

CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE

226 11TH STREET

DEWITT, IOWA 52742

IIV, P.C.



ARCHITECTURE
CIVIL ENGINEERING
CONSTRUCTION SERVICES
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I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

FOR IIV, P.C.

GEOFFRY T. BLANDIN	DATE
PE 15274	12/31/2015
LICENSE #	RENEWAL DATE

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:
"C" SERIES SHEETS

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MICHAEL A. RUDEN

SIGNATURE	DATE
6/30/2014	12/22/2010
REGISTRATION EXPIRES	DATE ISSUED

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FOR IIV, P.C.

ERIC J. HELMINIAK	DATE
PE 18295	12/31/2014
LICENSE #	RENEWAL DATE

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FOR MEP ENGINEERS

RYAN LARSON, PE	DATE
PE 20881	12/31/2015
LICENSE #	RENEWAL DATE

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FOR MEP ENGINEERS

STEVEN V. SALLWASSER	DATE
PE 19850	12/31/2015
LICENSE #	RENEWAL DATE

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:
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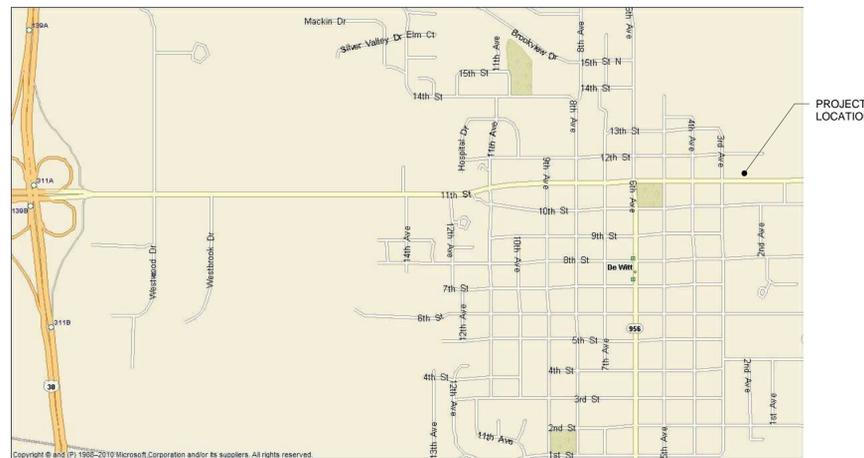
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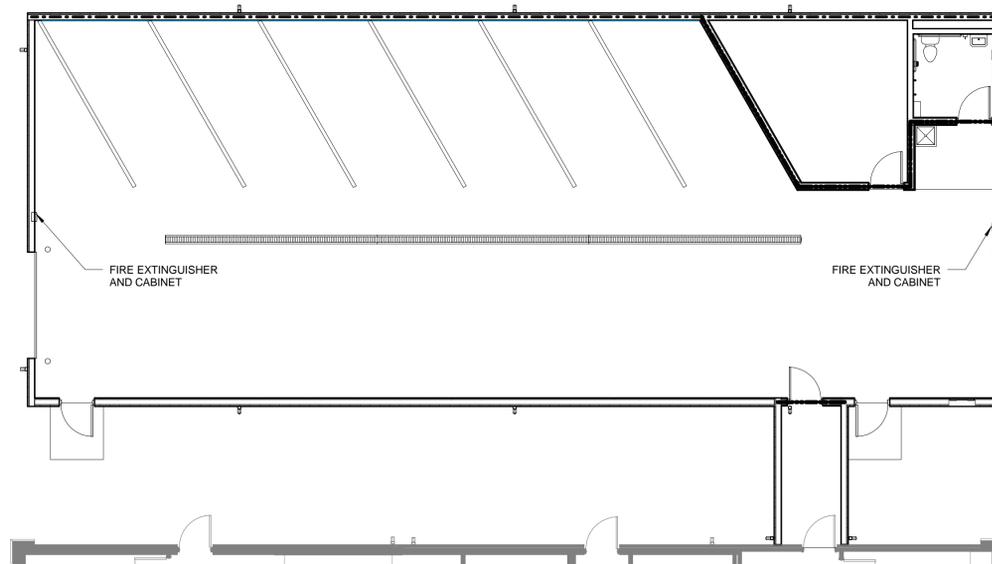
PROJECT LOCATION



226 11TH STREET
DEWITT, IOWA 52742

SHEET LIST

SHEET NUMBER	SHEET NAME
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S2.1	ROOF FRAMING PLAN AND DETAILS
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E1.1	ELECTRICAL PLAN



GENERAL CODE REVIEW

GOVERNING CODE: IBC 2009
IFC 2009

OCCUPANCY GROUP: UTILITY AND MISCELLANEOUS (U) PER 312.1 and 406.1

PROPOSED TOTAL AREA GROSS: 3,250 S.F.
2 HOUR FIRE WALL SHALL BE PROVIDED TO KEEP AREAS UNDER ALLOWED 3,000 SQ. FT PER AREA PER 406.1. AND TABLE 706.4.

TYPE OF CONSTRUCTION
TYPE V-B (TABLE 601)
0 HR FIRE RATING FOR ALL BUILDING ELEMENTS REQUIRED

ALLOWABLE HEIGHTS & AREAS
TYPE V-B (TABLE 503) GROUP U - 1 STORY AND 3,000 SQ. FT MAX AREAS PER 406.1

MEANS OF EGRESS
PROPOSED DESIGN OCCUPANT LOAD (TABLE 1004.1.1)
U - (PARKING GARAGE): 3,250 S.F. / 200 S.F. / OCCUPANT GROSS = 17 OCCUPANTS

EXIT ACCESS (IBC SECTION 1021.1 EXCEPTION 2)
U (UTILITY): (1) EXIT REQUIRED PER TABLE 1021.2 - U OCCUPANCY
U (UTILITY) WITHOUT AUTOMATIC SPRINKLER SYSTEM = 300FT

MAXIMUM TRAVEL DISTANCE TO EXIT (TABLE 1016.1)
U (UTILITY) WITHOUT AUTOMATIC SPRINKLER SYSTEM = 300FT

WALLS WITH --- DESIGNATION SHALL BE 1 HOUR FIRE WALL AND WALLS WITH - - - DESIGNATION SHALL BE 2 HOUR FIRE WALLS.

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

COVER SHEET
 CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
 226 11TH STREET
 DEWITT, IOWA 52742

Project Description:	Project Mgr:	Date	By
CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE	IIW	01/20/14	MRF

Sheet No: **G1.0**
Project No: 11176-06

ABBREVIATIONS

∠	ANGLE
Δ	CENTRAL ANGLE
AB	ANCHOR BOLT
A/C	AIR CONDITIONING(ER)
AC	ACRES
AD	ALGEBRAIC DIFFERENCE
ADDL	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATING
ALUM	ALUMINUM
ANCH.	ANCHOR
AOH	ARROW ON HYDRANT
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVG	AVERAGE
B-B	BACK OF CURB TO BACK OF CURB
B.B.	BOND BEAM
B/C	BACK OF CURB
B/DITCH	BOTTOM OF DITCH
BFP	BACKFLOW PREVENTOR
B/L	BASE LINE
B.L.	BRICK LEDGE
B/S	BOTTOM OF SLOPE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BNT	BENT
BM	BEAM
B.M.	BENCH MARK
BOP	BEGINNING OF PROJECT
BOT	BOTTOM
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
BV	BUTTERFLY VALVE
C&G	CURB AND GUTTER
CANT	CANTILEVER
CATV	CABLE TELEVISION
CB	CATCH BASIN
C-C	CENTER TO CENTER
CF	CUBIC FEET
CH	CHORD
CH BRG	CHORD BEARING
CIP	CAST IRON PIPE
C-I-P	CAST-IN-PLACE
CISP	CAST IRON SOIL PIPE
CJ	CONTROL JOINT
-C CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CORR	CORRUGATED
CP	CONTROL POINT
CPE	CORRUGATED POLYETHYLENE PIPE
CRST	CRUSHED STONE
CSP	CORRUGATED STEEL PIPE
CTRD	CENTERED
CTR	CENTER
CU	CUBIC
CULT	CULTIVATED
CV	CHECK VALVE
CY	CUBIC YARD

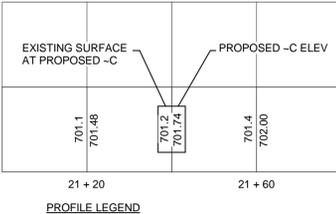
D	DEGREE OF CURVE
DEFL	DEFLECTION
DIA ()	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DNST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
E	EAST
E'LY	EASTERLY
EA	EACH
E.E.	EACH END
E.F.	EACH FACE
EFF	EFFECTIVE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
ENTR	ENTRANCE
EOP	END OF PROJECT
EOR	END OF RADIUS
E/P	EDGE OF PAVEMENT
EQ	EQUAL
E/S	EDGE OF SHOULDER
ESMT	EASEMENT
EST	ESTIMATE
EX	EXISTING
EXC	EXCAVATE/EXCAVATION
EXP	EXPANSION
EXT	EXTERIOR
EXTD	EXTEND
EW	EACH WAY
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
F.E.	FIELD ENTRANCE
FES	FLARED END SECTION
F-F	FACE TO FACE
F&I	FURNISH & INSTALL
F.F.	FAR FACE
FFE	FINISH FLOOR ELEVATION
FG	FORM GRADE
FIN GR	FINISHED GRADE
FL	FLOWLINE
FLG	FLANGE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FOW	FACE OF WALL
FRM	FRAME
F.S.	FAR SIDE
FT	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
G	GUTTER
GA	GAGE
GC	GENERAL
GALV	GALVANIZED
GL	GLUE LAMINATED
GND	GROUND
GRAN	GRANULAR
GRD	GRADE
GV	GATE VALVE
GYP	GYPSON

HD	HEAD
H.E.F.	HORIZONTAL EACH FACE
H.I.F.	HORIZONTAL INSIDE FACE
HK	HOOK
H.M.	HOLLOW METAL
HMA	HOT MIX ASPHALT
H.O.F.	HORIZONTAL OUTSIDE FACE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPT	HIGH POINT
H.S.A.	HEADED STUD ANCHOR
H.S.S.	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HYD	HYDRANT
ID	INSIDE DIAMETER/INSIDE DIMENSION
IE	INVERT ELEVATION
I.F.	INSIDE FACE
I.J.	ISOLATION JOINT
IMP	IMPROVEMENTS
IN	INCHES
INFO	INFORMATION
INSP	INSPECTION
INST	INSTALLATION
INSUL	INSULATION
INTL	INTERIOR
INTR	INTERSECTION
INV	INVERT
IP	IRON PIPE
JB	JUNCTION BOX
JT	JOINT/JOINT LENGTH
JST(S)	JOIST(S)
K	RATE OF VERTICAL CURVATURE
K	KIPS
K/FT	KIPS PER FOOT
KIP	1 KP = 1,000 LBS
KSF	KIPS PER SQUARE FOOT
L	LENGTH OF CURVE
LAT	LATERAL
LB/#	POUND
LF	LINEAL FOOT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LIGHT POLE
LPT	LOW POINT
LT	LEFT
LTL	LINTEL
LW	LIGHT WEIGHT
MAS	MASONRY
MAX	MAXIMUM
MBR	MEMBER
ME	MATCH EXISTING
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MICRO LAMINATED WOOD
MO	MOISTURE RESISTANT
MOD	MODIFY
MON	MONUMENT
MS	METAL STUD
MTD	MOUNTED

N	NORTH
N/A	NOT APPLICABLE, NOT AVAILABLE
NE'LY	NORTHEASTERLY
N.F.	NEAR FACE
N'LY	NORTHERLY
NO#	NUMBER
N.S.	NEAR SIDE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
NW'LY	NORTHWESTERLY
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
O.H.	OVERHEAD
OP'G	OPENING
OPP	OPPOSITE
PC	POINT OF CURVE
P.C.	PRECAST/PRESTRESSED CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCC	PORTLAND CEMENT CONCRETE
PED	PEDESTAL/PEDESTRIAN
PERF	PERFORATED
PERIM.	PERIMETER
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
-P	PLATE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAL FOOT
PLK	PLANK
PM	PRINCIPAL MERIDIAN
POB	POINT OF BEGINNING
POC	POINT OF CURVE
POT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVE
PROJ.	PROJECTION
PROP	PROPOSED
PRV	PRESSURE REDUCING
PS	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PAINTED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R	RADIUS
R.D.	ROOF DRAIN
R&R	REMOVE & REPLACE
R&S	REMOVE & SALVAGE
RCB	REINFORCED CONCRETE BOX
RCP	REFLECTED CEILING PLAN
RD	ROAD
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCING/REINFORCED
REM	REMAINDER
REQ	REQUIRED
REV	REVISION
RIM	RIM ELEVATION
R.O.	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAILROAD
RS	RESILIENT SEAT
RT	RIGHT

S	SOUTH
S=	SUPERELEVATION
SAN	SANITARY
SANS	SANITARY SEWER
SB	SOIL BORING
SCH	SCHEDULE
SD	SUB DRAIN
SOL	SUPERIMPOSED DEAD LOAD
SEC	SECTION
SE'LY	SOUTHEASTERLY
SF	SQUARE FOOT
S.F.	SPLIT FACE
S.F.D.	STEP FOOTING DOWN
SHT	SHEET
SIG.	SIGNAL
SIM.	SIMILAR
S'LY	SOUTHERLY
SLL	SUPERIMPOSED LIVE LOAD
SOG	SLAB ON GRADE
SPC	SPACE
SPEC	SPECIFICATION
SQ	SQUARE
ST	STREET
STA	STATION
STAG.	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STM	STORM
STMS	STORM SEWER
STR	STRUCTURE/STRUCTURAL
SUPP	SUPPORT
SW'LY	SOUTH-WESTERLY
SY	SQUARE YARD
SYM	SYMBOL
SYMM	SYMMETRICAL
T	TANGENT LENGTH
T/B	TOP OF BANK
T/DITCH	TOP OF DITCH
T/C	TOP OF CURB
T/GRV	TOP OF GRAVEL
T/WALL	TOP OF WALL
T/P	TOP OF PAVEMENT
T/S	TOP OF SLOPE
T/SUB	TOP OF SUBGRADE
T/W	TOP OF WALK
T & B	TOP AND BOTTOM
T.O.B.	TOP OF BEAM
T.O.B.L.	TOP OF BRICK LEDGE
T.O.C.	TOP OF CONCRETE
T.O.E.F.	TOP OF EXISTING FOOTING
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINATE
TGB	TOP OF GRADE BEAM
THD	THREAD
THK	THICK/THICKNESS
TPD	TEMPERED
TPG	TOPPING
TRANS.	TRANSVERSE
TS	TUBE STEEL
TWP	TOWNSHIP
TYP	TYPICAL
U	UTILITY
UAC	USE AS CONSTRUCTED
UE	UTILITY EASEMENT
UL	UNDERWRITERS LABORATORIES, INC.
ULFM	UNDERWRITERS LABORATORIES FACTORY MUTUAL
UNO	UNLESS NOTED OTHERWISE

VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
V.E.F.	VERTICAL EACH FACE
VER	VERIFY
VERT	VERTICAL
V.I.F.	VERTICAL INSIDE FACE
V.O.F.	VERTICAL OUTSIDE FACE
VOL	VOLUME
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
W/	WITH
W'LY	WESTERLY
WM	WATER MAIN
W/O	WITHOUT
W.P.	WORKING POINT
WD	WOOD
WND	WINDOW
WSO	WATER SHUT OFF
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
X	CROSS
XSTG	EXTRA STRONG
XXSTG	DOUBLE EXTRA STRONG
YD	YARD



LEGEND

EXISTING	PROPOSED

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ABBREVIATIONS AND LEGENDS
CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
226 11TH STREET
DEWITT, IOWA 52742

Project Description:	11172014.1.04-03.dwg
Drawing Issue Information:	Project Mgr: MAR
Project Mgr: MAR	Issued For: Bidding
Drawn By: IIW	Issued For: Construction
CONSTRUCTION DOCUMENTS	Date
Rev	Date
1	01/20/14
2	01/20/14
3	01/20/14
4	01/20/14
5	01/20/14
6	01/20/14
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50	01/20/14

Sheet No: **G1.1**
Project No: 11176-06

GENERAL SYMBOLS

	EARTH
	FREE DRAINING FILL OR GRAVEL (DESIGNATE ON DRAWINGS)
	ASPHALT PAVING
	CONCRETE (CAST IN PLACE OR PRECAST)
	BRICK IN ELEVATION
	FACE BRICK
	CONCRETE BLOCK (CMU)
	GLAZED TILE
	CUT STONE
	STRUCTURAL STEEL
	ROUGH LUMBER
	WOOD STUD WALL
	FINISHED WOOD
	PLYWOOD

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GENERAL SURVEY CONTROL & UTILITY INFO
 CLINTON COUNTY SATELLITE OFFICE - 2014
 SITE CONSTRUCTION
 DEWITT, IOWA
 P:\11176\176-02\DRAWINGS\CIVIL\11176-ZZ-00.dwg 1/17/2014 12:25 PM TROY CHRISTIANSON

HORIZONTAL CONTROL

THE HORIZONTAL COORDINATES ON THIS PROJECT ARE BASED ON NAD 83 IOWA STATE PLAN COORDINATE SYSTEM, SOUTH ZONE.

HORIZONTAL CONTROL SEE SHEET C1.01 FOR PLAN LOCATIONS

Number	Northing (USSurveyFoot)	Easting (USSurveyFoot)	Elevation (USSurveyFoot)	Description
30221	679223.482	2448830.341	706.06	SET NAIL MAG
30222	679330.646	2448655.963	711.14	SET NAIL MAG
30223	679348.131	2448827.335	708.17	SET NAIL MAG
30412	679368.882	2448765.216	710.43	FOUND ROD 5/8
30413	679214.773	2448624.733	711.16	FOUND ROD 5/8 YELLOW CAP 4204
30414	679210.451	2448558.829	713.41	FOUND ROD 5/8 BENT STRAIGHT REPLACE
30415	679242.135	2448887.598	704.99	FOUND ROD 1/2 BENT STRAIGHT REPLACE
30416	679375.07	2448879.274	706.95	FOUND ROD 5/8 NO CAP
30417	679372.926	2448840.347	708.42	FOUND ROD 5/8 NO CAP
30419	679344.139	2448619.407	712.58	FOUND ROD 5/8 CAP 4204

NOTE: ELEVATIONS OF HORIZONTAL CONTROL POINTS ARE PROVIDED FOR INFORMATION ONLY AND MAY BE SUBJECT TO VERTICAL MOVEMENT. IT SHALL BE THE RESPONSIBILITY OF ANYONE MAKING USE OF THESE ELEVATIONS TO VERIFY THEM WITH VALID BENCHMARKS AS LISTED ON THESE PLANS.

VERTICAL CONTROL

THE ELEVATIONS ON THIS PROJECT ARE BASED ON NAVD 1988

BENCH MARKS SEE SHEET C1.01 FOR PLAN LOCATIONS

Number	Northing (USSurveyFoot)	Easting (USSurveyFoot)	Elevation (USSurveyFoot)	Description
BM 1 (IIW PNT #30411)	679222.125	2448925.372	706.53	ARROW ON HYDRANT

UTILITY PROVIDERS:

- WATER, SANITARY SEWER AND STORM SEWER: CITY OF DEWITT, 510 9TH ST. DEWITT, IA 52742, CONTACT: ABE FOX 563-528-1506 (CELL)
- ELECTRICAL/GAS: ALLIANT ENERGY, JASON HOGAN 608-458-4871, CELL 608-395-7395, IMMEDIATE ASSISTANCE 800-255-4268
- CABLE TELEVISION: MEDIACOM, 112 NORTH 2ND STREET CLINTON, IA 52733, CONTACT: LARRY LEONARD 800-332-0245
- TELECOMMUNICATIONS: GRAND MOUND COOPERATIVE TELEPHONE ASSOCIATION, HARRY SLAYMAKER HSLAYMAKER@GMCTA.COOP, CHRIS BEUTHIEN CBEUTHIEN@GMCTA.COOP, 563-847-3000
- TELECOMMUNICATIONS: CENTURY LINK DOES NOT SERVICE LOCAL AREA BUT MAY HAVE CABLE OR FIBER IN THE AREA. STEVE PARKER AT 515-265-0968 (STEVEN.PARKER4@CENTURYLINK.COM) MAY BE CONTACTED FOR UTILITY COORDINATION
- OWNER: CLINTON COUNTY IOWA, 1900 NORTH 3RD STREET CLINTON, IA 52732, COREY JOHNSON 563-243-2160

UTILITY NOTE

THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE UTILITIES PRESENT MAY NOT EXIST AS SHOWN. ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT. IT SHALL BE THE RESPONSIBILITY OF ANYONE USING THIS DOCUMENT TO ASCERTAIN THE EXACT LOCATION, SIZE, TYPE, MATERIAL, AND ELEVATION OF ALL UTILITIES THAT MAY BE PRESENT.

Project Description:

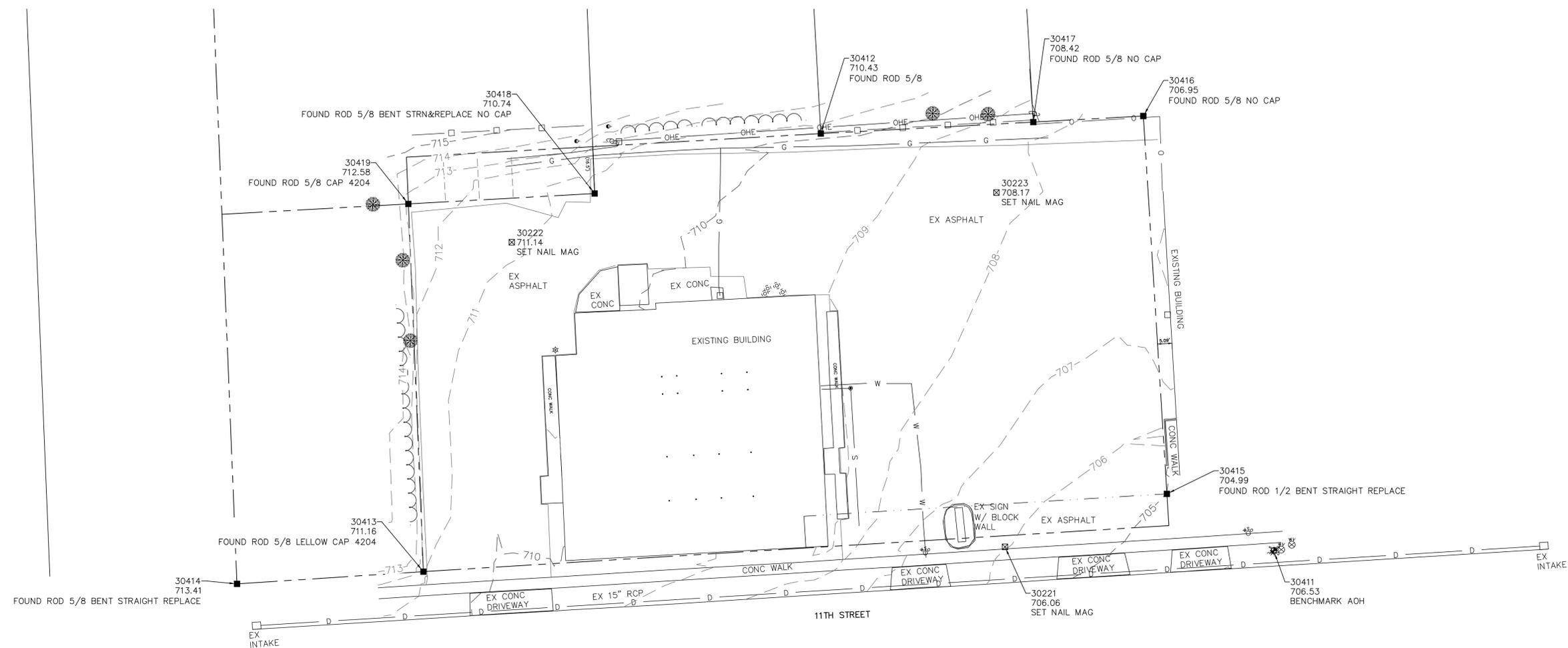
Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	1-20-14	

Drawing Issue Information
 Project Mgr: G1TB
 Issued For Bidding: .
 Drawn By: TDC/JMV
 Issued For Construction: 1-20-14



HORIZONTAL SCALE IN FEET
 0 20 40
 DRAWING MAY HAVE BEEN REDUCED

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EXISTING CONDITIONS
 CLINTON COUNTY SATELLITE OFFICE - 2014
 SITE CONSTRUCTION
 DEWITT, IOWA

Project Description:

Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	1-20-14	

Drawing Issue Information
 Project Mgr: GTB
 Issued For Bidding: .
 Drawn By: TDC/JMV
 Issued For Construction: 1-20-14

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SITE DESCRIPTION

- THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS FOR CONSTRUCTION ACTIVITIES INCLUDING CLEARING, EXCAVATION, GRADING, UTILITIES AND PREPARATION FOR SEEDING. LOCATED AT 226 11TH STREET, IN THE CITY OF DEWITT, CLINTON COUNTY, IOWA
- THIS SWPPP COVERS AN ESTIMATED 0.98 ACRES DISTURBED AREA.
- THE SWPPP IS LOCATED ON THE BORDER OF THE TAMA-MUSCATINE-DOWNS AND THE SPARTA-CHELSEA SOIL ASSOCIATION. THE ESTIMATED RUNOFF COEFFICIENT (C) FOR THE SITE AFTER COMPLETION WILL BE ????.
- REFER TO THIS SHEET FOR SITE MAP INDICATING DRAINAGE PATTERNS, TYPICAL SLOPES, AREAS OF SOIL DISTURBANCE, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS, ETC.
- RUNOFF FROM THIS SITE WILL BE DISCHARGED TO THE CITY STORM SEWER INTO SILVER CREEK TO WAPSIPINICON RIVER TO THE MISSISSIPPI RIVER.

CONTROLS

- PRIOR TO BEGINNING GRADING, EXCAVATION OR CLEARING AND GRUBBING OPERATIONS, SILT FENCE SHALL BE PLACED ALONG THE PERIMETER OF ALL AREAS TO BE DISTURBED AT ANY LOCATION WHERE RUNOFF CAN MOVE OFFSITE.
- VEGETATION IN AREAS NOT INCLUDED IN THE CONSTRUCTION AREA SHALL BE PRESERVED. THE DESIGNATED WETLAND AREA SHOWN IS NON-JURISDICTIONAL AND CAN BE DISTURBED, PERMANENTLY (I.E. REMOVED AND NOT REPLACED).
- DEPENDING ON CONTRACTOR OPERATIONS, AND AS AREAS REACH THEIR FINAL GRADE, THE LOCATION OF EROSION CONTROLS MAY NEED TO BE CHANGED OR ADDITIONAL CONTROLS MAY NEED TO BE PLACED.
- OFF-SITE VEHICLE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. ROADWAYS ADJACENT TO THE PROJECT SITE SHALL BE CLEANED OF SEDIMENT DAILY.
- STABILIZATION PRACTICES, INCLUDING TEMPORARY OR PERMANENT SEEDING AND/OR MULCHING SHALL BE INITIATED ON ALL DISTURBED AREAS AS SOON AS PRACTICAL BUT IN NO CASE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS LATER THAN THE 14TH DAY AFTER NO CONSTRUCTION ACTIVITY HAS OCCURRED ON SUCH AREA.
- CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
- STOCKPILE AREAS WHICH REMAIN FOR MORE THAN 7 DAYS SHALL BE SEEDED, MULCHED AND ENCLOSED BY SILT FENCE.
- SLOPES STEEPER THAN 10:1 AND LONGER THAN 20 FEET SHALL BE PROTECTED BY AN EROSION CONTROL MAT LANDLOK S1 AS MANUFACTURED BY SI GEOSOLUTIONS OR EQUAL, OR TACKIFIED STRAW MULCH WITH THE ASSOCIATED PROCEDURES OUTLINED IN THE SPECIFICATIONS.
- DUST CONTROL MEASURES SHALL BE EMPLOYED IF DUST IS CREATED AND THERE IS POTENTIAL FOR AIR AND/OR WATER POLLUTION FROM DUST TRANSPORTED BY WINDS. DUST CONTROL MEASURES SUCH AS SPRINKLING/IRRIGATION, MULCHING, OR OTHER APPROPRIATE MEASURES SHALL BE EMPLOYED AS NECESSARY. THERE IS CURRENTLY NO WATER AVAILABLE AT THE SITE. AVAILABILITY OF WATER AT THE SITE IS UNKNOWN AT THIS TIME.
- THE CONTRACTOR SHALL PLACE ANY OTHER CONTROLS AS DESCRIBED IN THE ABOVE NOTED SPECIFICATIONS AS DEEMED NECESSARY TO CONTROL RUNOFF FROM EXPOSED SITES.
- THE WORK WILL BE COMPLETED WITH THE ESTABLISHMENT OF PERMANENT PERENNIAL VEGETATION WITH A DENSITY OF 70% OR EQUIVALENT STABILIZATION MEASURES ON ALL DISTURBED AREAS.

MAINTENANCE

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. CLEANING OF SILT CONTROL DEVICES SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY OR WHEN THE SEDIMENT LEVEL REACHES 1/3 OF THE BARRIER HEIGHT.

INSPECTIONS

- INSPECTIONS SHALL BE MADE JOINTLY BY QUALIFIED PERSONNEL PROVIDED BY THE OWNER AND THE CONTRACTOR OF ALL DISTURBED AREAS OF THE SITE NOT FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT THAT IS 0.5 INCHES OR GREATER.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS SHALL BE INSPECTED FOR EVIDENCE OF POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING PROPERLY. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR OFFSITE SEDIMENT TRACKING. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- THE CONTRACTOR SHALL IMMEDIATELY BEGIN CORRECTIVE ACTION ON ALL DEFICIENCIES FOUND.
- THIS INSPECTION MAY REQUIRE REVISIONS TO THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN. THE CONTRACTOR SHALL IMPLEMENT ALL REVISIONS TO THE PLAN DEEMED NECESSARY AND COMPLETE SUCH CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS OF THE INSPECTION.
- A WRITTEN REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, THE NAMES AND QUALIFICATIONS OF THE INSPECTORS, THE DATE, AND THE OBSERVATIONS MADE AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS PART OF THE SWPPP. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE PERMIT.
- THE PLAN SHALL BE SIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 AND BE RETAINED AT THE CONSTRUCTION SITE FROM THE DATE CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION.

SEQUENCE

- INSTALL CONSTRUCTION ENTRANCE
- PLACE SILT FENCE, NORTHEAST CORNER OF SITE.
- PROCEED WITH GRADING AND EXCAVATION
- INSTALL INLET PROTECTION ASSOCIATED WITH INLETS AS SOON AS IS PRACTICAL AFTER INSTALLING INLETS.
- COVER OR STABILIZE DISTURBED AREAS AS SOON AS PRACTICAL
- SEED DISTURBED AREA AS SOON AS POSSIBLE ONCE IT IS BROUGHT TO FINAL GRADE
- MAINTAIN ALL TEMPORARY PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FINALLY STABILIZED.

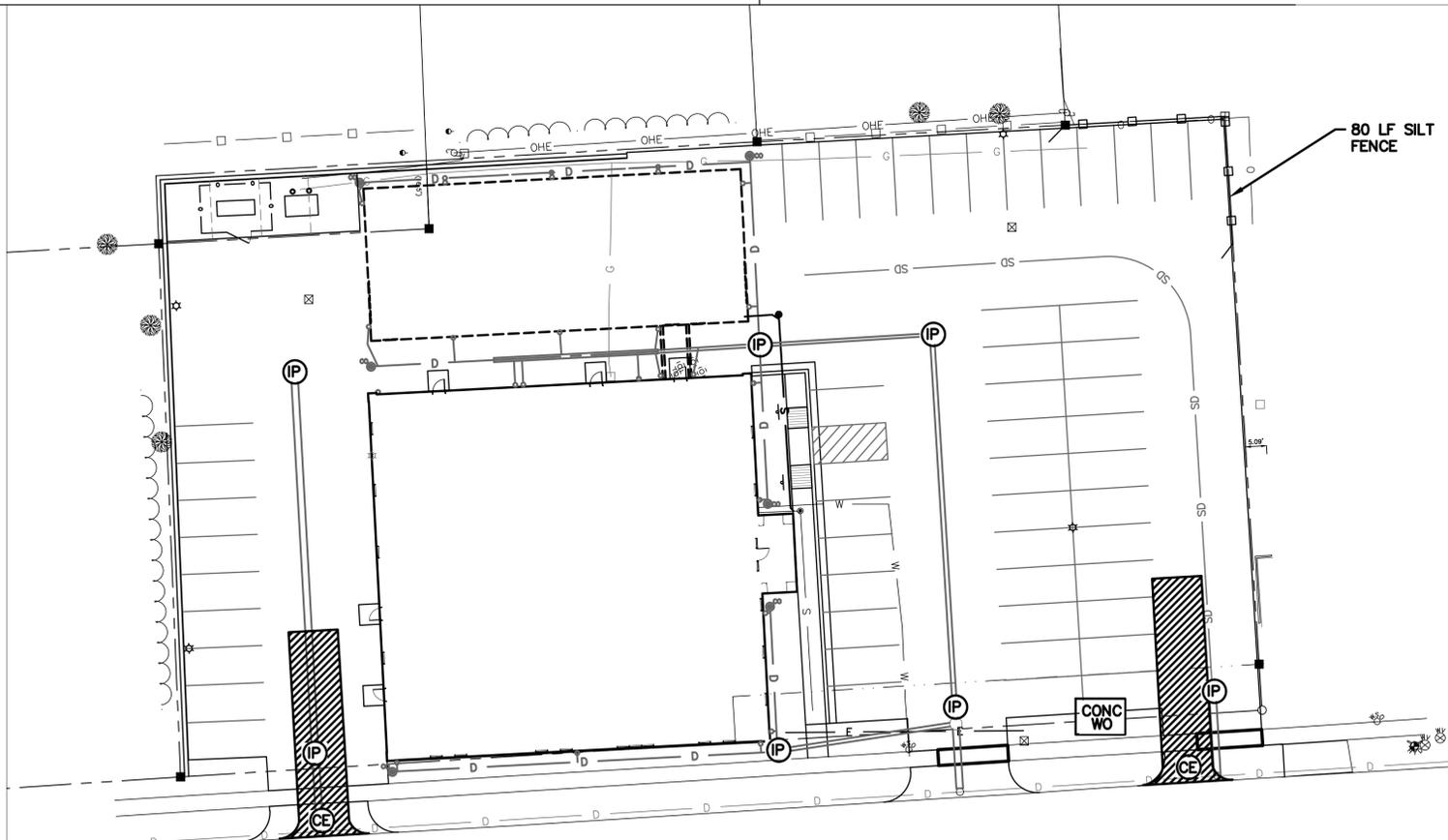
GENERAL NOTES

- ALL CONTRACTORS/SUBCONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT MINIMIZES EROSION AND PREVENTS SEDIMENT FROM LEAVING THE PROJECT SITE. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS SWPPP.
- A "NOTICE OF INTENT FOR NPDES COVERAGE UNDER GENERAL PERMIT NO. 2" HAS BEEN FILED WITH THE IOWA DEPARTMENT OF NATURAL RESOURCES.
- NOTICE OF DISCONTINUATION
WITHIN 30 DAYS AFTER FINAL STABILIZATION, THE OPERATOR, OWNER, OR OWNER'S REPRESENTATIVE OF THE FACILITY SHALL SUBMIT A NOTICE OF DISCONTINUATION TO THE IOWA DEPARTMENT OF NATURAL RESOURCES.
- NON-STORM WATER DISCHARGES
NON-STORM DISCHARGES MAY OCCUR FROM SUBSURFACE DRAINS INCORPORATED INTO THE PROJECT. THESE DISCHARGES WILL BE CONTROLLED BY STABILIZED OUTLETS.

EROSION CONTROL LEGEND

TEMPORARY	PERMANENT
TD DIVERSION	SR SURFACE ROUGHENING
CE CONSTRUCTION ENTRANCE	CD CHECK DAM
TS SEEDING	SC STONE CHECK
TM MULCHING	L LEVEL SPREADER
CRS CONSTRUCTION ROAD STABILIZATION	V VEG STREAMBANK STABILIZATION
SC STREAM CROSSING	S STRUCT STREAMBANK STABILIZATION
RD ROCK DAM	SD SOD DROP INLET PROTECTION
ST SEDIMENT TRAP	SD SLOPE DRAINS
IP INLET PROTECTION	RR RIPRAP LINED CHANNELS
LS LEVEL SPREADER	GL GRASS LINED CHANNELS (___ MATERIAL REQ'D)
DC DUST CONTROL	S SEDIMENT BASIN
SILT FENCE	PD DIVERSION
TEMPORARY FILTER SOCK	PS TOPSOILING
CONC WO CONCRETE WASH OUT	S SEEDING
	S SODDING
	OP OUTLET PROTECTION
	SFM SEED, FERTILIZE AND MULCH

NOTE: PERMANENT MAY BE USED AS TEMPORARY, TEMPORARY SHALL NOT BE USED AS PERMANENT.



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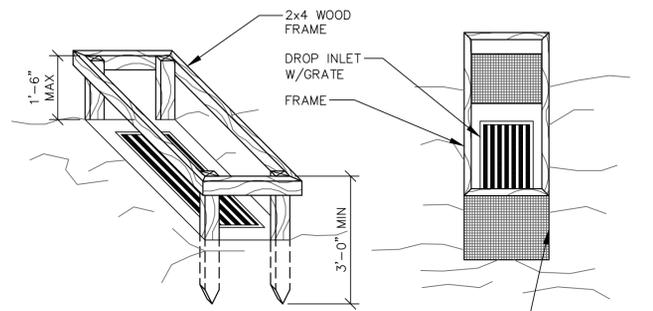
EROSION CONTROL PLAN AND NOTES

CLINTON COUNTY SATELLITE OFFICE - 2014
SITE CONSTRUCTION
DEWITT, IOWA

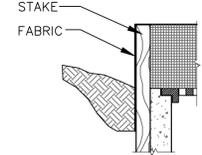
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Rev	Date	Description
1-20-14		CONSTRUCTION DOCUMENTS
1-20-14		
1-20-14		
1-20-14		
1-20-14		

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Project Mgr: G/TB
Issued For Bidding: .
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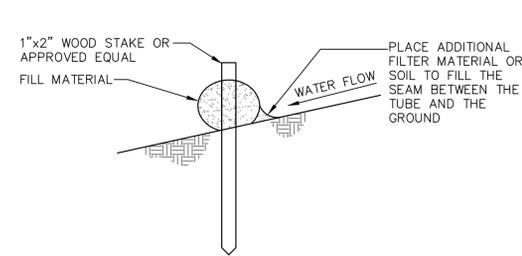
PERSPECTIVE VIEWS



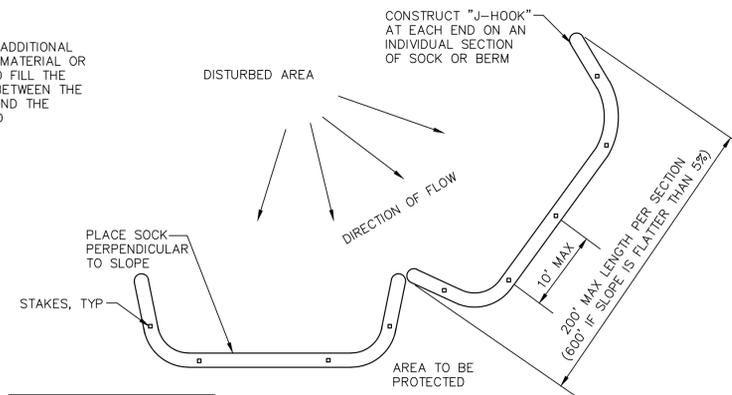
ELEVATION OF STAKE AND FABRIC ORIENTATION

SPECIFIC APPLICATION:
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

1
C2.02
DETAIL
INLET
PROTECTION
NOT TO SCALE



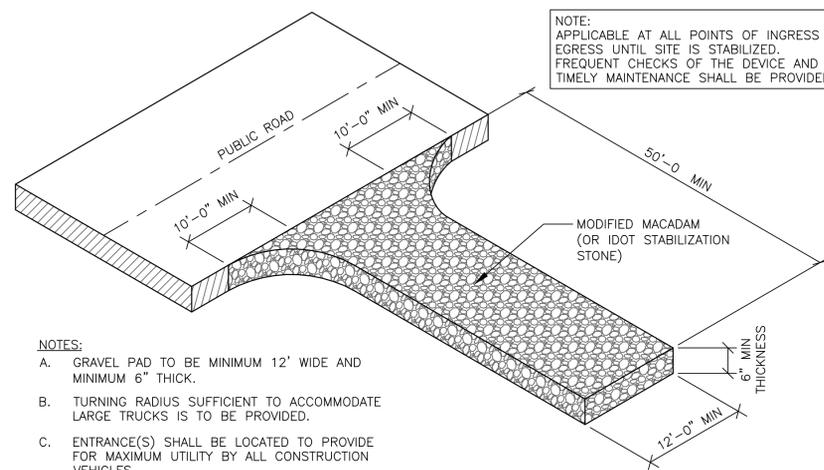
SECTION VIEW



LOCATION OF FILTER SOCK INDICATED ON PLANS WITH

2
C2.02
DETAIL
FILTER SOCK
NOT TO SCALE

- GENERAL NOTES:**
- PROTECTION SHOWN IS TYPICAL FOR SLOPES FLATTER THAN 3:1. FOR STEEPER SLOPES INCREASE SIZE AS DIRECTED BY THE ENGINEER.
 - FILTER SOCKS SHALL BE CONTINUOUS, TUBULAR, KNITTED MESH NETTING WITH $\frac{3}{8}$ INCH OPENINGS, CONSTRUCTED OF A 5 MIL THICKNESS PHOTODEGRADABLE 8" MINIMUM DIAMETER HDPE.
 - FOR INLET PROTECTION USE A CONTINUOUS TUBULAR KNITTED MESH NETTING WITH $\frac{3}{8}$ INCH OPENINGS, CONSTRUCTED OF 500 DENIER POLYPROPYLENE.
 - FILTER MATERIAL FOR USE IN SOCK AS SPECIFIED:
 - USE MATERIAL DERIVED FROM WOOD, BARK, OR OTHER NON-TOXIC VEGETATIVE FEEDSTOCKS.
 - USE MATERIALS WITH NO VISIBLE ADMIXTURE OF REFUSE OR OTHER PHYSICAL CONTAMINANTS, NOR ANY MATERIAL TOXIC TO PLANT GROWTH.
 - USE MATERIALS MEETING THE FOLLOWING PARTICLE SIZES: 100% PASSING THE 2" SIEVE SIZE, 90-100% PASSING THE 1" SIEVE SIZE, AND 0-30% PASSING THE $\frac{3}{8}$ " SIEVE SIZE.
 - THE TARGET FLOW RATE OF IN-PLACE MATERIAL IS 10 GAL/MIN/LF.

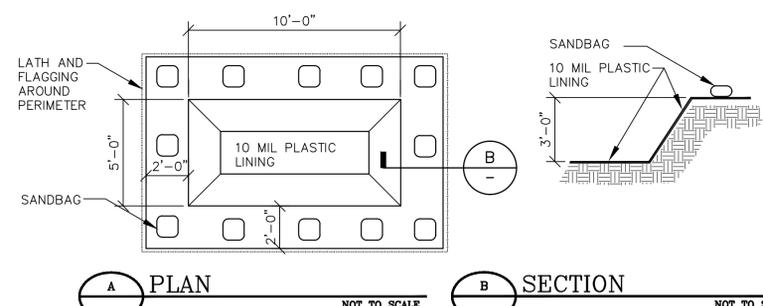


NOTE:
APPLICABLE AT ALL POINTS OF INGRESS & EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE SHALL BE PROVIDED.

- NOTES:**
- GRAVEL PAD TO BE MINIMUM 12' WIDE AND MINIMUM 6" THICK.
 - TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
 - ENTRANCE(S) SHALL BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
 - MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOP DRESSING WITH STONE IS REQUIRED.
 - ANY TRACKED MATERIAL ON THE PUBLIC ROAD MUST BE CLEANED UP DAILY.

3
C2.02
DETAIL
CONSTRUCTION
ENTRANCE
NOT TO SCALE

- NOTES:**
- WASHOUT FACILITY SHALL NOT BE LOCATED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR WATERBODIES.
 - WASHOUT FACILITIES MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED ONCE THE FACILITY IS 75% FULL. HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. IF THE FACILITY IS TO BE REUSED, LINE THE STRUCTURE WITH NEW 10 MIL POLYETHYLENE SHEETING FREE OF HOLES OR TEARS.
 - A SIGN SHALL BE POSTED ADJACENT TO THE FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS OF THE FACILITY OR THE JOB SITE SUPERINTENDENT SHALL ENSURE THAT CONCRETE EQUIPMENT OPERATORS USE THE WASHOUT FACILITY.
 - IF NECESSARY, A CRUSHED STONE PATH SHALL BE CONSTRUCTED TO PROVIDE EASE OF ACCESS FOR EQUIPMENT.
 - WHEN THE FACILITY IS NO LONGER REQUIRED, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF, THE MATERIALS USED TO CONSTRUCT THE FACILITY SHALL BE REMOVED, AND THE HOLE BACKFILLED AND THE SURROUNDING AREA REPAIRED.

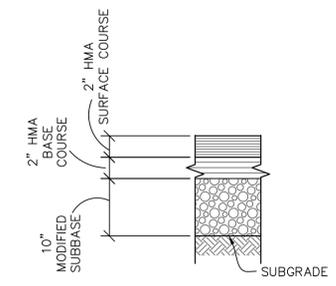


4
C2.02
DETAIL
CONC WASHOUT
NOT TO SCALE

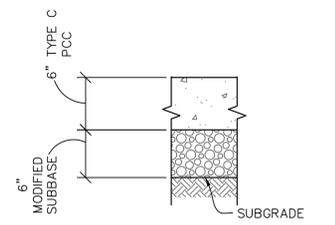
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2	1-20-14	GSTB	Issued For Construction
3	1-20-14	GSTB	Issued For Bidding
4	1-20-14	GSTB	CONSTRUCTION DOCUMENTS

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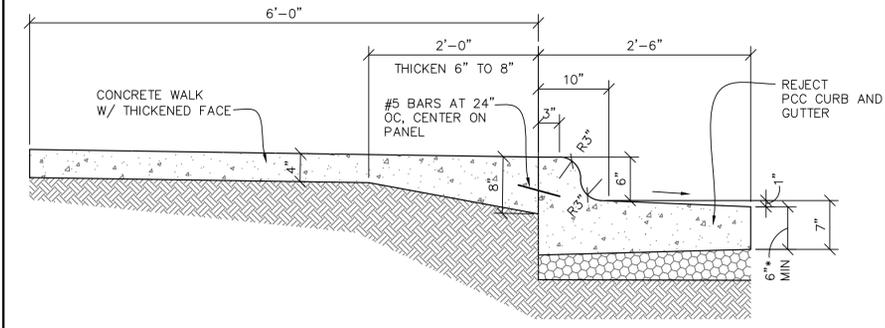
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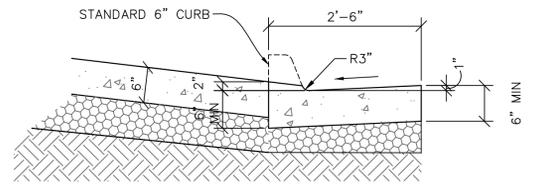
1 ASPHALT PAVING
 C6.01 TYPICAL PAVEMENT SECTION NOT TO SCALE



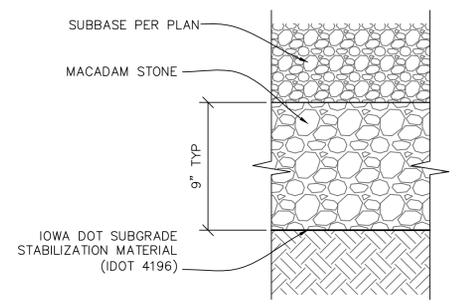
2 CONCRETE PAVING (DRIVEWAY APRONS)
 C6.01 TYPICAL PAVEMENT SECTION NOT TO SCALE



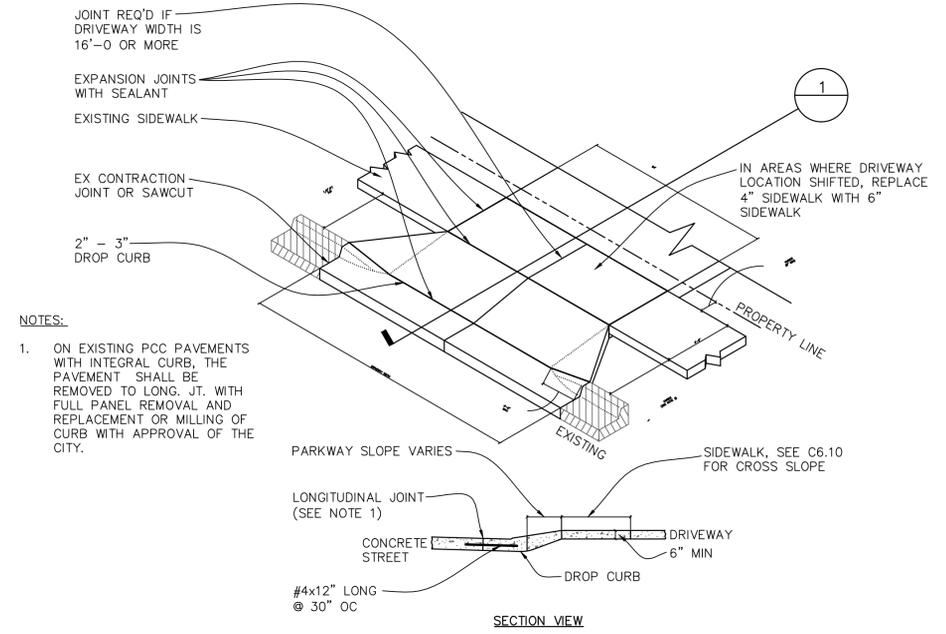
3 DETAIL
 C6.01 STANDARD REJECT CURB AND THICKENED FACE WALK NOT TO SCALE



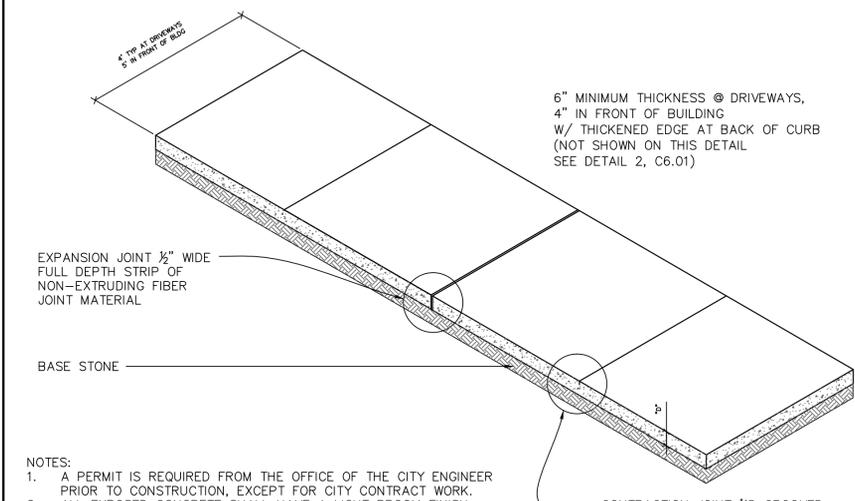
4 DETAIL
 C6.01 DROP CURB NOT TO SCALE



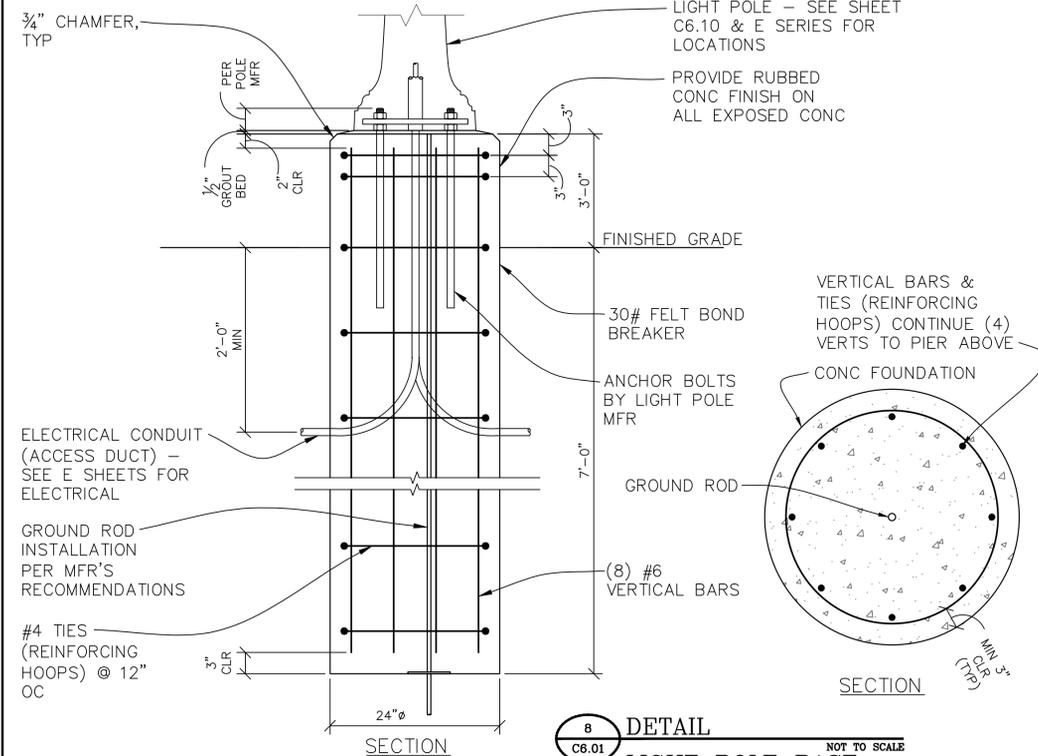
5 DETAIL
 C6.01 SUBGRADE STABILIZATION NOT TO SCALE



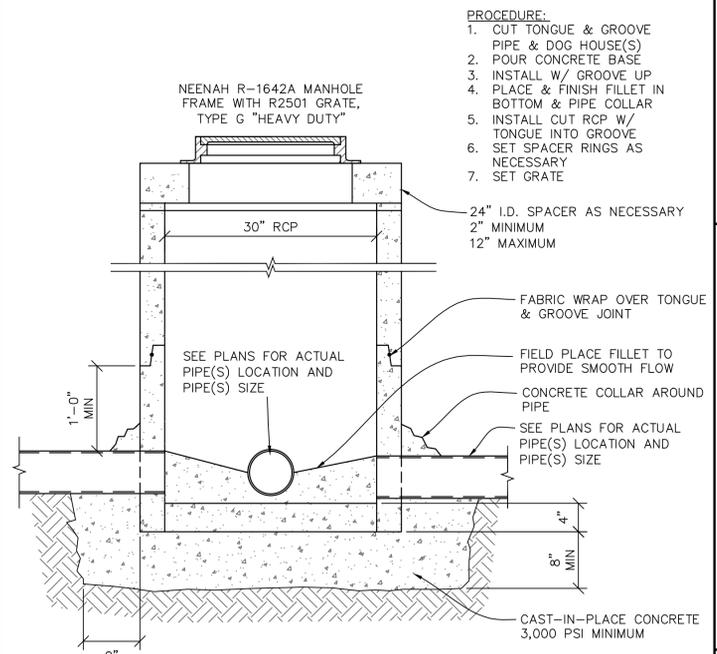
6 DETAIL
 C6.01 STANDARD DRIVEWAY NOT TO SCALE



7 DETAIL
 C6.01 STANDARD SIDEWALK NOT TO SCALE



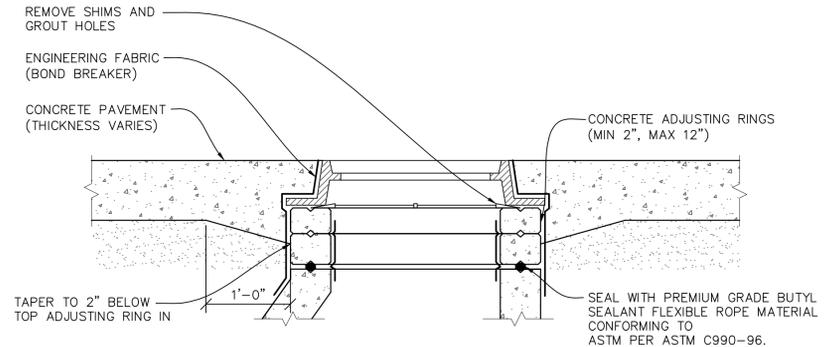
8 DETAIL
 C6.01 LIGHT POLE BASE NOT TO SCALE



9 DETAIL
 C6.01 30\"/>

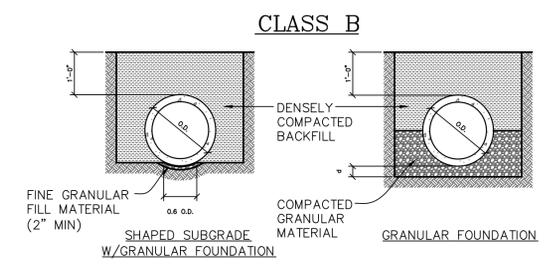
Project Description:

Drawn By: TDC/UMV
 Issued For Construction: 1-20-14
 Project Mgr: CTB
 Issued For Bidding: .
 CONSTRUCTION DOCUMENTS
 Sheet No:



USED TO ELIMINATE BOXOUT JOINTING—CASTING MOVES W/PAVEMENT & IS ISOLATED FROM MANHOLE SIDEWALL

1
 C6.02 DETAIL
 INLET FRAME INSTALLATION
 NOT TO SCALE

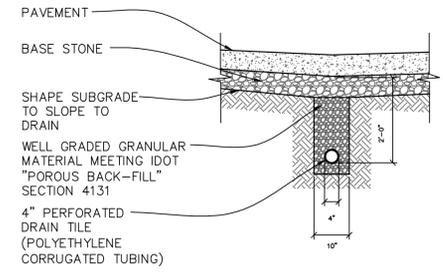


NOTE: FOR CLASS B BEDDINGS, SUBGRADE SHOULD BE EXCAVATED OR OVER-EXCAVATED, IF NECESSARY, SO A UNIFORM FOUNDATION FREE OF PROTRUDING ROCKS SHALL BE PROVIDED.

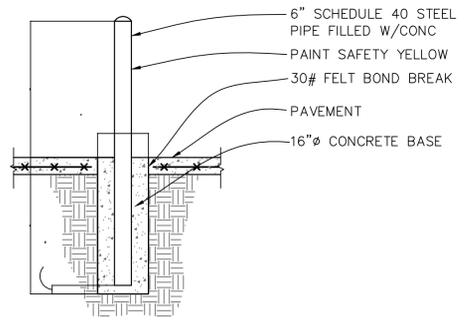
O.D.	OUTSIDE DIAMETER	DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	INSIDE DIAMETER	D	d (MIN)
d	DEPTH OF BEDDING MATERIAL BELOW PIPE	27" & SMALLER	3"
H	BACKFILL COVER ABOVE TOP OF PIPE	30" TO 60"	4"
		66" & LARGER	6"

	NATURAL SOIL		FINAL BACKFILL
	TAMPED SOIL		EMBEDMENT
	GRANULAR BEDDING		ROCK

2
 C6.02 DETAIL
 RCP BEDDING
 NOT TO SCALE



3
 C6.02 DETAIL
 PARKING LOT SUBDRAIN
 NOT TO SCALE



4
 C6.02 DETAIL
 TYPICAL BOLLARD
 NOT TO SCALE

PAVING/STORM
 DETAILS
 CLINTON COUNTY SATELLITE OFFICE - 2014
 SITE CONSTRUCTION
 DEWITT, IOWA
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Project Description:

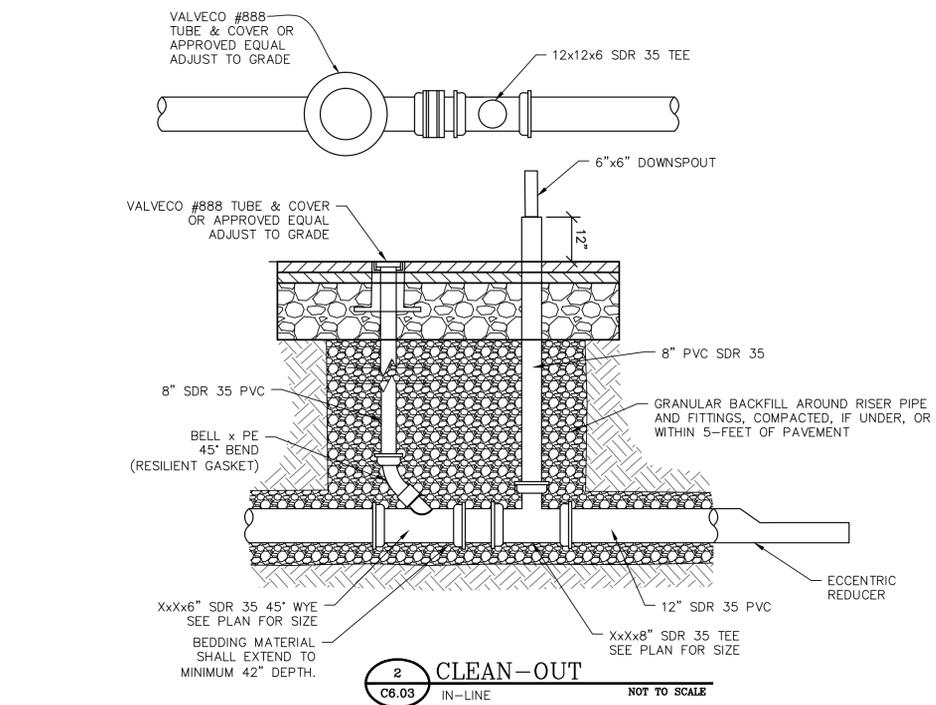
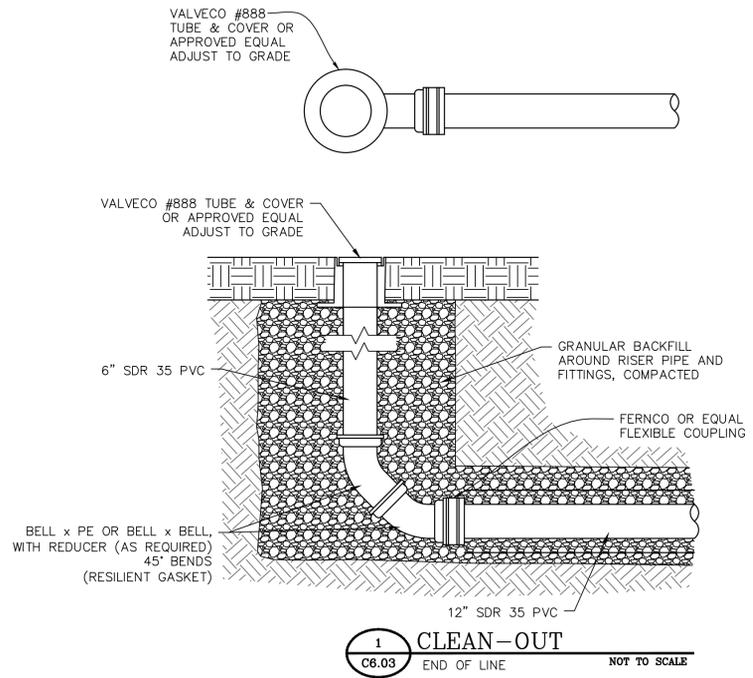
Drawn By: TDC/JMV	Issued For Construction: 1-20-14	By
Project Mgr: GTB	Issued For Bidding: .	Date
CONSTRUCTION DOCUMENTS	1-20-14	Date
Description		

Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	1-20-14	
2			
3			

Project Description: PAVING/STORM DETAILS

Drawn By: TDC/JMV
 Issued For Construction: 1-20-14

Project Mgr: GTB
 Issued For Bidding: . . .

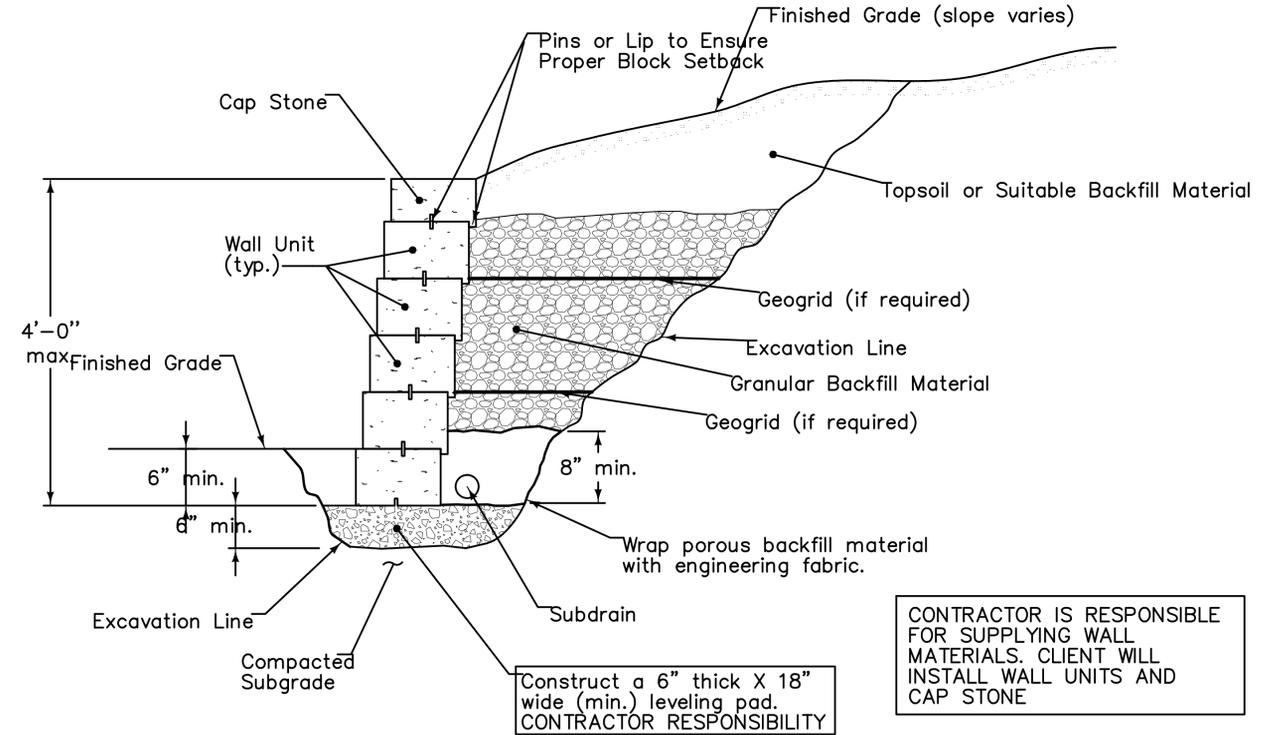


STORM SEWER NOTES:

1. FINAL BACKFILL SHALL BE SELECT TRENCH BACKFILL COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY -1 TO +3% FROM OPTIMUM MOISTURE IS REQUIRED FOR BACKFILLING ALL UTILITY PIPING DIRECTLY UNDER, AND WITHIN 5-FEET FROM PAVED AREAS. SELECT TRENCH BACKFILL SHALL BE APPROVED GRANULAR MATERIAL (MAXIMUM 10% PASSING THE #200 SCREEN) OR IOWA DOT SPECIAL BACKFILL (GRADATION #30) CRUSHED STONE PER IOWA DOT SECTION 4132.
2. THE 18" RCP STORM SEWER PIPE SHALL BE CLASS V, SEALED BY RUBBER GASKETS. BEDDING SHALL BE CLASS B AS INDICATED IN DETAIL 7/C1.1. THE 8", 10", AND 12" SUPPLEMENTAL STORM SEWER SHALL BE SDR35 PVC STORMWATER PIPE, AND SHALL BE SEALED BY RUBBER GASKETS. BEDDING FOR THE SUPPLEMENTAL STORM SEWER SHALL BE CLASS B GRANULAR FOUNDATION UNDER, OR WITHIN 5 FEET OF, PAVEMENT, AND CLASS C IN OTHER LOCATIONS.
3. FINAL BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY, WITHIN -1% TO +3% OPTIMUM MOISTURE (ASTM D698), IF DIRECTLY UNDER, OR WITHIN 5-FEET OF PAVED AREAS. FINAL BACKFILL UNDER GRASSY AREAS MAY BE BACKFILLED WITH TRENCH CUTTINGS, AND COMPACTED SUFFICIENTLY TO ENSURE NO TRENCH SETTLEMENT AT A LATER DATE.

SUBDRAIN NOTES:

1. MINIMUM TRENCH WIDTH SHALL BE 12" AT THE BOTTOM OF THE TRENCH. MINIMUM SLOPE SHALL BE 0.3%. COST OF SUBDRAIN INSTALLATION SHALL INCLUDE EXCAVATION AND GRANULAR ENVELOPE.
2. CRUSHED STONE GRANULAR ENVELOPE FOR SUBDRAIN SHALL BE 3/8 MAXIMUM SIZE, SIMILAR TO POROUS BACKFILL (IOWA DOT 4131).
3. ALL SUBDRAIN OUTLETS, INCLUDING CONNECTIONS TO CATCH BASINS SHALL INCLUDE INTALLATION OF A RODENT GUARD.
4. PERFORATED CPE SUBDRAIN MATERIALS SHALL MEET THE IOWA DOT REQUIREMENTS OUTLINED IN 4143 FOR LONGITUDINAL SUBDRAINS



Exact dimensions, wall batter, backfill limits, reinforcement, and leveling pad materials and dimensions will be specified by the wall manufacturer.

CONTRACTOR IS RESPONSIBLE FOR SUPPLYING WALL MATERIALS. CLIENT WILL INSTALL WALL UNITS AND CAP STONE



HORIZONTAL SCALE IN FEET
 0 10 20
 DRAWING MAY HAVE BEEN REDUCED

I.W.P.C.



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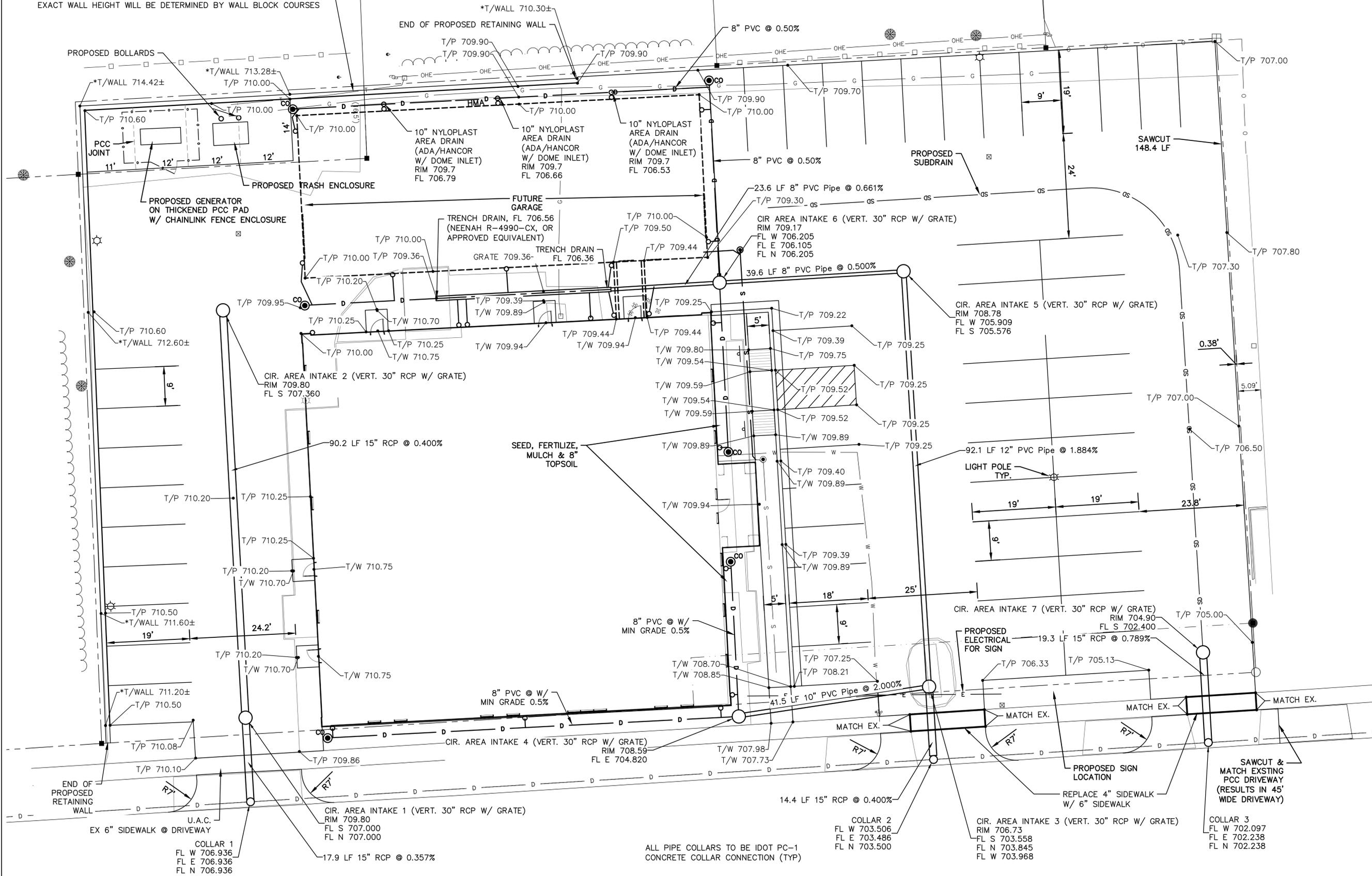
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**PAVING/STORM
 SITE PLAN**

CLINTON COUNTY SATELLITE OFFICE - 2014
 SITE CONSTRUCTION
 DEWITT, IOWA

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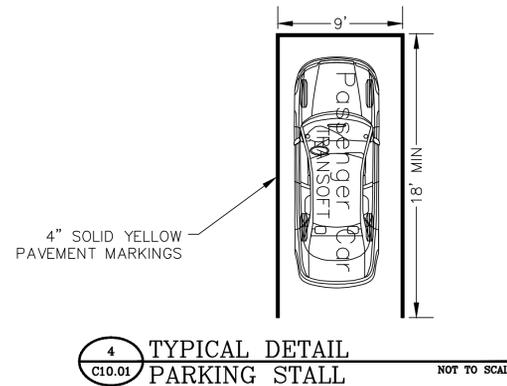
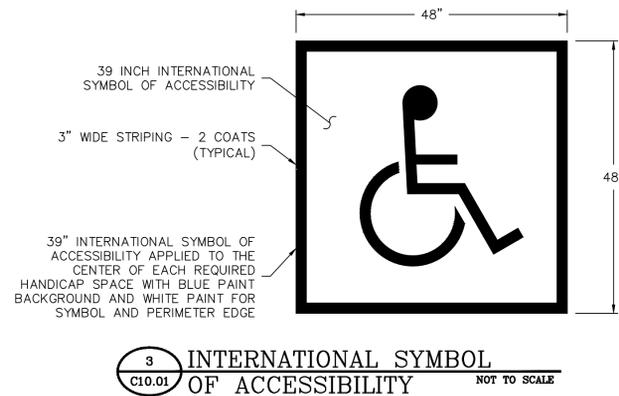
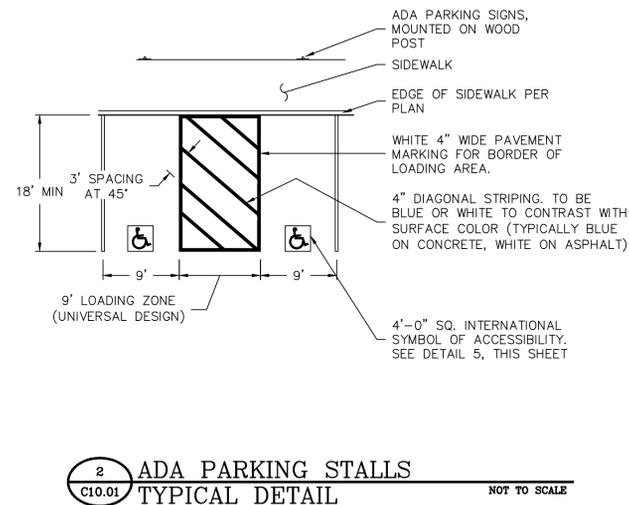
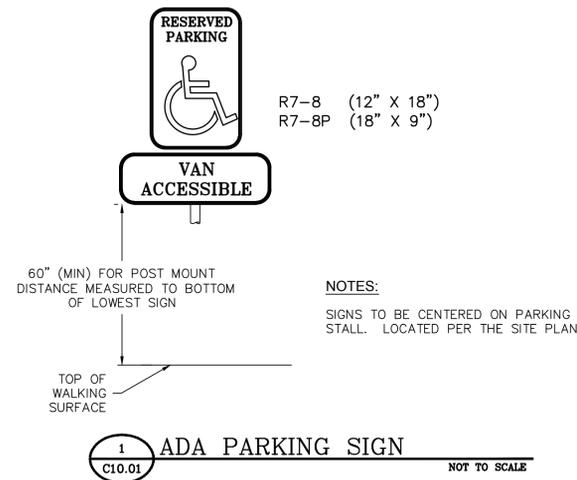
PROPOSED RETAINING WALL
 CONTRACTOR IS RESPONSIBLE FOR LEVELING PAD AND SUPPLYING WALL MATERIALS. CLIENT WILL INSTALL WALL UNITS AND CAP STONE
 *TOP OF WALL ELEV. ARE APPROXIMATE
 EXACT WALL HEIGHT WILL BE DETERMINED BY WALL BLOCK COURSES



Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	1-20-14	
2		1-20-14	

Project No: 11176-06
C6.10
 Project No: 11176-06

ALL PIPE COLLARS TO BE IDOT PC-1
 CONCRETE COLLAR CONNECTION (TYP)

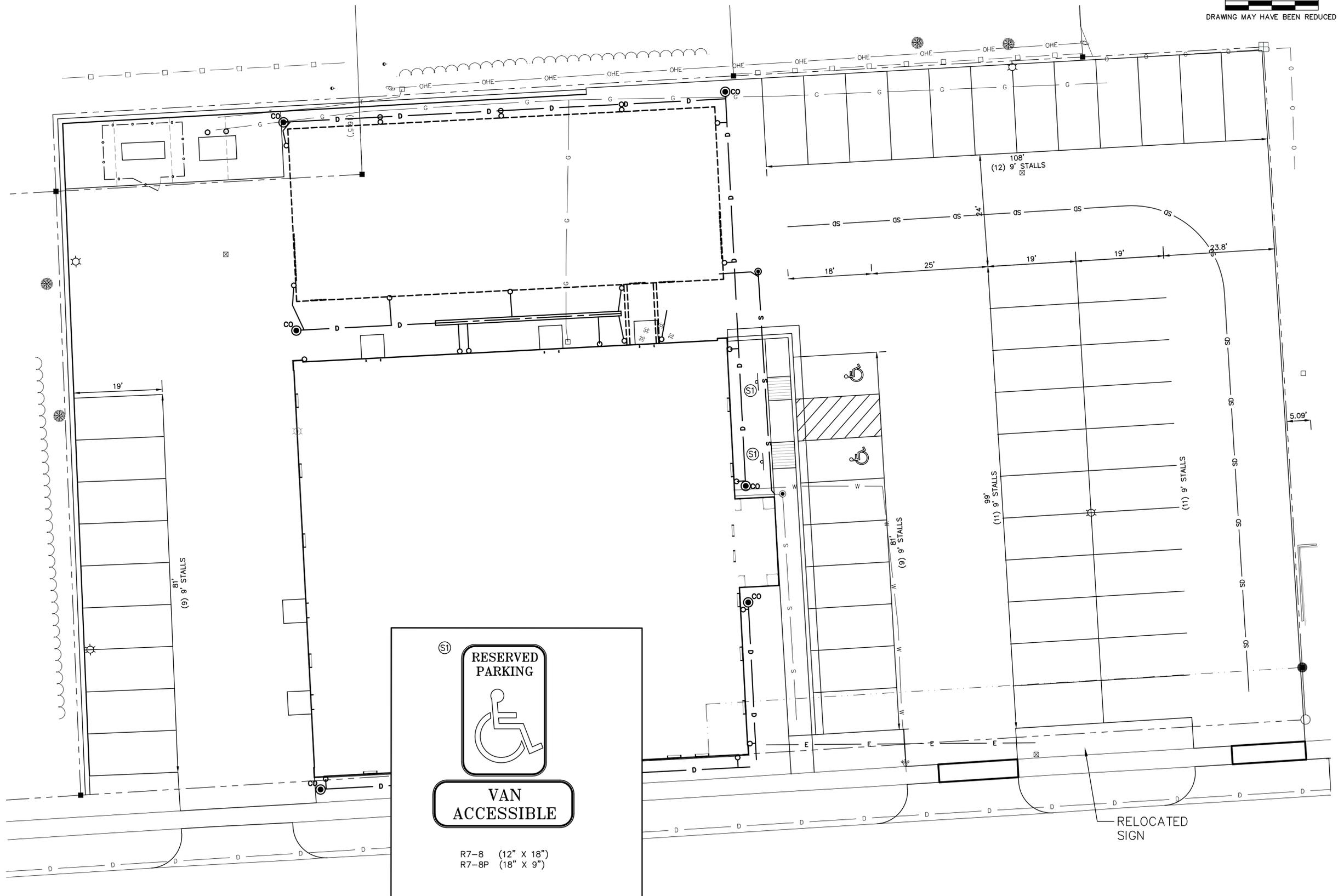
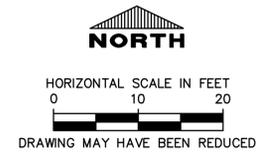


TYPE OF MARKINGS	QUANTITY (EACH)	LENGTH (FEET)	
4" YELLOW, 9', SIDES	50	450	
4" YELLOW, ISLE DIVIDER	1	99	
4" WHITE HATCH	1 STALL	80	
4" WHITE HATCH BORDER	1 STALL	56	
4' INTERNATIONAL SYMBOL OF ACCESSIBILITY	2		
	TOTAL	685	FEET OF 4" PAVEMENT MARKINGS
		2	SYMBOLS

Project Description:

Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	1-20-14	

Drawn By: TDC/JMV
Issued For Construction: 1-20-14



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**PVMT MARKING & SIGNAGE
 PLAN**

CLINTON COUNTY SATELLITE OFFICE - 2014
 SITE CONSTRUCTION
 DEWITT, IOWA

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Project Description:

Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	1-20-14	

Drawing Issue Information
 Project Mgr: GTB
 Drawn By: TDC/JMV
 Issued For: Construction: 1-20-14

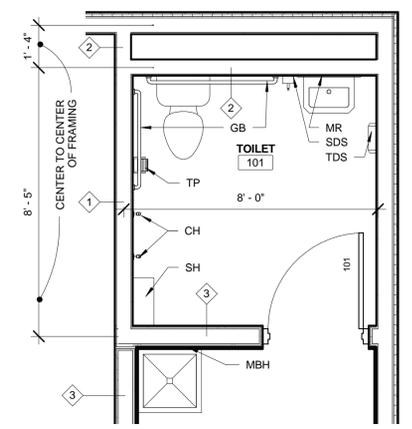
Project Description:	CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
Drawing Issue Information:	Drawn By: IIW Project Mgr: MAR Issued for: Bidding
CONSTRUCTION DOCUMENTS	Date: 01/20/14
Rev:	By: MRF
Description	

GENERAL PLAN NOTES:

- INTERIOR WALLS ARE DIMENSIONED TO CENTER OF FRAMING U.N.O.
- EXTERIOR WALLS ARE DIMENSIONED TO OUTSIDE FACE OF BRICK AND OUTSIDE FACE OF PLYWOOD AT WOOD FRAMED EXTERIOR WALLS.
- OFFSET HINGED SIDE OF DOOR R.O. 4 1/2" FROM ADJACENT WALL UNLESS DIMENSIONED OTHERWISE ON PLAN.
- CONTRACTOR SHALL PROVIDE BLOCKING IN FRAMED WALLS FOR SUPPORT OF WALL MOUNTED HARDWARE INDICATED.
- CONTRACTOR SIZES INDICATED ARE NOMINAL. PROVIDE ACTUAL ROUGH OPENING REQUIRED FOR SPECIFIED UNITS.
- UNLESS NOTED OTHERWISE, BOLD LINEWORK DENOTES WORK OF THIS CONTRACT. DASHED LINEWORK DENOTES EXISTING TO BE DEMOLISHED, AND FADED LINEWORK DENOTES EXISTING TO REMAIN.
- ALL EXISTING CONSTRUCTION AND ITEMS TO REMAIN, INCLUDING BUT NOT LIMITED TO ITEMS INDICATED ON THESE DRAWINGS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT. ANY ITEM THAT IS DAMAGED SHALL BE REPLACED OR REPAIRED TO THE OWNER'S SATISFACTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND OBSERVE ALL EXISTING CONDITIONS BEFORE BIDDING THE PROJECT. CONTACT ENGINEER WITH ANY DISCREPANCIES. FAILURE TO DO SO DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE PROJECT AS INTENDED.

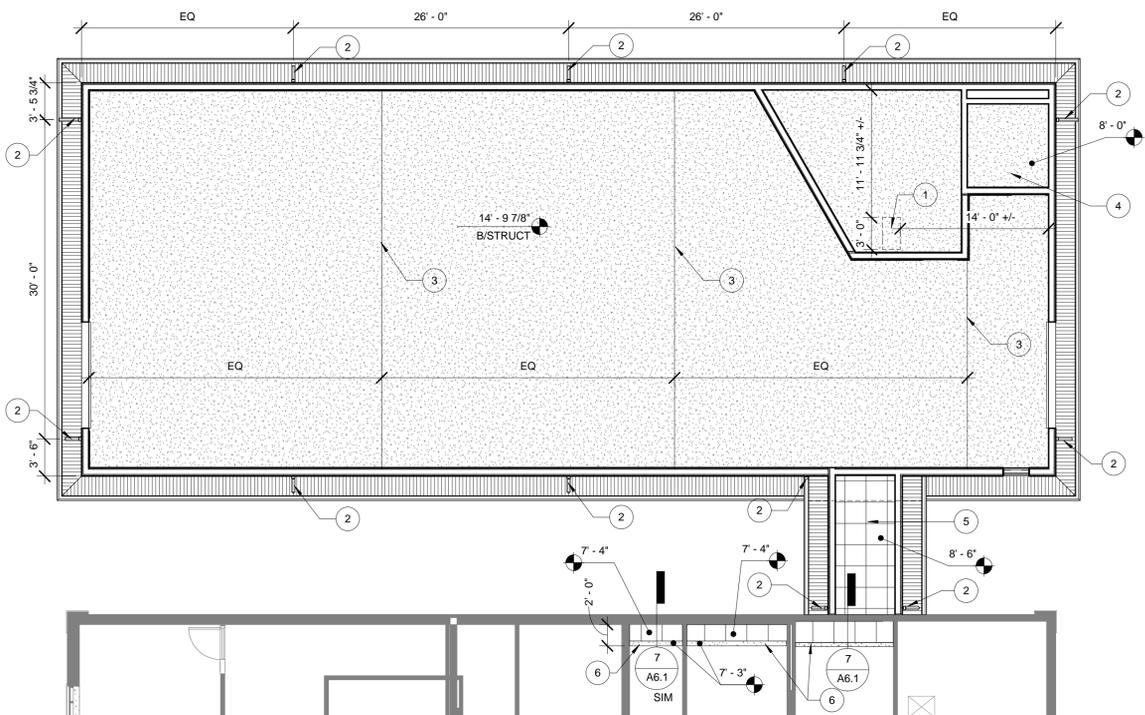
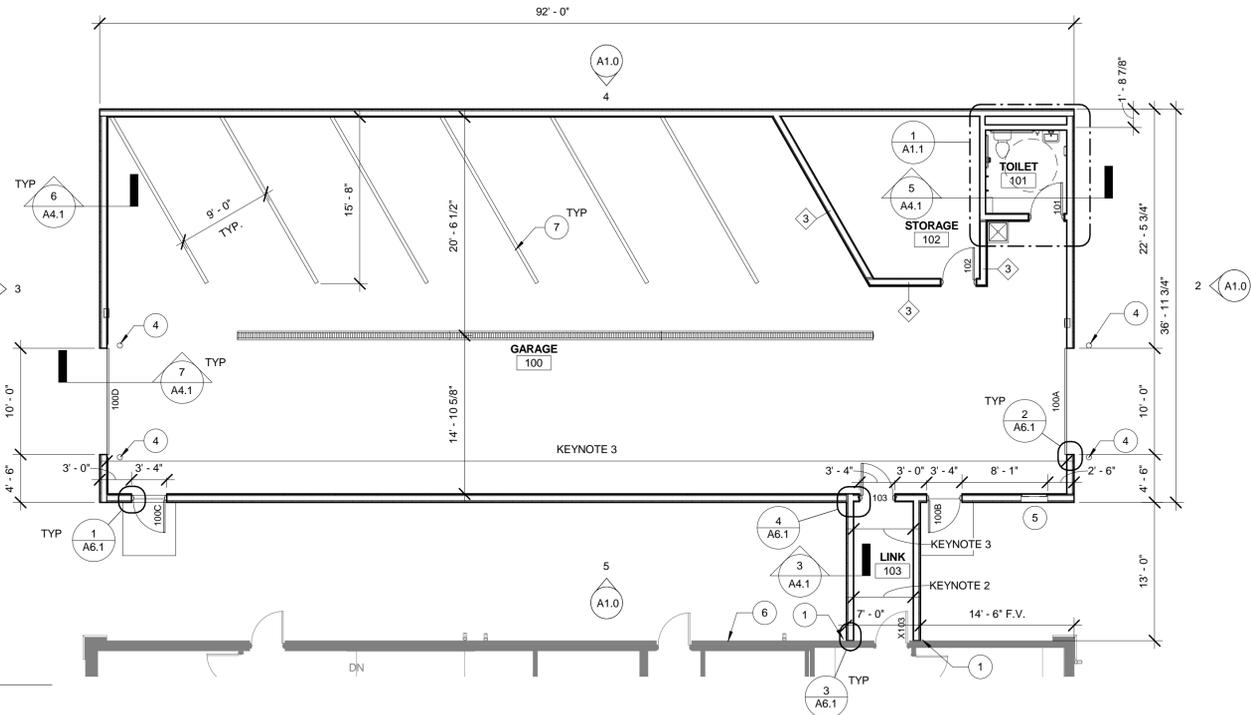
KEY NOTES:

- MODIFY EXISTING STEEL SIDING AS REQUIRED FOR INSTALLATION OF NEW WALLS.
- REMOVE EXISTING STEEL SIDING AND INSTALL 5/8" GYPSUM BOARD OVER EXISTING EXTERIOR SHEATING.
- INSTALL (2) TWO LAYERS OF 5/8" TYPE X GYPSUM BOARD ON FACE OF STUDS.
- INSTALL PIPE BOLLARD PER DETAIL 18/S0.2 INTERIOR AND 4/C6.02 FOR EXTERIOR.
- LOUVER - SEE MECHANICAL
- REPLACE DAMAGED PIECE OF SIDING AFTER RELOCATION OF GAS METER.
- PAINT WHITE PARKING STALL STRIPES ON FLOOR - REFER TO SPECIFICATION SECTION 321313 FOR ADDITIONAL INFORMATION.



1 ENLARGED TOILET PLAN
 3/8" = 1'-0"

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



REFLECTED CEILING PLAN
 1/8" = 1'-0"

CEILING PLAN LEGEND

- GYPSUM BOARD - FINISH SMOOTH
- PREFINISHED METAL VENTED SOFFIT
- ACOUSTICAL CEILING PANEL

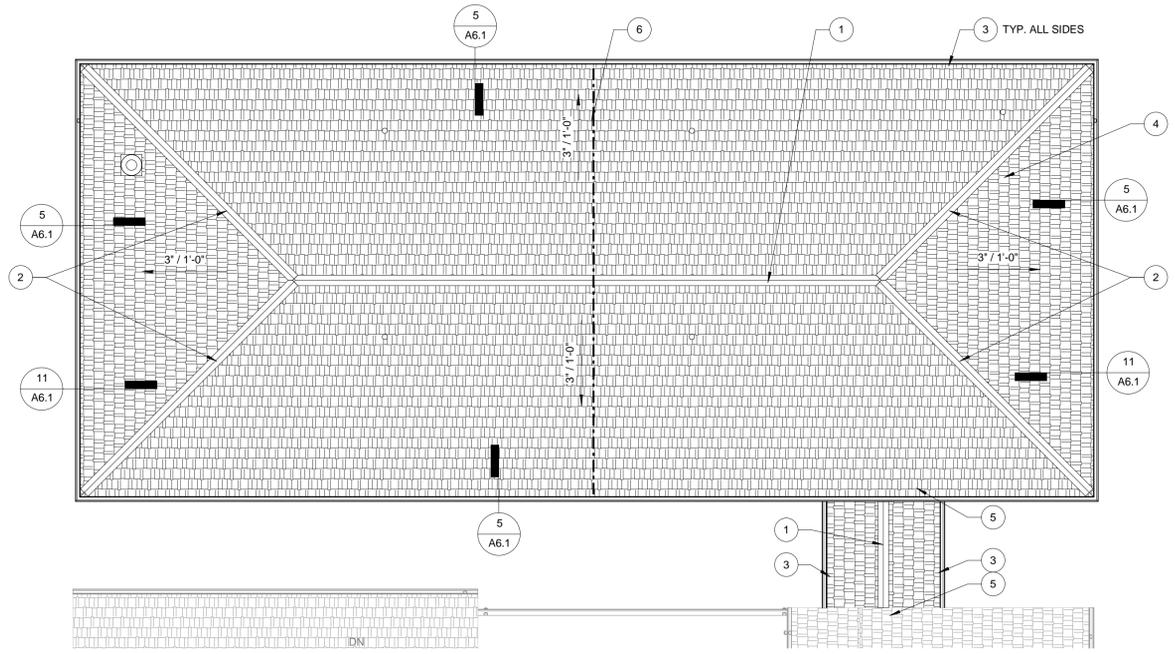
CEILING PLAN NOTES

- COORDINATE EXACT QUANTITY AND LOCATIONS OF LIGHTING FIXTURES AND HVAC DIFFUSERS AND GRILLES WITH ELECTRICAL AND MECHANICAL.
- CUT AND PATCH EXISTING GYPSUM BOARD ON BOTTOM OF TRUSSES AS REQUIRED FOR INSTALLATION OF REQUIRED FRAMING.

REFLECTED CEILING KEY NOTES:

- VERIFY JOIST LOCATION. PROVIDE BLOCKING AROUND ATTIC ACCESS OPENING. VERIFY LOCATION OF ACCESS PANEL TO HAVE 30" MIN CLEAR TO BOTTOM OF TRUSS. PROVIDE 2X FRAMING AROUND PANEL IN CEILING. SEE DETAIL 9/A6.1.
- PREFINISHED 4x4 BOX ALUMINUM DOWNSPOUT
- CONTROL JOINT IN CEILING. ALIGN WALL CONTROL JOINTS WITH JOINTS IN CEILING.
- PROVIDE 5/8" GYPSUM BOARD ON BOTTOM OF TRUSSES ABOVE TOILET 101 IN ADDITION TO THE GYPSUM BOARD CEILING IN TOILET 101.
- PROVIDE 5/8" GYPSUM BOARD ON BOTTOM OF TRUSSES IN LINK 103.
- PATCH AND PAINT EXISTING WALLS AND CEILING ADJACENT TO SOFFIT. PAINT NEW SOFFIT AND EXISTING WALL PATCHES TO MATCH EXISTING.

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

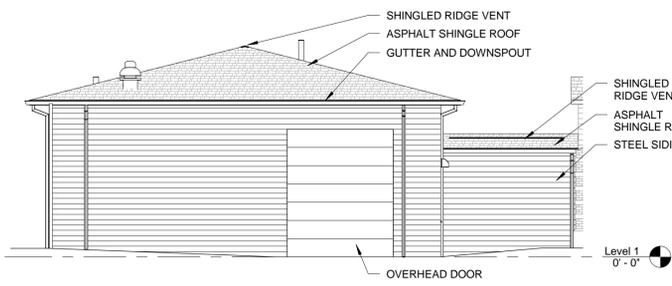


ROOF PLAN KEY NOTES:

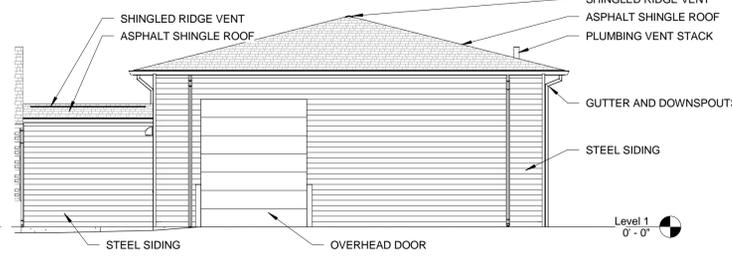
- CONTINUOUS SHINGLED RIDGE VENT
- CONTINUOUS SHINGLED HIP VENT
- 4x4 PREFINISHED PREFINISHED ALUMINUM GUTTER.
- VENT THRU ROOF - PROVIDE BOOT
- INSTALL STEP FLASHING AT ROOF-TO-WALL TRANSITIONS. MODIFY EXISTING STEEL SIDING AS REQUIRED FOR INSTALLATION OF STEP FLASHING.
- PROVIDE 5/8" GYPSUM BOARD ON EACH SIDE OF TRUSS IN THIS AREA TO PROVIDE DRAFTSTOPPING. PROVIDE LEVEL 3 FINISH ON GYPSUM BOARD. PROVIDE 2'-6" x 3'-0" SELF CLOSING DOOR WITH LATCH IN CENTER OF TRUSS FOR ACCESS BETWEEN TWO ATTIC COMPARTMENTS. DOOR SHALL BE CONSTRUCTED FROM 3/8" PLYWOOD.

ROOF PLAN NOTES:

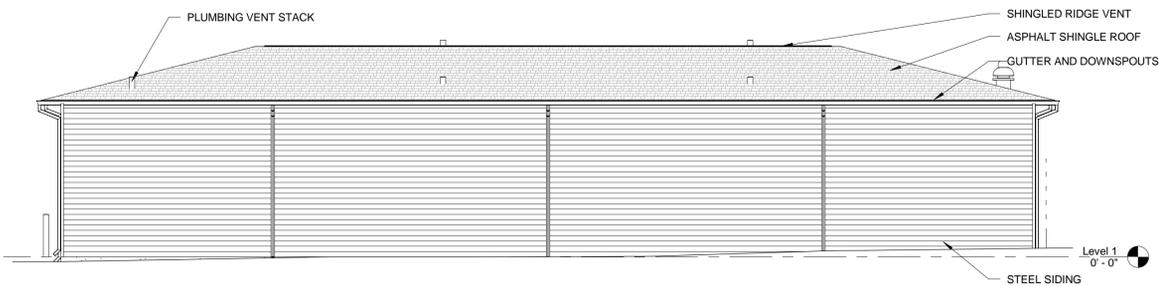
- COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND PLUMBING DRAWINGS. PROVIDE ALL BOOTS FOR ROOFING TYPE.



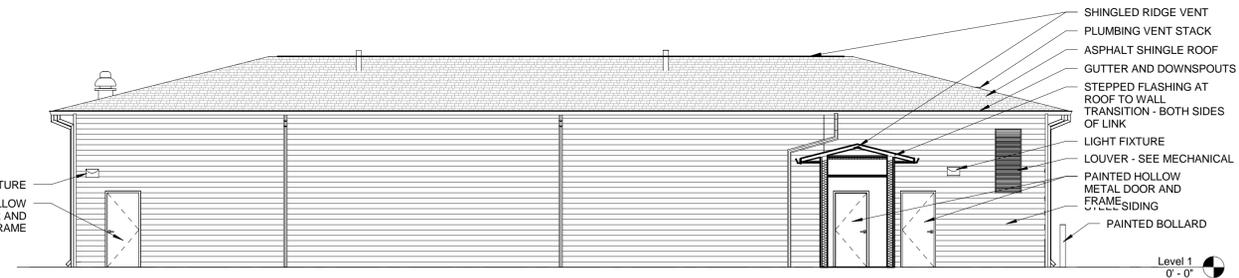
1 WEST ELEVATION
1/8" = 1'-0"



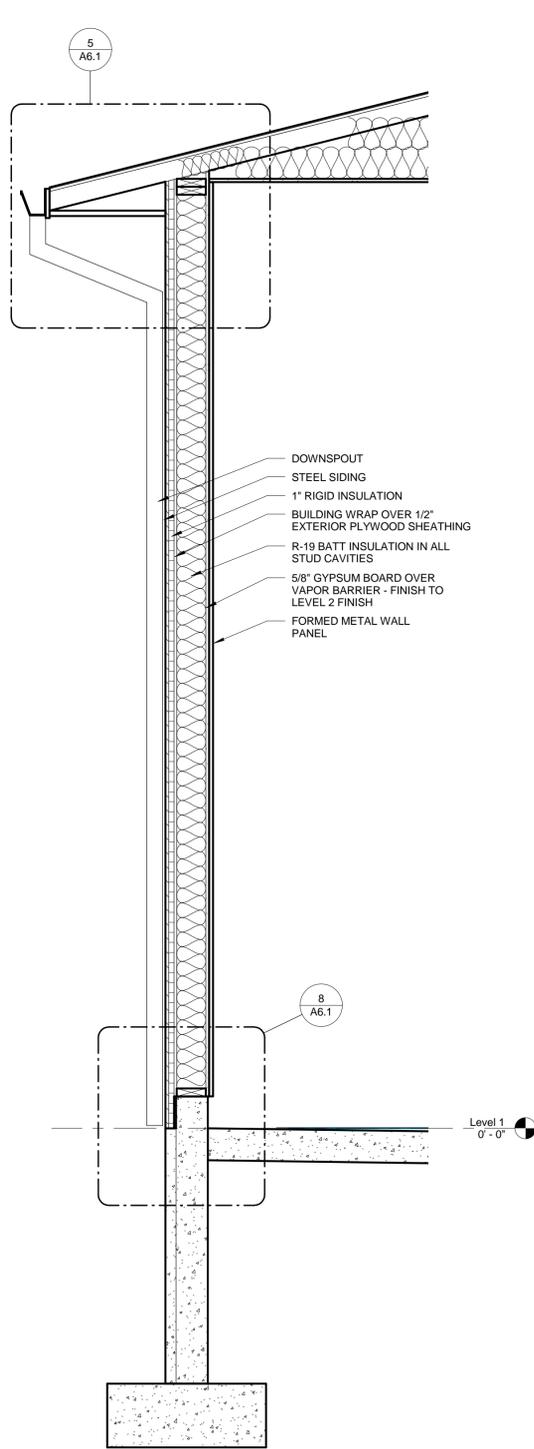
2 EAST ELEVATION
1/8" = 1'-0"



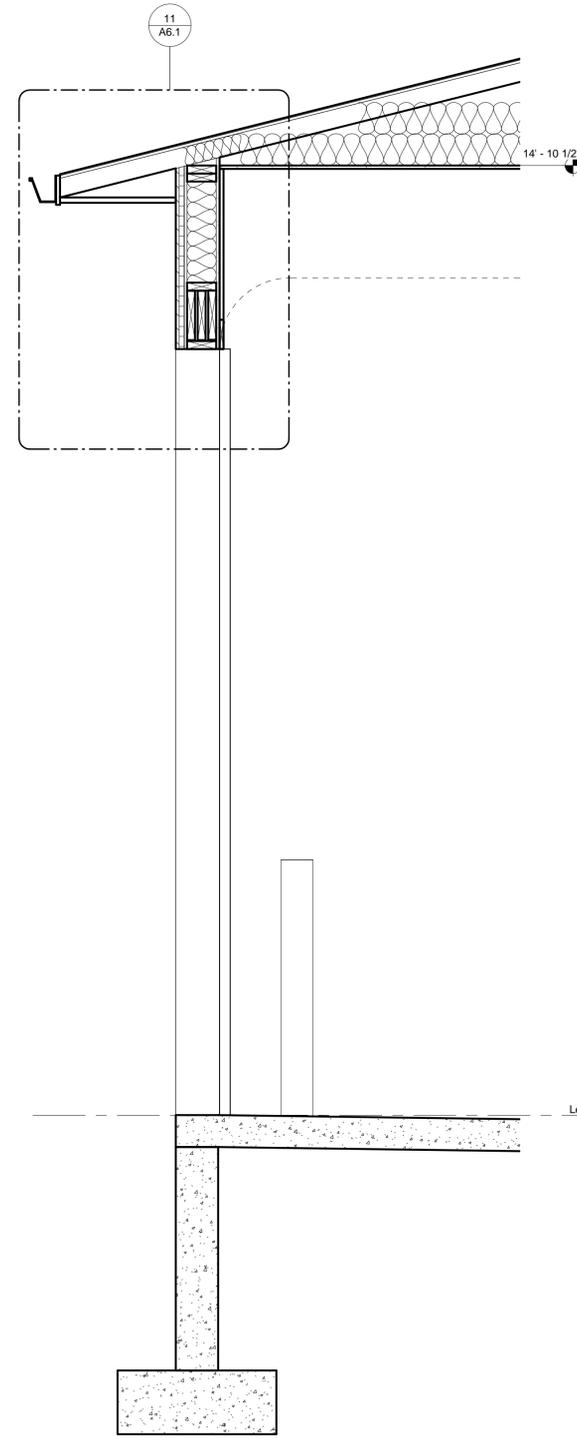
4 NORTH ELEVATION
1/8" = 1'-0"



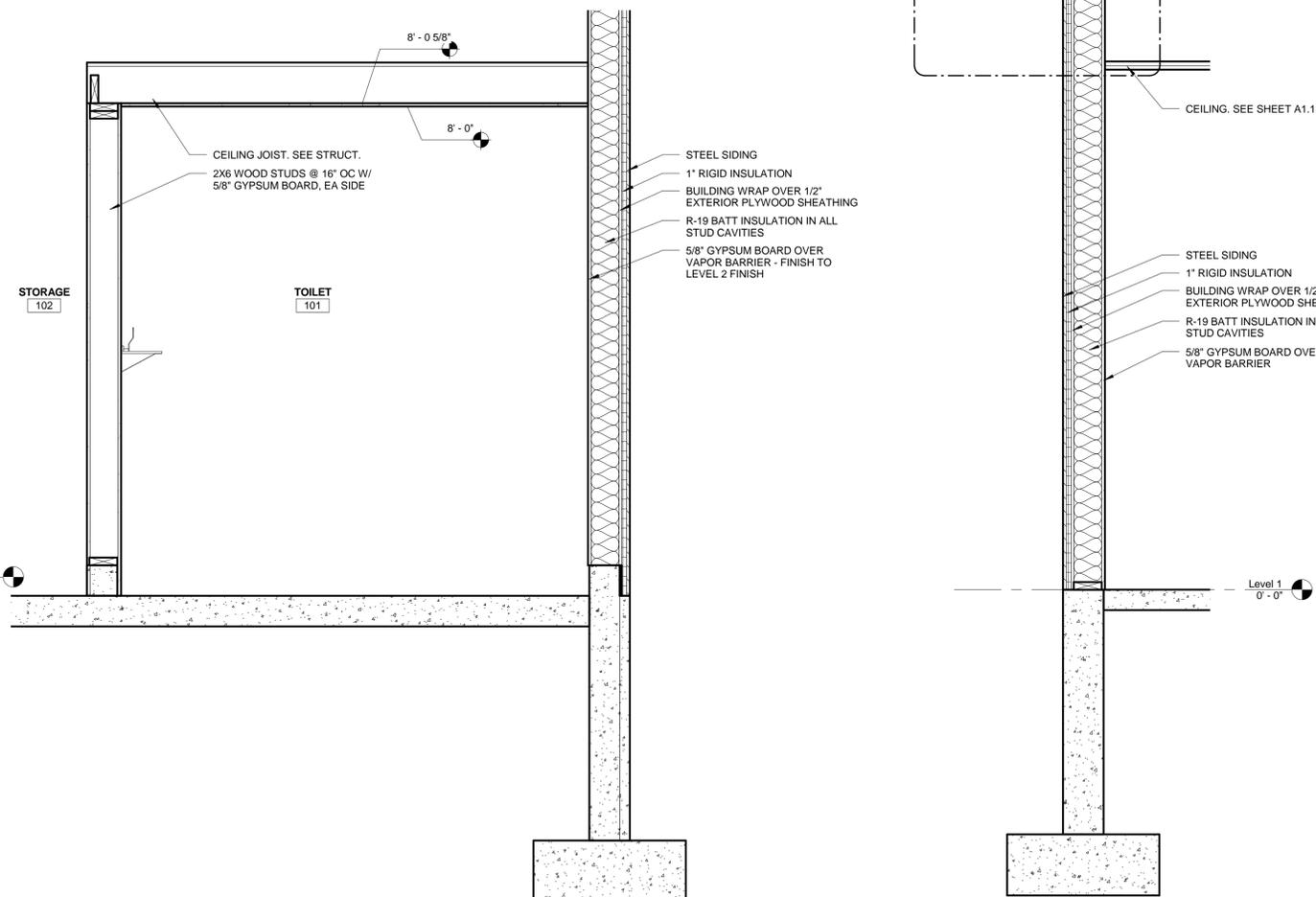
8 SOUTH ELEVATION
1/8" = 1'-0"



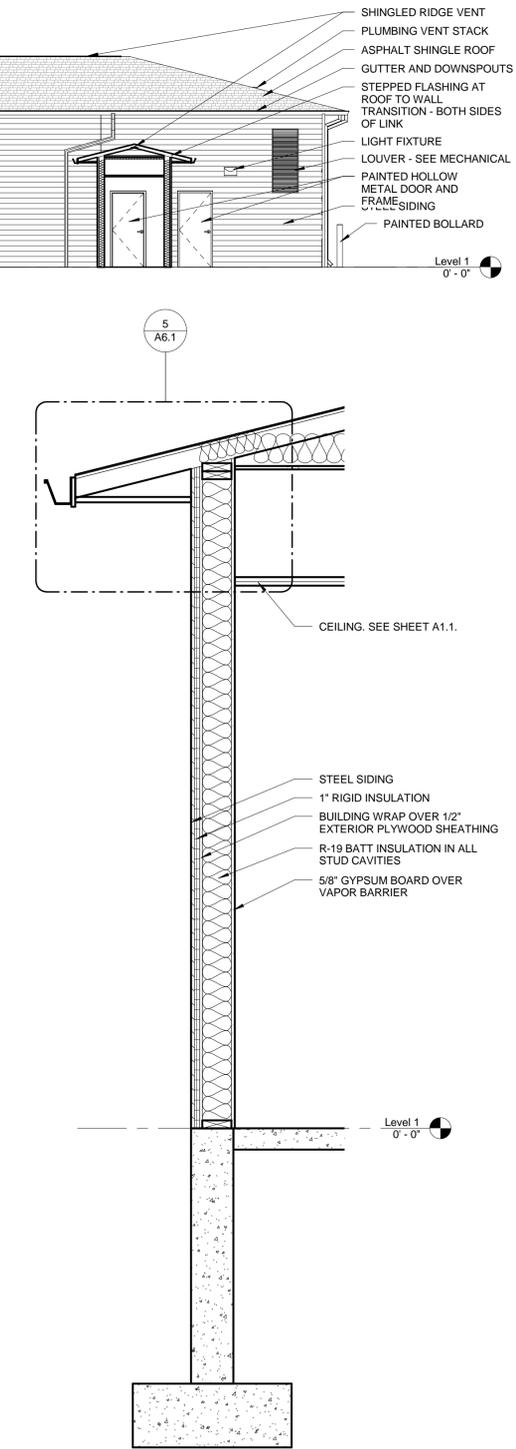
6 TYPICAL WALL SECTION
3/4" = 1'-0"



7 TYPICAL SECTION @ OVERHEAD DOOR
3/4" = 1'-0"



5 SECTION AT RESTROOM
3/4" = 1'-0"



3 CORRIDOR SECTION
3/4" = 1'-0"

EXTERIOR ELEVATIONS AND SECTIONS

CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
226 11TH STREET
DEWITT, IOWA 52742

Project Description: CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE, Satellite Office, Dewitt, Iowa, 52742

Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	01/20/14	MRF

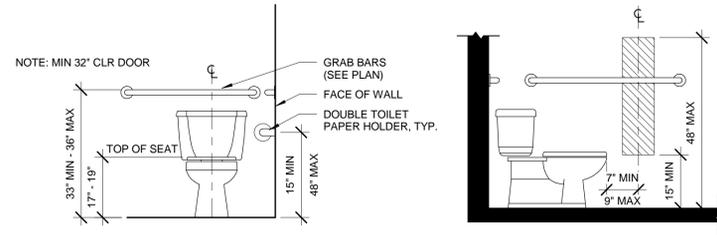
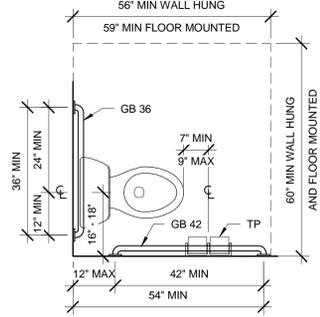
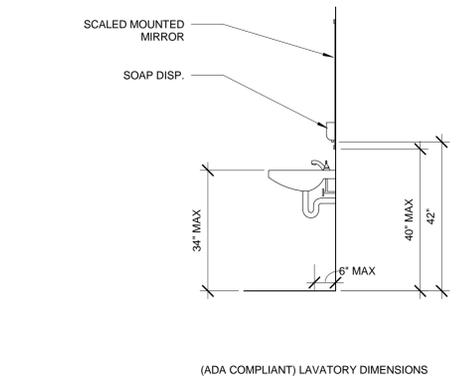
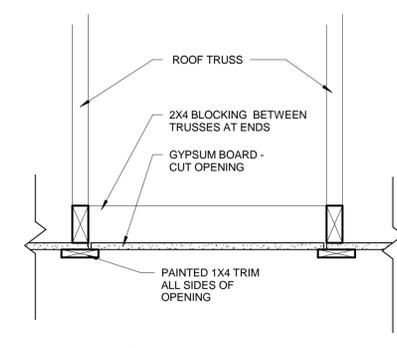
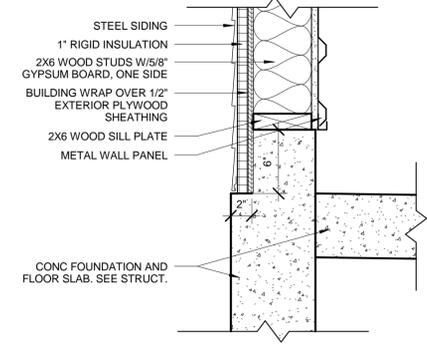
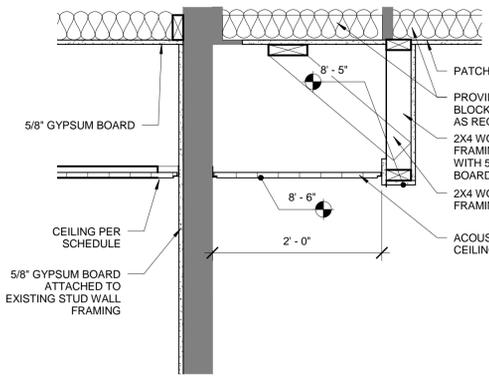
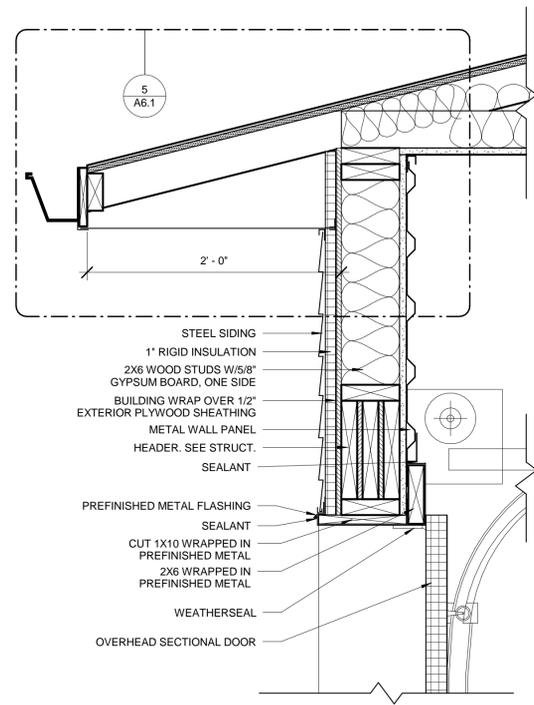
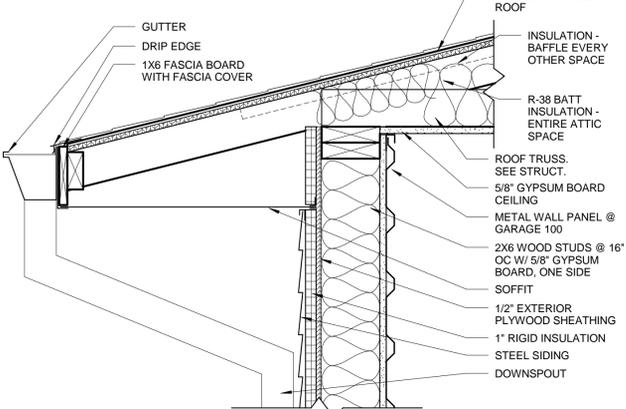
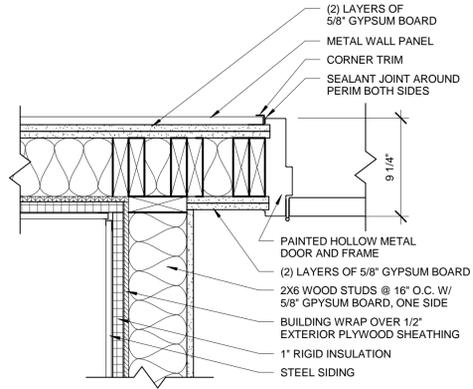
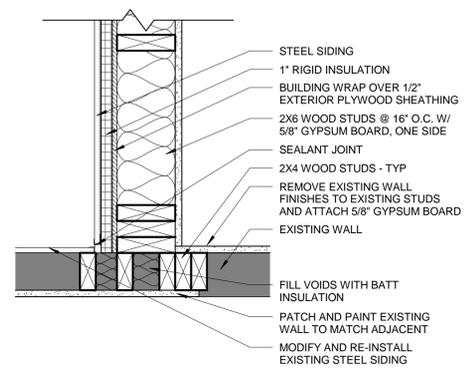
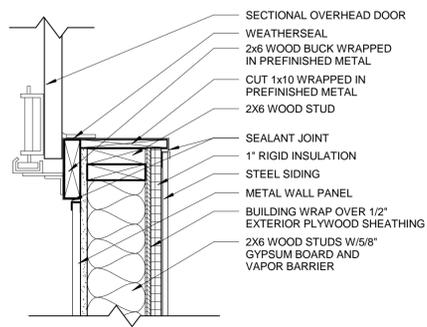
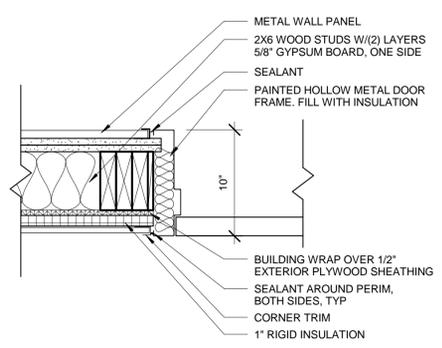
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DETAILS AND SCHEDULES
 CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
 226 11TH STREET
 DEWITT, IOWA 52742

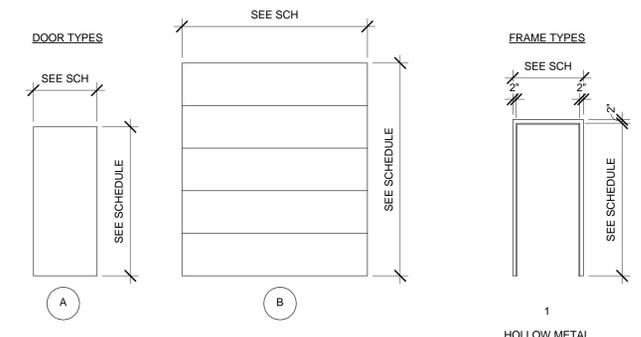
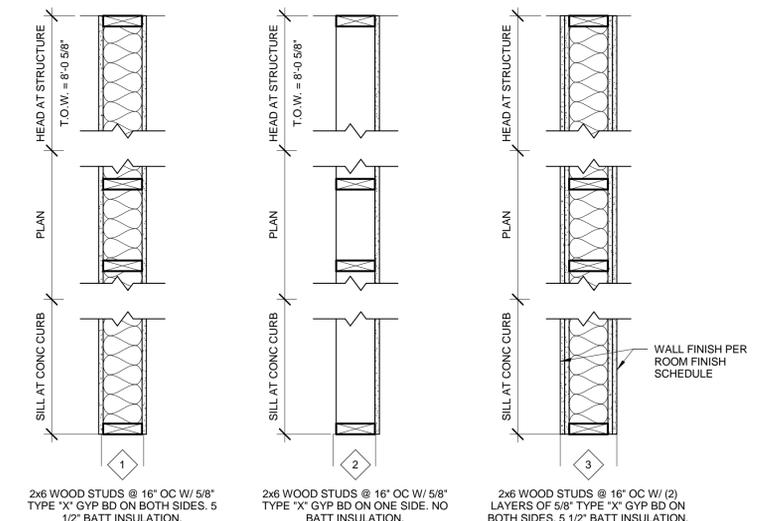
Project Description: CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE

Revision	Date	By	Description
1	01/20/14	IMRF	CONSTRUCTION DOCUMENTS

Drawing Issue Information:
 Drawn By: IIW
 Project Mgr: MAR
 Issued For: Bidding



WALL TYPE LEGEND



DOOR SCHEDULE											
TAG	WIDTH	HEIGHT	THICKNESS	DOOR		GLAZING		FRAME		HARDWARE	NOTES
				B	MATERIAL		FIRE RATING	TYPE	MATERIAL		
100A	10'-0"	12'-0"	0'-2"	B	STEEL						
100B	3'-0"	7'-0"	0'-1 3/4"	A	HM			1	HM	1	1
100C	3'-0"	7'-0"	0'-1 3/4"	A	HM			1	HM	2	1
100D	10'-0"	12'-0"	0'-2"	B	STEEL						
101	3'-0"	7'-0"	0'-1 3/4"	A	HM		90 MIN.	1	HM	3	1
102	3'-0"	7'-0"	0'-1 3/4"	A	HM		90 MIN.	1	HM	4	1
103	3'-0"	7'-0"	0'-1 3/4"	A	HM		90 MIN.	1	HM	5	1

ROOM FINISH SCHEDULE						
Number	Name	Floor Finish	Base	Wall Finish	Ceiling Finish	Notes
100	GARAGE	SEALED CONCRETE		METAL WALL PANEL	PAINTED GYPSUM BOARD /P-1	1
101	TOILET	RESINOUS		PLASTIC PANELING	PAINTED GYPSUM BOARD /P-1	1
102	STORAGE	SEALED CONCRETE		PAINTED GYPSUM BOARD/P-1	PAINTED GYPSUM BOARD /P-1	1,2
103	LINK	TILE		PAINTED GYPSUM BOARD/P-1	ACOUSTICAL PANEL	1

- ROOM FINISH NOTES**
- PROVIDE 5/8" GYPSUM BOARD ON BOTTOM OF ROOF STRUCTURE.
 - PROVIDE PAINTED GYPSUM BOARD ON EXTERIOR WALLS ABOVE TOILET 101.

- NOTES:**
- TOP OF WALLS TO TERMINATE AT BOTTOM OF ROOF STRUCTURE U.O.S.
 - PROVIDE 2X4 BLOCKING BETWEEN ROOF TRUSSES AT 24" O.C. FOR ANCHORING TOP OF WALLS. REMOVE AND REPAIR EXISTING GYPSUM BOARD AS REQUIRED PER INSTALLATION OF BLOCKING.
 - PROVIDE SILL SEAL UNDER BASE PLATE FOR ALL WALLS

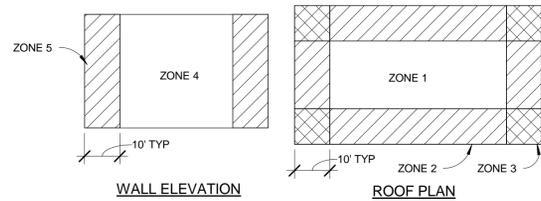
- DOOR SCHEDULE NOTES**
- PAINT METAL DOOR AND FRAME P-2.

STRUCTURAL DESIGN CRITERIA

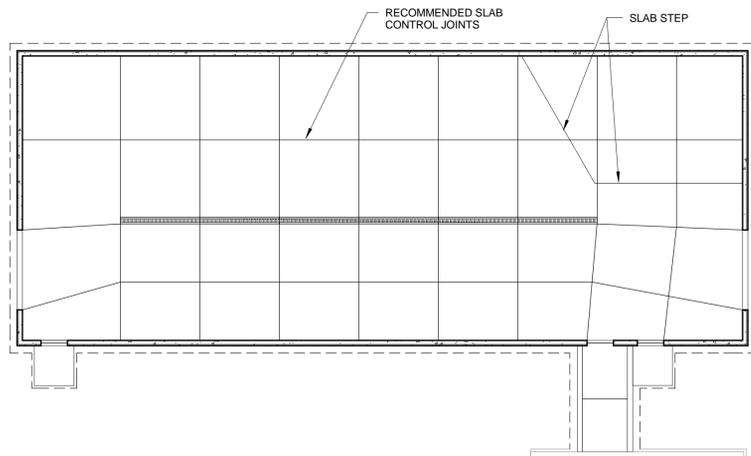
- A. BUILDING CODES:**
 1. GOVERNING BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE.
 2. REFERENCED CODES:
 A. ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
 3. OCCUPANCY CATEGORY: III (ASCE 7-05, TABLE 1-1).
 4. EXPOSURE CATEGORY: C (ASCE 7-05, SECTION 6.5.6).
- B. DEAD LOADS:**
 1. MEZZANINE - 5 PSF (WOOD FRAMING AND PLYWOOD)
 2. ROOF: 20 PSF (ASPHALT SHINGLES ON SHEATHING)
 (15PSF TC, 5 PSF BC)
- C. LIVE LOADS:**
 1. UNIFORM MEZZANINE FLOOR LIVE: 60 PSF
 2. UNIFORM ROOF LIVE: 20 PSF
- D. SNOW LOADS:**
 1. GROUND SNOW LOAD, $P_g = 25$ PSF
 2. SNOW EXPOSURE FACTOR, $C_e = 1.0$
 3. SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$
 4. THERMAL FACTOR, $C_t = 1.0$
 5. DESIGN ROOF SNOW LOAD, $P_s = 15$ PSF
 6. UNBALANCED LOADS:
 WINDWARD SNOW LOAD = 5 PSF
 LEeward SNOW LOAD FROM RIDGE TO 9' = 29 PSF
 LEeward SNOW LOAD FROM 9' TO EAVE = 15 PSF
- E. WIND LOADS:**
 1. ANALYSIS PROCEDURE: ASCE 7-05 SECTION 6.5 METHOD 2 - ANALYTICAL PROCEDURE.
 2. BASIC WIND SPEED (3 SECOND GUST): 90 MPH.
 3. WIND IMPORTANCE FACTOR, $I_w = 1.15$, CATEGORY III
 4. TOPOGRAPHIC FACTOR: 1.0
 5. INTERNAL PRESSURE COEFFICIENT: ± 0.18 , ENCLOSED
 6. COMPONENTS AND CLADDING PRESSURES:

BUILDING WALL PRESSURES ($h \leq 60'$)		10 S.F.	100 S.F.	500 S.F.
NEGATIVE PRESSURES	ZONE 4	-20 PSF	-17 PSF	-15 PSF
	ZONE 5 ($h \leq 60'$)	-25 PSF	-19 PSF	-15 PSF
POSITIVE PRESSURES	ZONES 4 & 5	+18 PSF	+16 PSF	+14 PSF
ROOF PRESSURES		10 S.F.	50 S.F.	100 S.F.
NEGATIVE PRESSURES	ZONE 1	-17 PSF	-16 PSF	-15 PSF
	ZONE 2	-29 PSF	-24 PSF	-22 PSF
	ZONE 3	-29 PSF	-24 PSF	-22 PSF
POSITIVE PRESSURES	ALL ZONES	+10 PSF	+10 PSF	+10 PSF

INTERPOLATION FOR EFFECTIVE WIND AREAS BETWEEN THOSE SHOWN IS PERMITTED. OTHERWISE USE PRESSURE FOR SMALLER EFFECTIVE WIND AREA.



- F. SEISMIC LOADS:**
 1. SEISMIC IMPORTANCE FACTOR, $I_E = 1.0$, CATEGORY II
 2. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 $S_s = 0.121$
 $S_1 = 0.055$
 3. SITE CLASS: D
 4. SPECTRAL RESPONSE COEFFICIENTS:
 $SDS = 0.129$
 $SD1 = 0.098$
 5. SEISMIC DESIGN CATEGORY: B
 6. BASIC SEISMIC-FORCE-RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
 7. DESIGN BASE SHEAR: 2.5k
 8. SEISMIC RESPONSE COEFFICIENT(S), $C_s = 0.20$
 9. RESPONSE MODIFICATION FACTOR(S), $R = 6.5$ (LIGHT FRAMED WOOD WALLS WITH STRUCTURAL WOOD SEAR PANELS)
 10. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE.



MINIMUM CONCRETE COVER PER ACI318	
CAST-IN-PLACE CONCRETE	MIN COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 - NO. 18 BAR NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	2 1 1/2
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO. 14 AND NO. 18 BARS NO. 11 AND SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2 3/4 1 1/2

- G. GEOTECHNICAL INFORMATION:**
 1. THE FOUNDATIONS SPECIFIED ARE BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 1500 PSF, WHICH SHALL BE VERIFIED PRIOR TO FOOTING CONSTRUCTION.
 2. BOTTOM OF EXTERIOR FOOTINGS SHALL EXTEND A MINIMUM OF 4'-0" BELOW FINAL GRADE.
- H. LIVE LOADS POSTED:**
 IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE SECTION 1603.3, "WHERE THE LIVE LOADS FOR WHICH EACH FLOOR OR PORTION THEREOF OF A COMMERCIAL OR INDUSTRIAL BUILDING IS OR HAS BEEN DESIGNED TO EXCEED 50 PSF, SUCH DESIGN LIVE LOADS SHALL BE CONSPICUOUSLY POSTED BY THE OWNER IN THAT PART OF EACH STORY IN WHICH THEY APPLY, USING DURABLE SIGNS."
- I. MISCELLANEOUS:**
 1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH DRAWINGS FOR ALL OTHER DISCIPLINES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
 2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURAL FRAMING, INCLUDING THE SLAB ON GRADE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
 5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
 6. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
 7. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN.
 8. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE ARCHITECT HAS BEEN INFORMED OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN APPROVAL TO THE SPECIFIC DEVIATION.
 9. ALL THINGS, WHICH IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.
 10. ALL DIMENSIONS SHALL BE CHECKED AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
 11. WHERE DIMENSION OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.
 12. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND EMPLOYED BY THE CONTRACTOR.

EMBEDMENT REQUIREMENTS

EXPANSION ANCHOR EMBEDMENTS				SLEEVE ANCHOR EMBEDMENTS		HILTI HIT-HY 150 ADHESIVE ANCHORING SYSTEM				HILTI HIT-HY 250 ADHESIVE ANCHORING SYSTEM		
ANCHOR SIZE	MIN. EMBED	STD. EMBED	MAX. EMBED	ANCHOR SIZE	STD. EMBED	BAR SIZE	MIN. EMBED	STD. EMBED	MAX. EMBED	HAS - E ROD	MIN. EMBED	STD. EMBED
3/8" Ø	1 5/8"	2 1/2"	N/A	3/8" Ø	1 1/4"	#4	2"	4"	8"	1/2" Ø	6"	10"
1/2" Ø	2 1/4"	3 1/2"	4 3/4"									

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EMBEDMENT DEPTHS SHOWN ARE BASED UPON REFERENCE PRODUCT HILTI HIT-HY 150.

EMBEDMENT DEPTHS SHOWN ARE BASED UPON REFERENCE PRODUCT HILTI HIT-HY 250.

IF TEMPERATURE AT TIME OF INSTALLATION IS LESS THAN 40 DEGREES F. USE HIT-ICE IN LIEU OF HIT-HY 150.

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EMBEDMENT DEPTHS SHOWN ARE BASED UPON REFERENCE PRODUCT HILTI HIT-HY 250.

IF TEMPERATURE AT TIME OF INSTALLATION IS LESS THAN 40 DEGREES F. USE HIT-ICE IN LIEU OF HIT-HY 150.

IF TEMPERATURE AT TIME OF INSTALLATION IS LESS THAN 40 DEGREES F. USE HIT-ICE IN LIEU OF HIT-HY 250.

EMBEDMENT DEPTHS SHOWN ARE BASED UPON REFERENCE PRODUCT HILTI KWIK BOLT 3.

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EMBEDMENT DEPTHS SHOWN ARE BASED UPON REFERENCE PRODUCT HILTI KWIK BOLT 3.

EMBEDMENT DEPTHS SHOWN

**TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	—	×	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	×	—	ACI 318: 8.1.3, 21.2.8	1911.5, 1912.1
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	—	×	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	—	×	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	×	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	×	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	—	×	ACI 318: 5.11-5.13	1913.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	×	×	ACI 318: 18.20 ACI 318: 18.18.4	—
10. ERECTION OF PRECAST CONCRETE MEMBERS.	—	×	ACI 318: Ch. 16	—
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	×	ACI 318: 6.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	×	ACI 318: 6.1.1	—

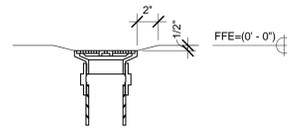
**TABLE 1704.7
REQUIRED VERIFICATION AND INSPECTION OF SOILS**

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	×
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	×
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	×
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	×	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	×

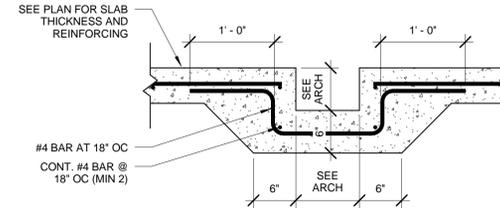
SPECIAL INSPECTION:

ELEMENTS OF CONSTRUCTION REFERENCED ON THIS SHEET SHALL REQUIRE SPECIAL INSPECTION PER IBC 2009 SECTION 1704.

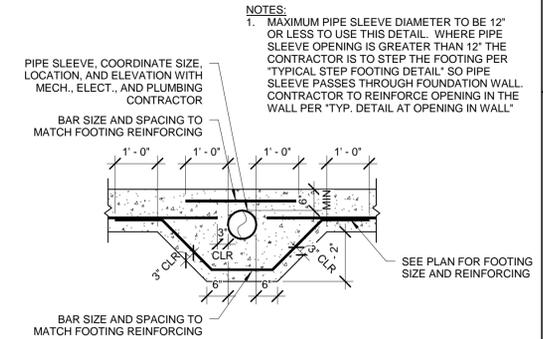
- A. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY/COUNTY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY/COUNTY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
- B. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY/COUNTY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.
- C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- D. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.



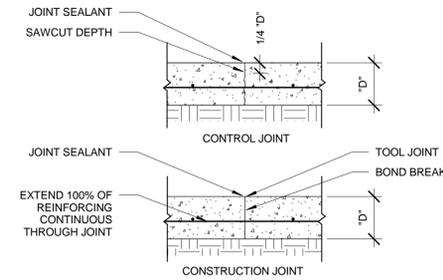
8 FLOOR DRAIN SECTION
1 1/2" = 1'-0"



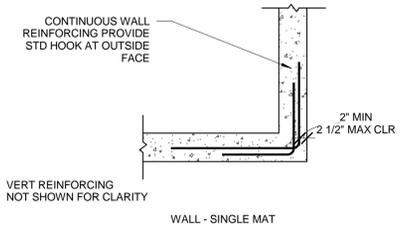
9 TYPICAL TRENCH DRAIN DETAIL
1" = 1'-0"



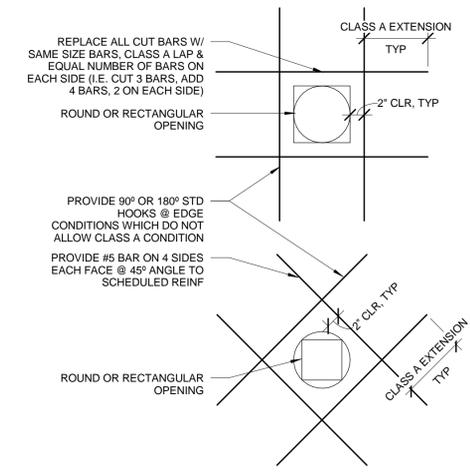
10 TYPICAL PIPE SLEEVE THROUGH CONTINUOUS FOOTING
1/2" = 1'-0"



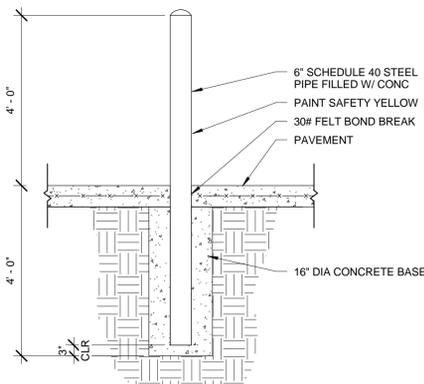
13 TYPICAL SLAB ON GRADE JOINT DETAILS
1/2" = 1'-0"



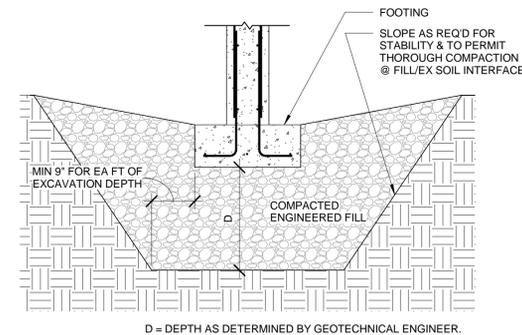
14 TYPICAL CORNER REINFORCING
1/2" = 1'-0"



15 TYPICAL WALL & SLAB OPENING REINF
1" = 1'-0"

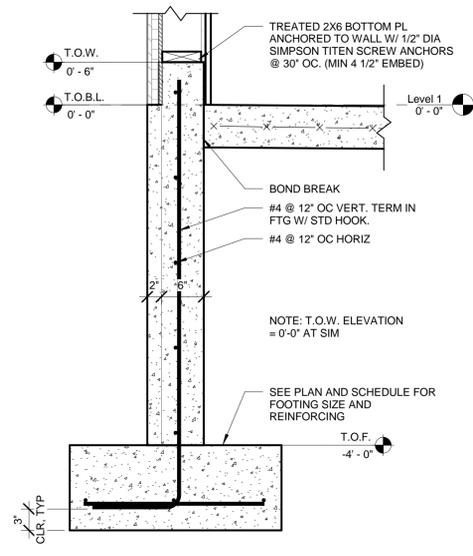


18 TYPICAL INTERIOR BOLLARD
1/2" = 1'-0"

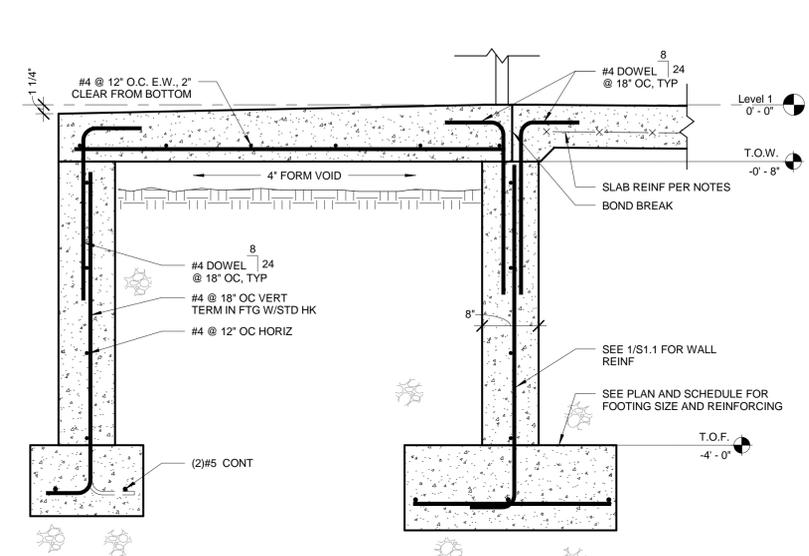


19 TYPICAL FOOTING OVER EXCAVATION DETAIL
1/2" = 1'-0"

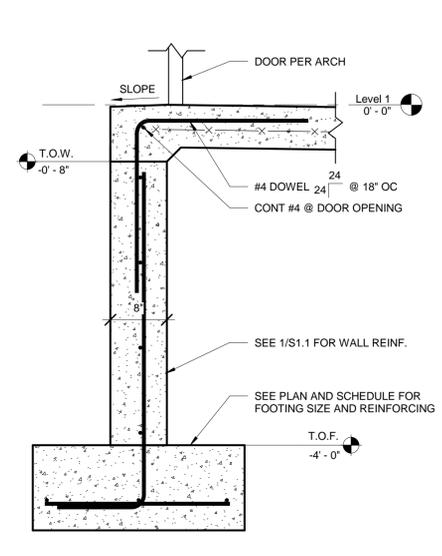
Rev	Description	Date	By
01/20/14	CONSTRUCTION DOCUMENTS		MRF



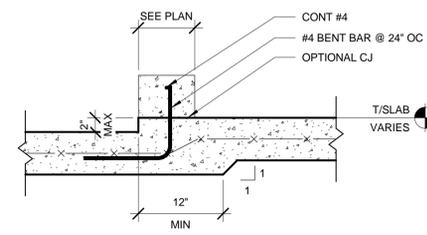
1 TYPICAL FOUNDATION SECTION
1" = 1'-0"



2 TYPICAL STOOP SECTION
1" = 1'-0"



4 TYPICAL SECTION @ OH DOORS
1" = 1'-0"



6 TYPICAL SLAB STEP DETAIL
1" = 1'-0"

FOUNDATION PLAN NOTES:

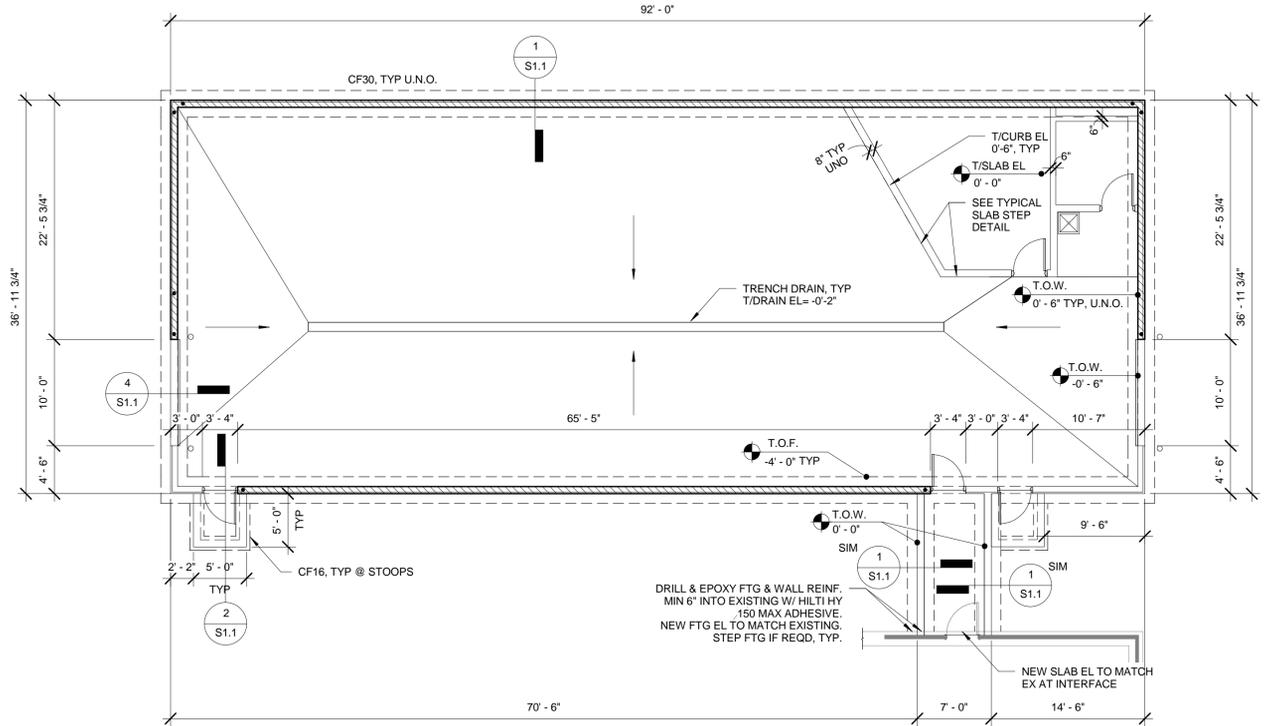
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS.
- COORDINATE OPENINGS IN WALLS AND SLABS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. SEE TYPICAL DETAILS ON SHEET S0.2 FOR ADDITIONAL REINFORCING AROUND OPENINGS.
- NO FIELD CUTTING OF OPENINGS IS ALLOWED.
- SLOPE SLAB TO FLOOR DRAINS. SEE PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS AND COORDINATE SLOPE WITH ARCHITECT.
- FINISHED FLOOR ELEVATION = 0'-0" (EQUALS CIVIL ELEVATION 7'10"-0").
- FLOOR CONSTRUCTION: 6" CONCRETE SLAB ON GRADE WITH #4 BARS @ 18" O.C. (EPOXY COATED) CENTERED IN THE SLAB. OVER 15 ML VAPOR BARRIER. SLAB SHALL BE PLACED OVER 6" OF COMPACTED GRANULAR FILL OVER 12" OF CONDITIONED AND COMPACTED MATERIAL OR AS DIRECTED BY GEOTECHNICAL ENGINEER.
- INDICATES LOCATION OF SIMPSON HDU-4 SHEAR WALL HOLD-DOWN. PROVIDE (2) WALL STUDS AND 5/8" DIA SIMPSON SB 5/8X24 CAST-IN-PLACE ANCHORS AT EA. HOLD-DOWN.
- PROVIDE CONTROL/CONSTRUCTION JOINTS AT A MAXIMUM SPACING OF 10'-0". SUGGESTED CONTROL JOINT LAYOUT IS SHOWN ON SHEET S0.1.
- STEP FOOTINGS AND SLEEVE WALLS AT INTERSECTIONS WITH PIPING AND CONDUITS. DO NOT RUN PIPING BELOW FOOTINGS.
- OVER-EXCAVATION MAY BE REQUIRED BELOW FOOTINGS OR FLOOR SLABS. GEOTECHNICAL ENGINEER SHALL VERIFY THE SUITABILITY OF BEARING MATERIAL. SEE DETAIL 19 ON SHEET S0.2 IF OVER EXCAVATION IS REQUIRED.
- ▨ INDICATES WOOD SHEAR WALL LOCATION. SEE SHEET S2.1.

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT		TRANSVERSE REINFORCEMENT		NOTES
			TOP	BOTTOM	TOP	BOTTOM	
CF16	16"	12"	-	(2) #5	-	-	
CF30	30"	12"	-	(3) #5	-	#4 @ 48"	

NOTES:

- LONGITUDINAL REINFORCEMENT RUNS PARALLEL TO WALL, TRANSVERSE REINFORCEMENT RUNS PERPENDICULAR TO WALL.
- PROVIDE DOWELS SAME SIZE AND SPACING AS WALL VERTICAL REINFORCING. DOWELS SHALL TERMINATE 3" CLR FROM BOTTOM OF FOOTING W/STD 90° HOOK AND EXTEND CLASS B LAP SPLICE LENGTH ABOVE TOP OF FOOTING.
- FOOTINGS ARE CENTERED BELOW WALLS UNLESS NOTED OTHERWISE.



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

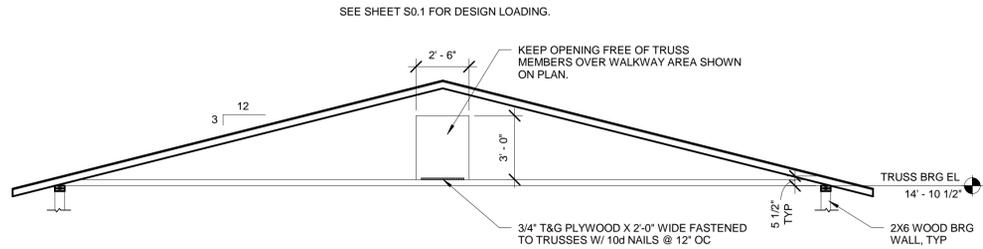
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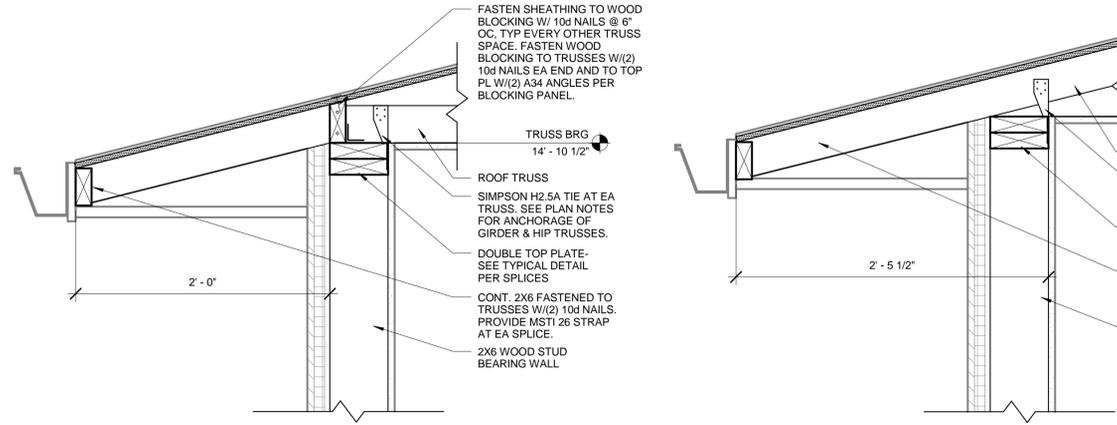
FOUNDATION PLAN AND DETAILS
CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
226 11TH STREET
DEWITT, IOWA 52742

Drawing Issue Information:		Project Description:	
Project Mgr: MAR	Drawn By: IIW	CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE	
Issued for Bidding:	Issued For Construction:	226 11TH STREET	
		DEWITT, IOWA 52742	
Rev	Description	Date	By
	CONSTRUCTION DOCUMENTS	01/20/14	IMR

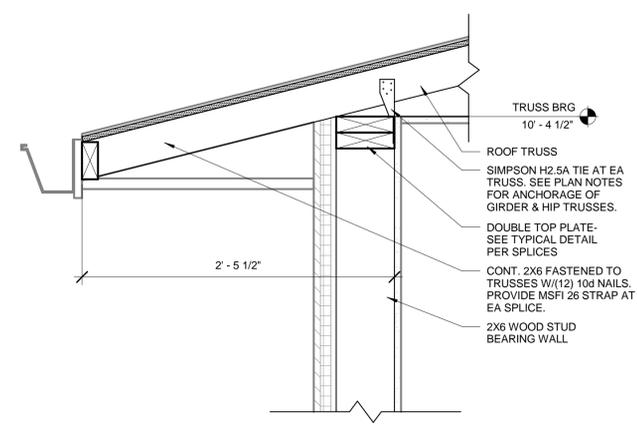
Sheet No: **S1.1**
Project No: 11176-06



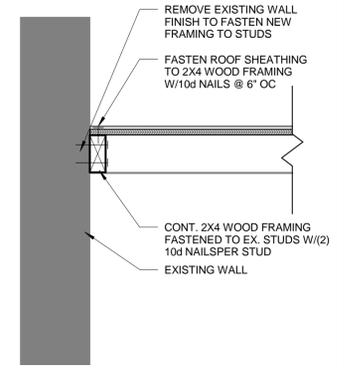
1 ROOF TRUSS PROFILE
1/4" = 1'-0"



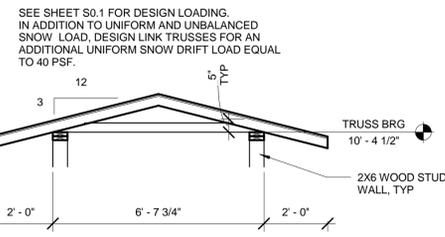
3 TYPICAL TRUSS BEARING SECTION
1 1/2" = 1'-0"



4 ROOF SECTION AT LINK
1 1/2" = 1'-0"



5 ROOF SECTION AT EXISTING
1 1/2" = 1'-0"

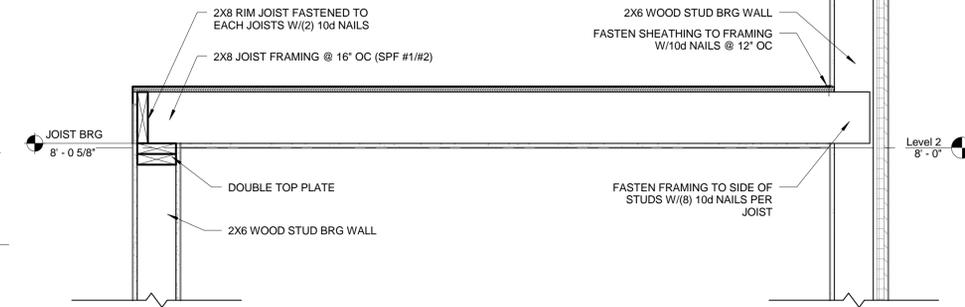


6 LINK ROOF TRUSS ELEVATION
3/8" = 1'-0"

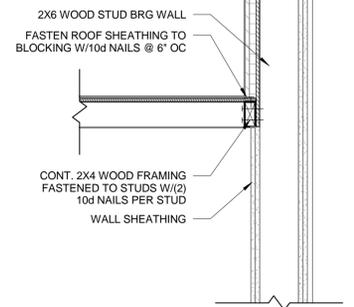
HEADER SCHEDULE			
MARK	HEADER SIZE	FULL HEIGHT STUDS	CRIPPLE STUDS
H1	(3) 2x12 SPF #1/#2	(2) 2x6	(2) 2x6
H2	(3) 2x12 LVL	(4) 2x6	(2) 2x6

- NOTES:
- SEE TYPICAL HEADER DETAIL ON THIS SHEET FOR HEADER CONSTRUCTION.
 - LVL HEADERS SHALL BE MINIMUM 1 3/4x11 1/4, GRADE 1.9E.
 - SEE IBC TABLE 2304.3.1 FOR MINIMUM NAILING REQUIREMENTS.
 - PLACE PLYWOOD FILLERS BETWEEN WOOD PILES TO BUILD OUT HEADERS TO ACTUAL WALL THICKNESS.

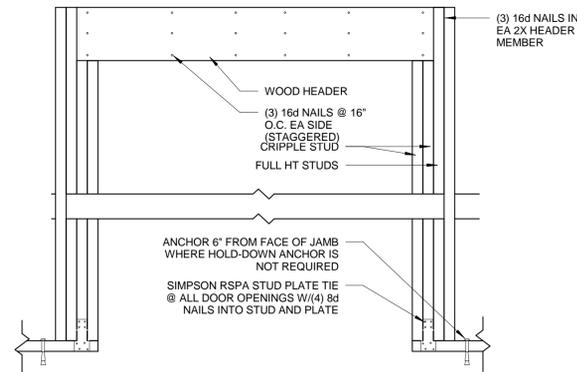
7 HEADER SCHEDULE
1" = 1'-0"



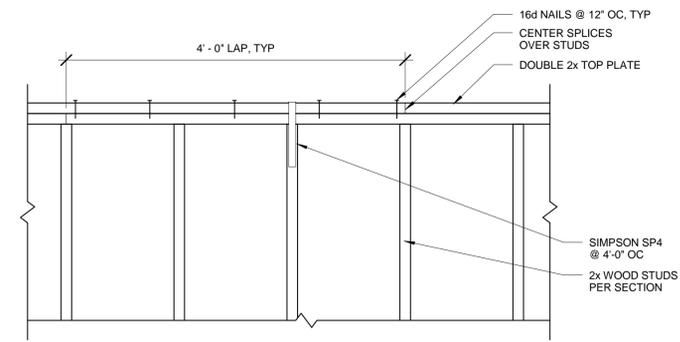
8 FLOOR SECTION AT TOILET
1" = 1'-0"



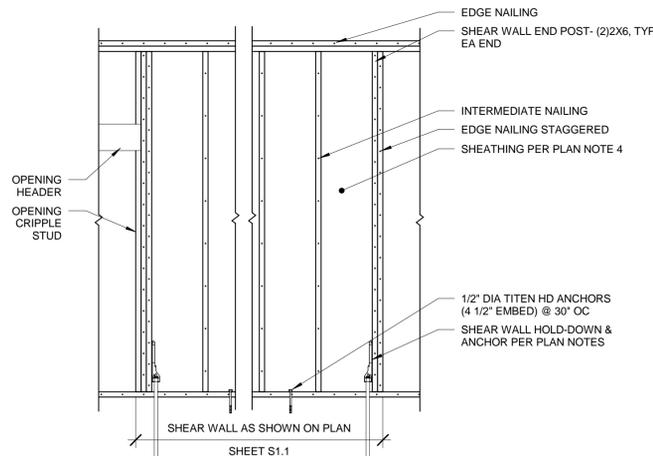
10 ROOF SECTION
1" = 1'-0"



11 TYPICAL BUILD-UP HEADER AT WINDOW & DOOR JAMBS
1" = 1'-0"



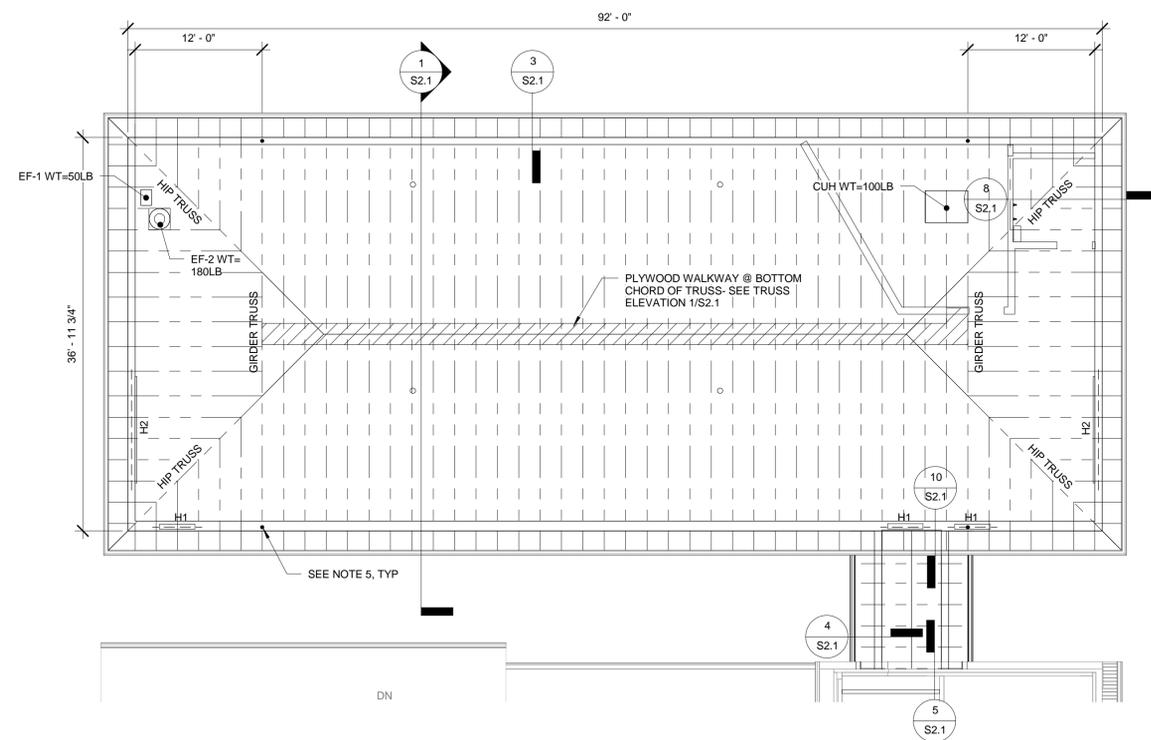
12 TYPICAL DETAIL AT WALL TOP PLATE
1" = 1'-0"



16 TYPICAL SHEAR WALL DETAIL
1/2" = 1'-0"

ROOF FRAMING PLAN NOTES:

- ROOF SHEATHING TO BE MINIMUM 19/32" RATED SHEATHING WITH A 40/20 SPAN RATING, EXPOSURE 1, WITH 10d NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT SUPPORTING MEMBERS.
- ALL TRUSSES TO BE SPACED AT 2'-0" OC (MAX), IN ADDITION TO THE POINT LOADS INDICATED ON THE PLAN, SEE SHEET S0.1 AND TRUSS PROFILES ON THIS SHEET FOR TRUSS LOADING AND PROFILES.
- "LX" INDICATES LINTEL TYPE. SEE SHEET S0.3 FOR LINTEL SCHEDULE AND DETAILS. PROVIDE 2x6 STUDS UNDER GIRDER TRUSS (MATCH # OF STUDS AND # OF PILES OF GIRDER TRUSS, MIN(2)). PROVIDE LINTEL L1 OVER OPENINGS UP TO 3'-4" WIDE AND LINTEL L2 OVER ALL OTHER OPENINGS.
- ALL PERIMETER WALLS ARE 2x6 SPF#1/#2 STUDS @ 16" OC SHEATHED W/ 5/8" APA RATED EXPOSURE 1 SHEATHING, W/ 24/16 SPAN RATING. FASTEN SHEATHING W/ 10d NAILS @ 4" OC AT PANEL EDGES AND 6" AT INTERMEDIATE FRAMING MEMBERS.
- INDICATES GIRDER AND HIP TRUSS TIE. PROVIDE SIMPSON LGT GIRDER TIE-DOWNS AT ENDS OF GIRDER TRUSSES (TO OUTSIDE OF STUD WALL, TYP UNLESS NOTED OTHERWISE), PROVIDE SIMPSON RSPA STUD PLATE TIE FROM STUDS TO SILL PLATE AT GIRDER BEARING, TYP.
- POINT LOADS INDICATED ARE DUE TO MECHANICAL EQUIPMENT. EQUIPMENT NOTED WITH "EF" IS SUPPORTED FROM THE TOP CHORD AND EQUIPMENT NOTED WITH "CUH" IS SUPPORTED FROM THE BOTTOM CHORD. ALL TOP CHORD SUPPORTED EQUIPMENT WILL FIT BETWEEN A STANDARD TRUSS SPACE.
- SEE TYPICAL PERMANENT TRUSS BRACING DETAIL ON SHEET S6.4. FINAL LOCATIONS AND SPACING OF PERMANENT TRUSS BRACING IS BASED ON THE FINAL TRUSS DESIGN.



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

Rev	Description	Date	By
1	CONSTRUCTION DOCUMENTS	01/20/14	IMR

Project Description: CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
Drawing Issue Information: Drawn By: IIW
Project Mgr: MAR
Issued For: Bidding

MAXIMUM PIPING SUPPORT SPACING

PIPE SIZE	1"	1-1/4"	1-1/2"	2"	3"
PVC & CPVC PIPING	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"
COPPER PIPING	6'-0"	6'-0"	6'-0"	6'-0"	10'-0"
STEEL PIPING	7'-0"	7'-0"	7'-0"	7'-0"	10'-0"

- REMARKS:
 1. PROVIDE SUPPORT AT ALL RISERS AND NEAR VALVES.
 2. HANGERS SHALL PROVIDE PROPER SUPPORT AND MEET STATE AND LOCAL CODES.
 3. PROVIDE COPPER RING HANGERS FOR ALL UNINSULATED COPPER PIPING.
 4. PROVIDE INSULATION SHIELD FOR ALL INSULATED PIPE.

PIPE INSULATION SCHEDULE

PIPE SIZE	UP TO 1"	1-1/4" TO 2"	TYPE
DOM. HOT	1.5"	1.5"	REFER TO SPECIFICATIONS
COLD	0.5"	0.5"	REFER TO SPECIFICATIONS

PIPE SHIELD SCHEDULE

PIPE SIZE	LENGTH	MIN. GAUGE
1/2" TO 1 1/2"	4'	32 GA.
2" TO 6"	6'	22 GA.

PLUMBING MATERIAL SCHEDULE

- DOMESTIC WATER PIPING:**
 ALL DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH LEAD FREE SOLDER JOINTS. ALL VALVES SHALL BE FULL PORT BRONZE WITH STAINLESS STEEL TRIM BALL VALVES. NIBCO, WATTS, APOLLO, OR EQUAL.
- SANITARY SEWER PIPING:**
 ALL SANITARY SEWER PIPING SHALL BE SOLID PVC SCHEDULE 40 WITH DRAINAGE FITTINGS. ALL SEWER PIPING SHALL SLOPE PER CODE REQUIREMENTS.
- SANITARY VENT PIPING:**
 ALL SANITARY VENT PIPING SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC WITH DRAINAGE FITTINGS.
- NATURAL GAS PIPING:**
 ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. EACH UNIT MUST HAVE ITS OWN 1/4 TURN ISOLATION VALVE. DIRT LEG AND UNION FITTING. PAINT EXTERIOR PIPING FOR CORROSION PROTECTION.

GENERAL NOTES:

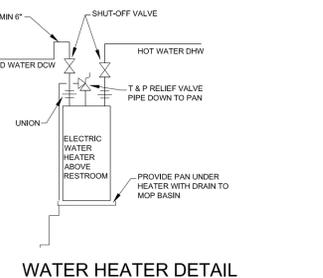
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, FIXTURES, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL EQUIPMENT, PLUMBING, AND PIPING, AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS AS REQUIRED. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH ALL WORK OF OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.
- FURNISH AND INSTALL PLUMBING PRODUCTS IN COMPLIANCE WITH LOCAL BUILDING CODES, THE AUTHORITY HAVING JURISDICTION, AND IN ACCORDANCE WITH GENERALLY ACCEPTED INDUSTRY STANDARDS AND PRACTICES. INSTALL PLUMBING PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS.
- FIRE SEAL PIPING PENETRATING FIRE WALLS, REFER TO ARCHITECTURAL PLANS FOR LOCATION OF WALLS.

SYMBOLS AND ABBREVIATIONS

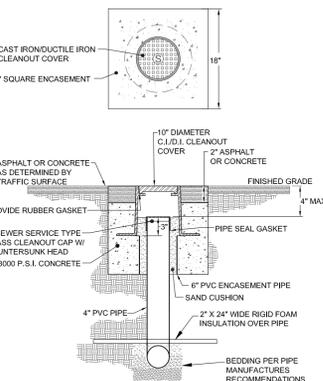
	SHUT OFF VALVE
	CHECK VALVE
	PRESSURE RELIEF VALVE
	SUPPLY DUCT UP
	RETURN / OUTSIDE AIR DUCT UP
	EXHAUST DUCT UP
	SUPPLY DUCT DOWN
	RETURN / OUTSIDE AIR DUCT DOWN
	EXHAUST DUCT DOWN
	DUCT SIZE IS 18" WIDE AND 10" TALL FREE AREA
	MANUAL VOLUME DAMPER
	MOTOR OPERATED CONTROL DAMPER
	FIRE DAMPER (FD)
	SMOKE DAMPER (SD)
	COMBINATION DAMPER (FSD)
	GRAVITY WEIGHTED BYPASS DAMPER
	FLEXIBLE DUCTWORK
	NEW DUCTWORK
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE REMOVED
	AIR TERMINAL REFERENCE - SEE AIR TERMINAL SCHEDULE
	POINT OF CONNECTION OF NEW WORK TO EXISTING OR POINT OF DISCONNECTION OF DEMOLITION WORK
	THERMOSTAT
	OUTSIDE AIR
	TYPICAL
	MANUFACTURER
	EXISTING
	STORM SEWER (TIED TO SUMP PITS)
	SANITARY SEWER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	CLEAN OUT
	YARD CLEAN OUT
	SANITARY VENT PIPING
	NATURAL GAS PIPING

PLUMBING FIXTURE SCHEDULE

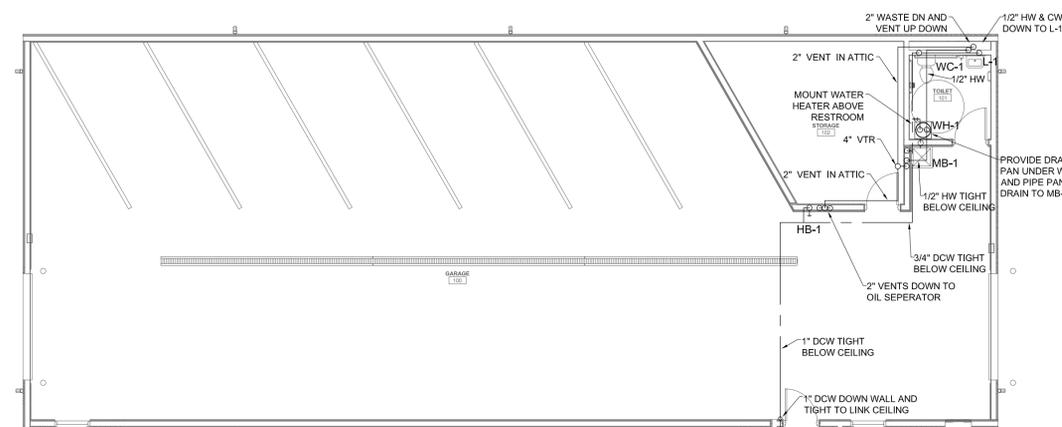
- L-1 LAVATORY SINK**
 ZURN ZS310 20X18 LAVATORY SINK, PROVIDE DELTA FAUCET MODEL Z2C101 WITH 0.8 GPM SPRAY OUTLET, PERFORATED STRAINER, MEASURE LOOSE KEY STOPS AND SUPPLIES WITH CHROME PLATED ESCUTCHEONS.
- 1-1/2" WASTE 1-1/2" VENT 1/2" HW 1/2" CW**
- WC-1 WATER CLOSET**
 ZURN MODEL Z5551 ADA ELONGATED POWER FLUSHING BOWL TANK TYPE WATER CLOSET, PROVIDE WITH NGCURE STOP-VALVE AND WHITE OPEN FRONT SEAT WITH CHECK HINGE.
- 4" WASTE 2" VENT 1/2" CW**
- FD-1 FLOOR DRAIN**
 SIOUX CHEF 800 DND WITH BRONZE RING AND SQUARE STRAINER
- 2" WASTE 2" VENT**
- TD-1 TRENCH DRAIN**
 ZURN Z8964D-CDE TRENCH DRAIN, 6" WIDE WITH HEAVY DUTY FRAME ASSEMBLY, CLASS C DUCTILE IRON SLOTTED GRATE AND 4" END OUTLET, LENGTH = 60"
- 4" WASTE (NO TRAP, TRAP IS OIL AND SEDIMENT SEPARATOR)**
- WH-1 WATER HEATER**
 STATE PATRIOT WATER HEATER MODEL PCE 20 10MSA, 208 V, 4.5 KW, 3 PH. HEATER, .23 GPH AT 80" RISE, INSTALL UNIT ABOVE RESTROOM WITH DRAIN PAN AND PIPE DRAIN PAN TO MB-1.
- 3/4" HW 3/4" CW**
- 2" CW**
- CB-1 FIBERBASIN INC. 3 COMPARTMENT OIL & SEDIMENT BASIN WITH 84 GALLON DETENTION AND CAST IRON FRAME AND COVER RATED FOR HDI LOADING.**
- 4" WASTE 2" VENTS EACH**
- MS-1 MOP SINK**
 ZURN MODEL Z1996 MOLDED STONE 24"x24"x10" SERVICE SINK WITH STAINLESS STEEL BUMPER, STRAINER AND Z842M-RC FAUCET, FAUCET SHALL HAVE VACUUM BREAKER, PALM-HOOK, 3/4" HOSE AND HOSE CLIP.
- 3" WASTE 2" VENT 1/2" HW 1/2" CW**



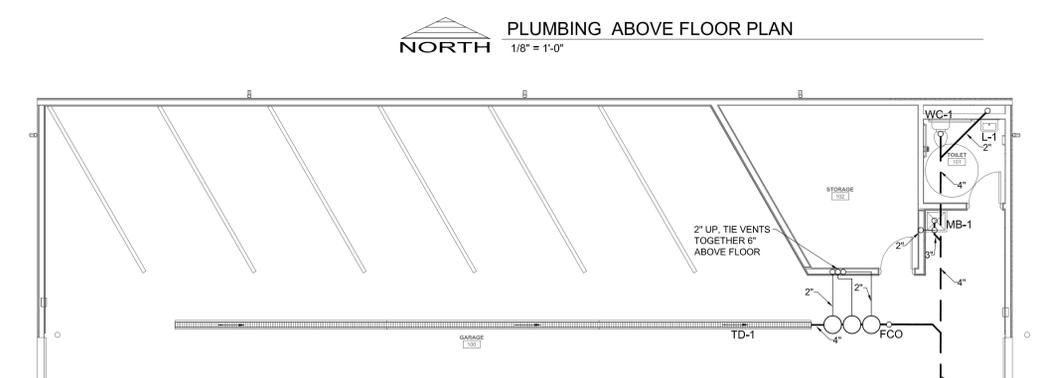
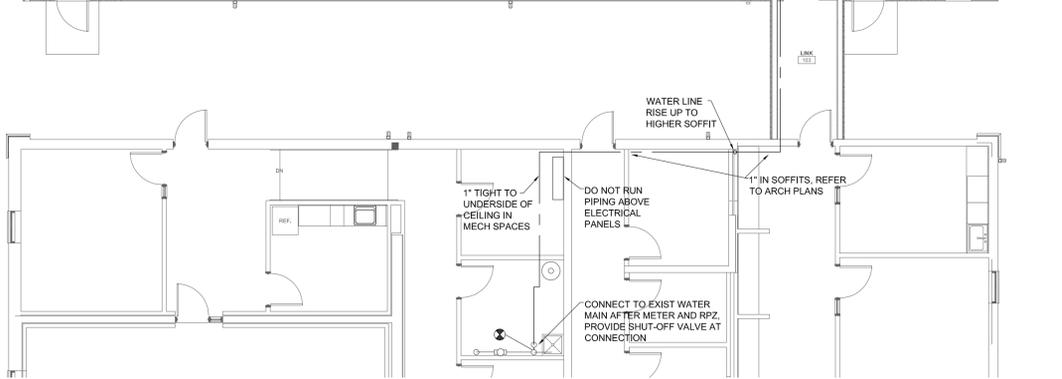
WATER HEATER DETAIL



YCO DETAIL



PLUMBING ABOVE FLOOR PLAN
 1/8" = 1'-0"



PLUMBING BELOW FLOOR PLAN
 1/8" = 1'-0"

iiw
 ARCHITECTURE
 CIVIL ENGINEERING
 CONSTRUCTION SERVICES
 ENVIRONMENTAL ENGINEERING
 LAND SURVEYING
 MUNICIPAL ENGINEERING
 STRUCTURAL ENGINEERING
 TRANSPORTATION ENGINEERING
 INTEGRITY. EXPERTISE. SOLUTIONS.

MEP Engineers

374 BLUFF ST.
 DUBUQUE, IOWA 52001

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PLUMBING PLANS, DETAILS & SCHEDULES

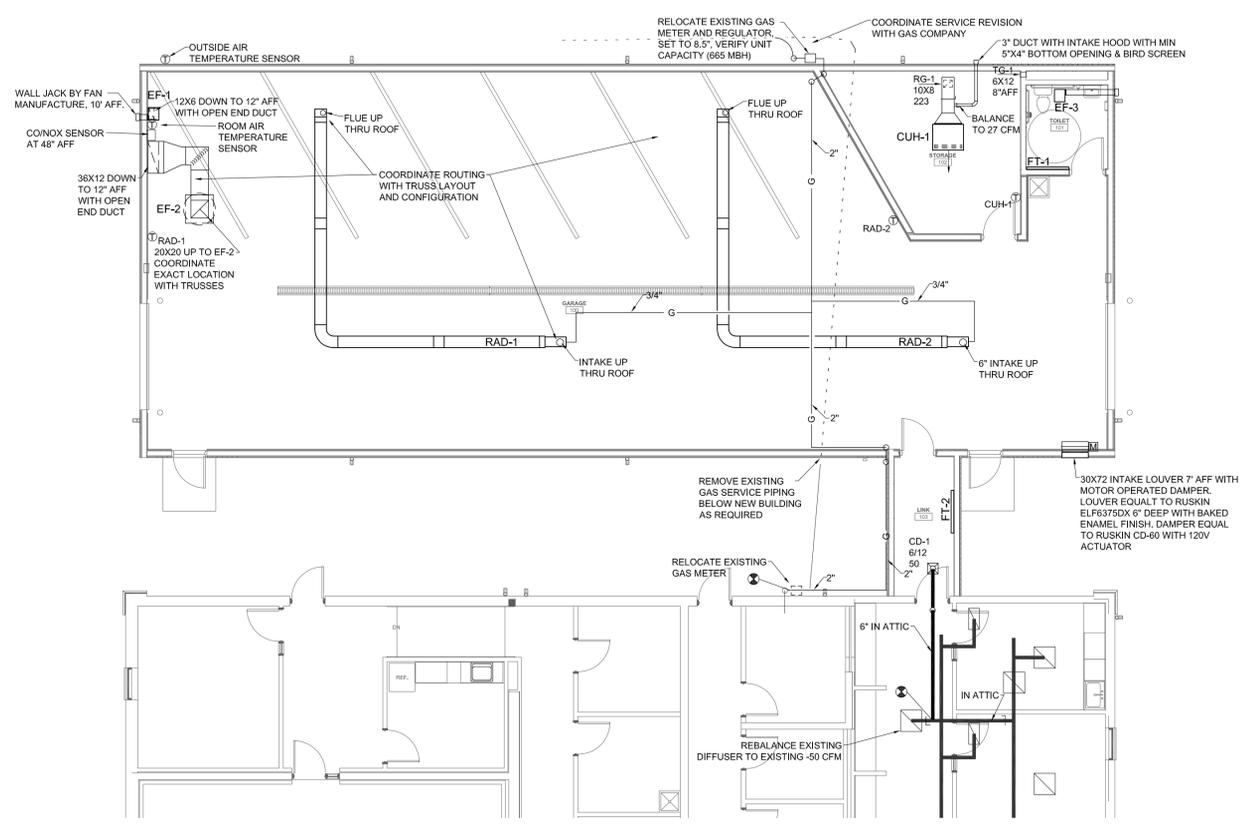
CLINTON COUNTY SATELLITE OFFICE DEWITT
 GARAGE
 226 11TH STREET
 DEWITT, IOWA

Project Description:

Rev	Description	Date	By
1	Construction Documents	1-20-2014	

Drawing Issue Information:
 Project Mgr: RL
 Issued for Bidding:

Drawn By: DM
 Issued For Construction:



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

SYMBOLS AND ABBREVIATIONS

	SHUT OFF VALVE
	CHECK VALVE
	PRESSURE RELIEF VALVE
	SUPPLY DUCT UP
	RETURN / OUTSIDE AIR DUCT UP
	EXHAUST DUCT UP
	SUPPLY DUCT DOWN
	RETURN / OUTSIDE AIR DUCT DOWN
	EXHAUST DUCT DOWN
	DUCT SIZE IS 18" WIDE AND 10" TALL FREE AREA
	MANUAL VOLUME DAMPER
	MOTOR OPERATED CONTROL DAMPER
	FIRE DAMPER (FD)
	SMOKE DAMPER (SD)
	COMBINATION DAMPER (FSD)
	GRAVITY WEIGHTED BYPASS DAMPER
	FLEXIBLE DUCTWORK
	NEW DUCTWORK
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE REMOVED
	AIR TERMINAL REFERENCE - SEE AIR TERMINAL SCHEDULE
	NECK SIZE FACE SIZE C.F.M. NOTES
	POINT OF CONNECTION OF NEW WORK TO EXISTING OR POINT OF DISCONNECTION OF DEMOLITION WORK
	THERMOSTAT
	OUTSIDE AIR
	TYPICAL
	MANUFACTURER
	EXISTING
	STORM SEWER (TIED TO SUMP PITS)
	SANITARY SEWER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	CLEAN OUT
	YARD CLEAN OUT
	SANITARY VENT PIPING
	NATURAL GAS PIPING

GAS FIRED RADIANT HEATER

MARK	MFG	MODEL	INPUT BTU MAX/MIN	MOUNTING HEIGHT	LENGTH	POWER SYSTEM	REMARKS
RAD-1	SPACERAY	LTS-110	110,000/69,500	13'-8" AFF	42' 9", 40' EMITTER	115/1/60 2.6	2 STAGE
RAD-2	SPACERAY	LTS-110	110,000/69,500	13'-8" AFF	42' 9", 40' EMITTER	115/1/60 2.6	2 STAGE

PROVIDE EACH WITH EITHER LINE VOLTAGE OR 24 VOLT THERMOSTAT, SECURITY COVER, ELBOWS, THRU ROOF FLUE AND INTAKES. EACH UNIT SHALL BE 2 STAGE FIRING.

ELECTRIC HEATER

MARK	MANUFACTURE	LOCATION	MODEL	BTU	AIR FLOW	KW	POWER V/PH/HA
FT-1	MARKE	101 RESTROOM	F3710-048B	3,413	250 CFM	1.0	208/1/4.8
FT-2	MARKE	103 LINK	F3710-048B	3,413	---	1.0	208/1/4.8
CUH-1	MARKE	102 STORAGE	6333A042013B3000DF	13,652	250 CFM	4.0	208/1/20

REMARKS:
 1. PROVIDE FT-1 AND FT-2 WITH INTEGRAL THERMOSTAT.
 2. PROVIDE CUH-2 FOR HORZ MOUNTING BELOW CEILING WITH DUCTED RETURN/OUTSIDE AIR AND REMOTE THERMOSTAT.

CENTRIFUGAL EXHAUST FANS

MANUFACTURER : COOK OR EQUAL BY GREENHECK

REF	EF-1	EF-2	EF-3
SYSTEM	CO & NOX EXH	CO & NOX EXH	RESTROOM EXH
MODEL	GN-162	AGE-2 159C10D	GC-124
TYPE	DUCTED	ROOF	DUCTED
DRIVE	DIRECT	DIRECT	DIRECT
AIRFLOW	CFM	145	75
SP	in. wg	0.15	0.10
FAN SPEED	RPM	1,075	900
ELECTRICAL :			
SUPPLY	V/PH/Hz	115/1/60	115/1/60
FAN MOTOR HP OR WATTS		1/3 HP	56.1 WATTS

1. PROVIDE EF-1 AND 3 WITH WALL CAP FOR DISCHARGE.
2. PROVIDE EF-2 WITH ROOF CURB.
3. PROVIDE EACH UNIT WITH BACK DRAFT DAMPER.
4. PROVIDE CO AND NOX SENSOR TO CYCLE EF-2.
5. PROVIDE TEMPERATURE SENSORS TO CONTROL EF-2
6. EF-3 SHALL CYCLE WITH ROOM LIGHT AND MOTION SENSOR BY EC

GENERAL NOTES:

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL EQUIPMENT, DUCTWORK, AND PIPING, AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS AS REQUIRED. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
2. HVAC CONTRACTOR SHALL COORDINATE WITH ALL WORK OF OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.
3. FURNISH AND INSTALL HVAC PRODUCTS IN COMPLIANCE WITH LOCAL BUILDING CODES, THE AUTHORITY HAVING JURISDICTION, AND IN ACCORDANCE WITH GENERALLY ACCEPTED INDUSTRY STANDARDS AND PRACTICES. INSTALL HVAC PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS.

CONTROLS

EF-1 SHALL RUN CONTINUOUSLY.
 EF-2 COMBINATION NO2/CO SENSOR SHALL CYCLE FAN ON TO MAINTAIN LEVEL BELOW SETPOINT. SPACE THERMOSTAT SHALL START FAN FOR COOLING WHEN SPACE IS ABOVE 75 AND OUTSIDE AIR IS BELOW ROOM TEMPERATURE.
 MD-1 SHALL OPEN WHEN EF-2 IS STARTED.
 FT-1 & FT-2 UNIT THERMOSTAT SHALL CYCLE UNIT TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 CUH-2 FAN SHALL OPERATE CONTINUOUSLY. SPACE THERMOSTAT SHALL CYCLE ELECTRIC COIL TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 RAD-1 SPACE THERMOSTAT SHALL STAGE UNIT TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 RAD-2 SPACE THERMOSTAT SHALL STAGE UNIT TO MAINTAIN SPACE TEMPERATURE SETPOINT.

DIFFUSERS & GRILLES

KRUEGER, PRICE, TITUS OR EQUAL

MARK	MFG	STYLE	MOUNTING	FACE SIZE	THROW	N.C.	SERVICE	REMARKS
CD-1	KRUEGER	FLQ	CEILING SURFACE	SEE PLAN	---	25	RETURN	
RG-1 & TG-1	KRUEGER	S90	SIDEWALL	SEE PLAN	---	25	RETURN	

TYPE REFER TO SCHEDULE
 RG-1 - NECK SIZE RECTANGULAR
 12X10 - SIZE, FOR ROUND DUCT (DIA/FACE)
 300 - CFM

Project Description:

Rev	Description	Date	By
1	Construction Documents	1-20-2014	

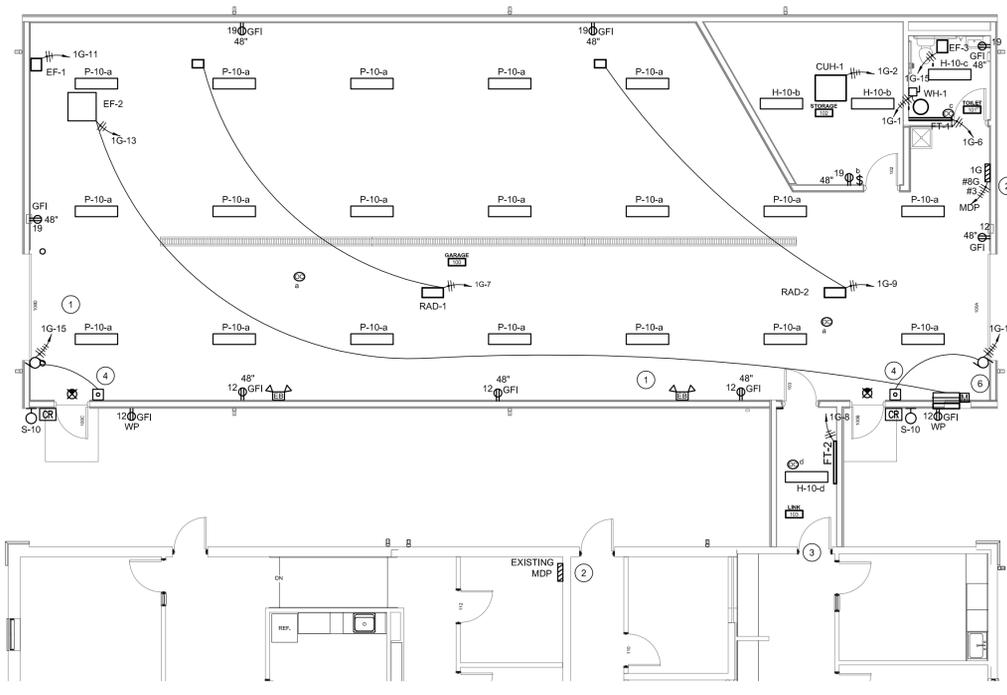
Sheet No:

PANEL 1G ELECTRICAL PANEL SCHEDULE PROJECT: DEWITT ANNEX											
LOAD DESCRIPTION	LOAD (VA)	BRKR #	CKT #	PHASE			CKT #	BRKR #	LOAD (VA)	LOAD DESCRIPTION	
				A	B	C					
WATER HEATER	1500	20	3	1	3500	3500	2	30	2	2000	CABINET UNIT HEATER
WH-1	1500		3				4			2000	CUH-1
RADIANT HEATER RAD1	312	20	1	7	1312		8	20	1	1000	ELECTRIC HEATER FT-1
RADIANT HEATER RAD2	312	20	1	9	1284		10	20	1	972	LIGHTING
EXHAUST FAN EF-1	100	20	1	11		1180	12	20	1	1080	RECEPTACLES
EXHAUST FAN EF-2	500	20	1	13	1604		14	15	3	1104	GARAGE DOORS
EXHAUST FAN EF-3	100	20	1	15	1204		16			1104	
PARKING LOT LIGHTING	1286	20	1	17		2370	18			1104	
RECEPTACLES	900	20	1	19	900		20	20	1	0	
	0	20	1	21			22	20	1	0	
	0	20	1	23			24	20	1	0	
	0	20	1	25			26	20	1	0	
	0	20	1	27			28	20	1	0	
	0	20	1	29			30	20	1	0	
	0	20	1	31			32	20	1	0	
	0	20	1	33			34	20	1	0	
	0	20	1	35			36	20	1	0	
	0	20	1	37			38	20	1	0	
	0	20	1	39			40	20	1	0	
	0	20	1	41			42	20	1	0	

PANELBOARD INFORMATION	CONNECTED LOAD	DEMAND CALCULATIONS
120/208V-3PHASE-4W	LIGHTING 2.2 KVA	2.8 KVA @ 125%
100 A BUS RATING	RECEPTACLES 2.0 KVA	2.0 10KVA @ 100%, REMAIN @ 50%
100 A MAIN BREAKER RATING	LARGEST MTR 1.7 KVA	2.1 KVA @ 125%
SURFACE MOUNTING	MOTORS 3.0 KVA	3.0 KVA @ 100%
PANELBOARD NOTES	KITCHEN EQUIP. 0.0 KVA	0.0 KVA @ 65%
	APPLIANCES 10.5 KVA	13.1 KVA @ 125%
	OTHER 0.0 KVA	0.0 KVA @ 100%
	TOTAL 19.4 KVA	23.0 KVA @ 100%
	TOTAL 53.8 A	63.8 A

A PHASE DEMAND	71.5 A	8.6 KVA
B PHASE DEMAND	60.4 A	7.2 KVA
C PHASE DEMAND	59.4 A	7.1 KVA

LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	MODEL	LAMP	QTY	VA	MTG	NOTES
EB	DUALITE	LZ20N1-10W	MR16	2	5	WALL	EMERGENCY
H	CREE	CR14-22L-40K	LED	-	22	RECESSED	RECESSED 1X4 FIXTURE
P	DAYBRITE	DWAES1L840-4-UNV	LED	-	50	SURFACE	SURFACE MOUNTED GARAGE FIXTURE
S	DUALITE	PGNW	LED	-	17	WALL	445 LUMEN LED WALL W BATTERY BACK UP
T	GARDCO	ECF-1-3-215LA-641A-NW-UNV-BRP-IS	LED	-	211	POLE	AREA LIGHT WITH SSP25-4.0-7-BRZ-DM10-BC POLE
V	GARDCO	ECF-2-4-215LA-641A-NW-UNV-BRP-IS	LED	-	422	POLE	AREA LIGHT WITH SSP25-4.0-7-BRZ-DM2180-BC POLE
X	DUALITE	LTUGWDI003	LED	-	1	PENDENT	GREEN LED EXIT



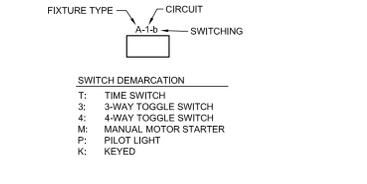
- KEYED NOTES:**
- PHASE ONE DRAWINGS INDICATE POWER AND PHONE DATA CONDUIT ROUTED IN FOOTPRINT OF GARAGE. VERIFY LOCATION OF CONDUITS IN FIELD.
 - CONTRACTOR SHALL PROVIDE A 100A, 3P BREAKER IN EXISTING MDP TO FEED PANEL 1G.
 - CONTRACTOR SHALL REMOVE EXISTING EXIT LIGHT AND EXTERIOR EGRESS FIXTURE ON DOOR THAT LEADS TO NEW GARAGE. CONTRACTOR SHALL REUSE EXISTING EXTERIOR FIXTURE IF NOT DAMAGED DURING REMOVAL. TURN OVER EXIT FIXTURE TO OWNER.
 - PROVIDE GARAGE DOOR CONTROL.
 - VERIFY OVERHEAD ELECTRICAL LINE WILL BE HIGHER THAN TOP OF FIXTURE AND POLE AFTER INSTALLATION IS COMPLETE.
 - PROVIDE TWO 1" EMPTY CONDUITS FROM FUTURE SIGN LOCATION TO GARAGE. SEE SITE PLAN.

- GENERAL NOTES**
- CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING.
 - ALL WIRING SHALL BE CONCEALED IN ALL FINISHED SPACES UNLESS OTHERWISE NOTED.
 - COMPLY WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES. OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS. CONTRACTOR IS RESPONSIBLE FOR ANY ASSOCIATED FEES.
 - INSTALL A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURE THAT THE SYSTEM IS FUNCTIONAL UPON JOB COMPLETION. FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 - PROVIDE A CONTINUOUS INSULATED EQUIPMENT GROUNDING CONDUCTOR TO ALL ELECTRICAL DEVICES.
 - ALL WIRING SHALL BE TYPE THHN / THWN IN CONDUIT.
 - LIGHTING FIXTURES SHALL BE PER FIXTURE SCHEDULE OR APPROVED EQUAL. SUBSTITUTIONS REQUESTS WILL ONLY BE ACCEPTED FROM ELECTRICAL CONTRACTORS.
 - ALL WIRING DEVICES SHALL BE PASS & SEYMOUR CONSTRUCTION GRADE OR APPROVED EQUAL.
 - PANELBOARDS SHALL BE SQUARE D, SEIMENS, OR G.E. WITH BOLT ON BREAKERS.
 - CONNECT EXIT LIGHT FIXTURES TO NEAREST UNSWITCHED CIRCUIT SERVING AREA.
 - ALL WALL MOUNTED DEVICES SHALL BE EXTENDED TO THE INTERIOR FACE OF THE SIDING. REFER TO ARCHITECTURAL DETAILS.
 - PARKING LOT POLES SHALL BE INSTALLED ON A CONCRETE BASE PER CIVIL DRAWINGS. PROVIDE PHOTO CONTROL OF ALL PARKING LOT FIXTURES ON A SINGLE UNIT MOUNTED ON GARAGE.

ELECTRICAL SYMBOL SCHEDULE - LIGHTING

LIGHTING	
	EMERGENCY BATTERY PACK
	EMERGENCY EXIT FIXTURE
	STRIP FIXTURE
	LIGHT FIXTURE
	CYLINDER FIXTURE
	WALL SCONCE
	OCCUPANCY SENSOR - INFRARED ONLY
	LIGHT SWITCH
	POLE MOUNTED FIXTURE

LIGHTING GENERAL INFORMATION



ELECTRICAL SYMBOL SCHEDULE - POWER

POWER	
	MULTIPLE OUTLET RACEWAY WIREMOLD V2000 PLUGMOLD GB SERIES WITH PRE-WIRED OUTLETS 12" OC WALL MOUNT @ 42" ABOVE FINISHED FLOOR OR AS INDICATED.
	FLOORBOX RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	CEILING RECEPTACLE
	ABOVE COUNTER RECEPTACLE
	SPECIAL RECEPTACLE
	JUNCTION BOX
	TELEVISION SYSTEM OUTLET PROVIDE TWO-GANG PARTITIONED BOX WITH STAINLESS STEEL COVERPLATE WITH RECEPTACLE AND COAXIAL CABLE CONNECTIONS
	SAFETY SWITCH
	FUSED DISCONNECT
	STARTER SIZE 0 UNLESS OTHERWISE NOTED
	COMBO STARTER / FUSED DISCONNECT WITH COVER INTERLOCK
	EXTENSION CORD / CABLE REEL
	POWER / SIGNAL POLE
	AUTOMATIC TRANSFER SWITCH
	GROUNDING BAR
	PUSH BUTTON
	MOTOR
	CARD READER

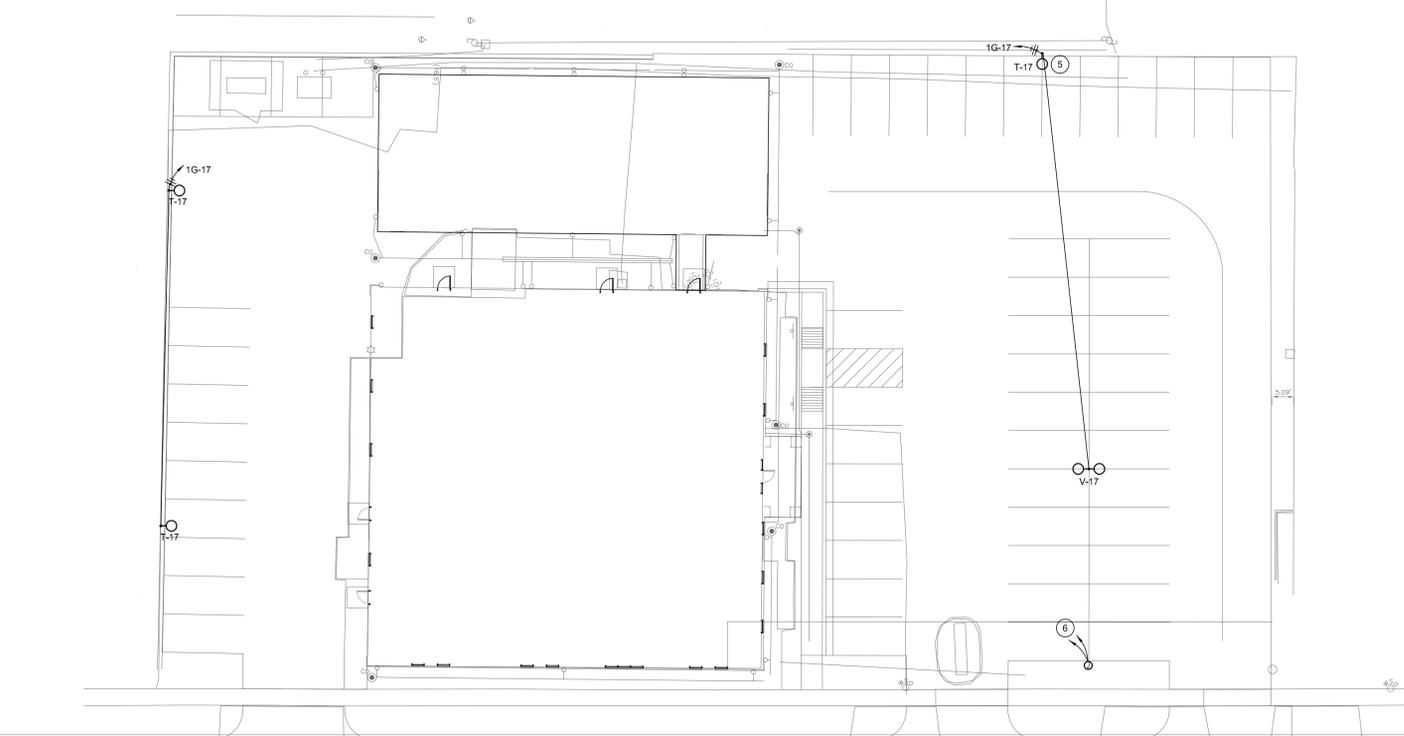
POWER EQUIPMENT

	DISTRIBUTION SWITCHBOARD		CONDUIT RUN UP
	BRANCH CIRCUIT PANELBOARD NEW OR EXISTING		CONDUIT RUN DOWN
	TRANSFORMER		CONDUIT STUB OUT
			CONDUIT CONTINUATION

POWER GENERAL INFORMATION

TYPICAL OF ALL DEVICES	DEMARCATION
	CIRCUIT
	WP: WEATHERPROOF MOUNT IN NEMA-JR BOX WITH CAST ALUMINUM LIFT COVER
	GFI: GROUND FAULT INTERRUPT
	XP: EXPLOSION PROOF
	T: TAMPER PROOF

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



ELECTRICAL SITE PLAN
1" = 20'-0"

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ELECTRICAL FLOOR PLAN
CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
226 11TH STREET
DEWITT, IOWA

Rev	Date	By	Description
1	1-20-2014	SVS	Construction Documents

Project Description: CLINTON COUNTY SATELLITE OFFICE DEWITT GARAGE
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Project Mgr: MAR
Issued For Bidding:

E1.0
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