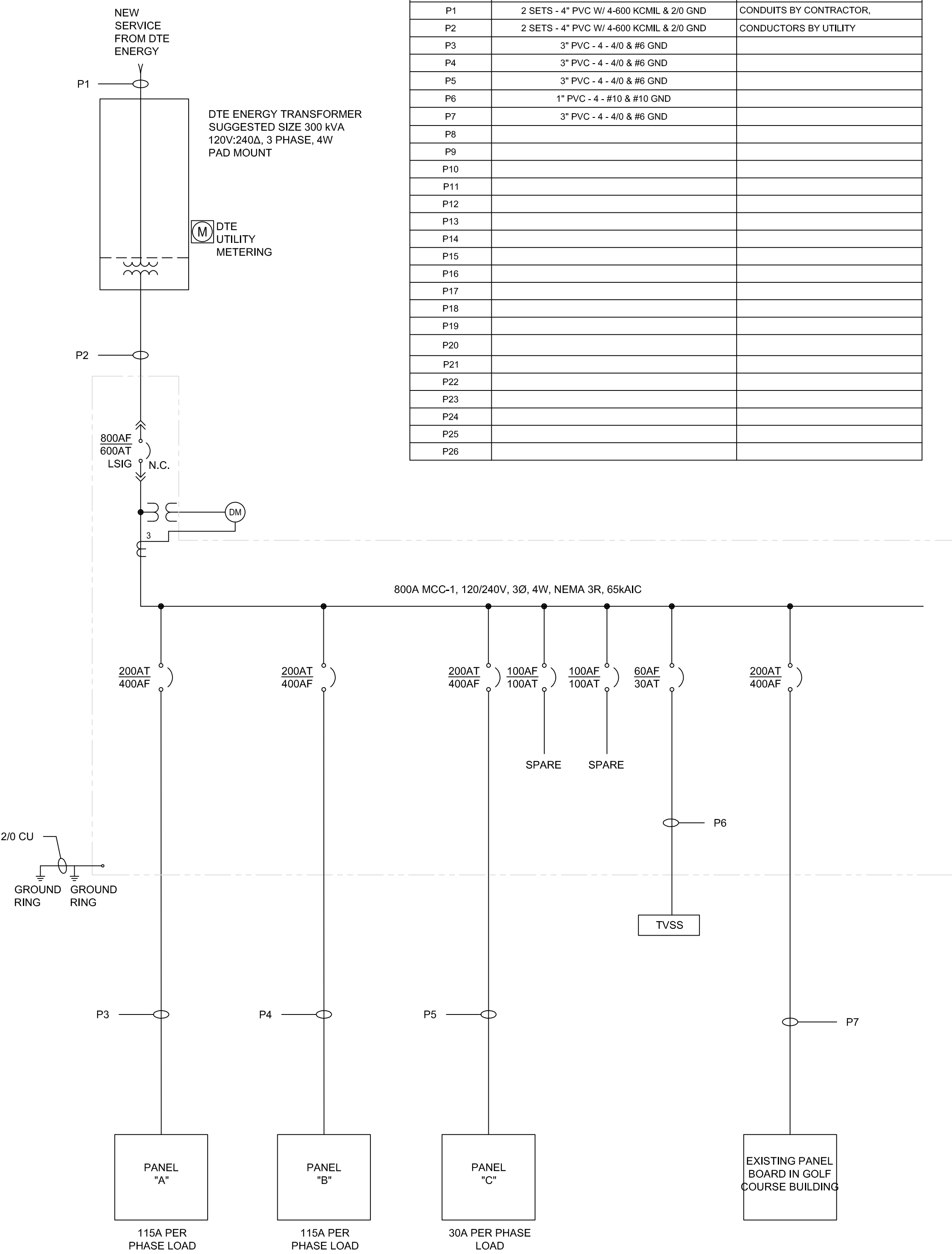
15 OF 16

LUMINAIRE SCHEDULE

No.	DESCRIPTION	MANUFACTURER	MODEL No.	LAMP No.	LAMP TYPE	MOUNTING	REMARKS	WATTS
A	OUTDOOR ARCHITECTURAL WALL SCONCE	LITHONIA	-	-	-	SURFACE	BATTERY BACKUP	24
		HOLOPHANE	WSQ 10A 700/40K SR3 120 PE ELCW DDBDX	-	-	-	-	-
B	EXIT SIGN WITH LIGHTS	LITHONIA	-	-	-	SURFACE	-	-
		HOLOPHANE	LHOM LED R ELAT QLO309	-	-	-	-	-
C	ROUGH SERVICE, VAPOR TIGHT FIXTURE	LITHONIA	VAP 59 LED 57 SYM 120 CW VAPQMB	6	59 LED, 5700K	SUSPENDED	WHITE COLOR, 120V BALLAST, PHOTOCELL	59
		HOLOPHANE	EQUIVALENT TO LITHONIA	-	-	-	-	-
D	EMERGENCY LIGHTS	LITHONIA	-	-	-	-	-	-
		HOLOPHANE	IND 1236 H1212	-	-	-	-	-

POWER CONDUIT SCHEDULE

ITEM	FEEDER	NOTES
P1	2 SETS - 4" PVC W/ 4-600 KCMIL & 2/0 GND	CONDUITS BY CONTRACTOR.
P2	2 SETS - 4" PVC W/ 4-600 KCMIL & 2/0 GND	CONDUITS BY UTILITY
P3	3" PVC - 4 - 4/0 & #6 GND	
P4	3" PVC - 4 - 4/0 & #6 GND	
P5	3" PVC - 4 - 4/0 & #6 GND	
P6	1" PVC - 4 - #10 & #10 GND	
P7	3" PVC - 4 - 4/0 & #6 GND	
P8		
P9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		
P21		
P22		
P23		
P24		
P25		
P26		



SCHEMATIC WIRING DIAGRAM FOR VENTILATION CONTROL PANEL (VCP)
NO SCALE

PANEL SCHEDULE 'A'												PANEL SCHEDULE 'B'												PANEL SCHEDULE 'C'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PANEL		AMPERE RATING		BUS MATERIAL		MOUNTING		SURFACE		PANEL		AMPERE RATING		BUS MATERIAL		MOUNTING		SURFACE		PANEL		AMPERE RATING		BUS MATERIAL		MOUNTING		SURFACE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
VOLTS	PHASE	120	150	COPPER	250 MCM	INDUCED	ENCLOSURE	NEMA 1	PLUG IN	VOLTS	PHASE	120	150	COPPER	250 MCM	INDUCED	ENCLOSURE	NEMA 1	PLUG IN	VOLTS	PHASE	120	150	COPPER	250 MCM	INDUCED	ENCLOSURE	NEMA 1	PLUG IN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Z-Charger 35A	12	28	1	3100	12	28	1	Z-Charger 36A	12	28	1	3100	12	28	1	Z-Charger 37B	12	28	1	3040	12	28	1	Emergency Light 16E	12	28	1	3040	12	28	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Y-Charger 37A	12	28	1	3100	12	28	1	Y-Charger 38A	12	28	1	3100	12	28	1	Y-Charger 39B	12	28	1	3040	12	28	1	Emergency Light 17E	12	28	1	3040	12	28	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Y-Charger 39A	12	28	1	3100	12	28	1	Y-Charger 40A	12	28	1	3100	12	28	1	Y-Charger 41B	12	28	1	3040	12	28	1	Emergency Light 18E	12	28	1	3040	12	28	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SHORT CIRCUIT CALCULATIONS

F1 = 300,00 VA / 240V / 1.732 x 100 / 1.6 = 45,106 A

THE VALUE IS BASED ON THE INFINITE BUSS MODEL AND A TRANSFORMER IMPEDANCE OF 1.6% AS RECOMMENDED BY DTE STANDARDS.

Starline Construction, Michigan Inc.
3754 Rosewood Park Drive
Ann Arbor MI U.S.A.
48108-2216
Tel: 734-761-1010
Fax: 734-761-0000
www.starline.com

COMMUNITY SERVICES AREA - CITY OF ANN ARBOR
LESLIE PARK GOLF COURSE
GOLF CART STORAGE BUILDING

WIRING DIAGRAMS AND SCHEDULES

SCALE PLAN: 1"=5'

DRAWING NO. 2075135200

E-102

SHEET NO. 16 OF 16

PREPARED BY: [Signature]

DATE: 04.27.2016

REVISED BY: [Signature]

DATE: 03.21.2016

DESCRIPTION: 90% REVIEW SET

2 BID SET

1 90% REVIEW SET

REV.

KNOW WHATS BELOW CALL

Before you dig.