

CITY OF HASTINGS

ADDENDUM NO. 2

March 13, 2026

East Gate Plaza Water Meter House

Contract No. HU 2026-28

1. **Updated Proposal Sheet:** Included in this addendum.
 - a. Proposal Titled "Addendum 2 Revision" shall replace previous versions.
 - b. Changes include line items: 8, 19a, 19b, 35
2. **Update Plan Sheets:** Recorded as REV1. Addresses bust on buried piping. Lowers building interior piping by 1.5' and raised finished floor 4" to align with Addendum 1 addition of 15 CY of compacted fill.

CITY OF HASTINGS

By Keith Miller P.E.

Title Engineer

The undersigned bidder hereby certifies that the revision set forth in this addendum have been incorporated in their bid and are a part of the contract documents.

Signed _____

Title _____

Firm _____

Date _____

**ALL ISSUED ADDENDUM(S) MUST BE ACKNOWLEDGED
& RETURNED WITH YOUR BID DOCUMENTS**

**ADDENDUM 2 REVISION: FORMAL PROPOSAL FOR
EAST GATE PLAZA WATER METER HOUSE
CITY OF HASTINGS
CONTRACT NO. HU 2026-28**

TO: City of Hastings
1228 N Denver Avenue
Hastings NE 68901

BID OPENS: March 18, 2026 @ 4:00 PM

**SEALED BIDS MUST BE RECEIVED NO LATER
THAN 1:30 PM SAME DAY. BIDS RECEIVED AFTER
THAT TIME WILL NOT BE ACCEPTED.**

We, the undersigned, being familiar with all parts of these documents, being Notice to Bidders, Bid Proposal Price Sheets, Contract Document Forms, Plans and Specifications, Affidavit, Material List, and all other parts of this document, do herein submit our proposal to furnish, install, and perform all tasks required to complete said project area(s) for the total costs; including all necessary state and local sales taxes, and any other required taxes.

Completion Date: June 30, 2026

**Any modifications of bid proposal will be considered non-conformance of the bid.
All exceptions to the proposal shall be noted as an exception of the bid.**

Project Line Items

Item	Quantity		Description	Unit Price		Total
1	1	EA	MOBILIZATION		EA	
2	1	LS	METER BUILDING		LS	
3	1	LS	ELECTRICAL IMPROVEMENTS		LS	
4	1	LS	REMOVE WATER METER PIT		LS	
5	1	EA	REMOVE EXISTING VALVE		EA	
6	32	SY	REMOVE EXISTING PAVEMENT		SY	
7	75	SY	REMOVE & REPLACE EXISTING PAVEMENT		EA	
8	350	LF	6" DIP PC350		LF	
9a*	1	EA	10"x6" MJ TAPPING TEE & VALVE	\$4,746.82	EA	\$ 4,746.82
9b	1	LS	Construction Costs for Item "9a"		LS	
10	2	EA	6"x6" MJ TEE		EA	
11	4	EA	6"x6" FL TEE		EA	
12	4	EA	6" MJ PLUG		EA	
13	2	EA	6" MJ 90°		EA	
14	4	EA	6" FL 90°		EA	
15	4	EA	6" MJ 22.5°		EA	
16	4	EA	6" MJ Gate Valve		EA	
17	8	EA	6" FL NRS Gate Valve		EA	
18	2	EA	6"x4" MJ Tee		EA	
19a	30.44	LF	6" DIP SPOOL PIPE		LF	
19b	12	EA	6" DIP FLANGES		EA	
20	14	EA	6" MEGALUG		EA	
21	2	EA	4" MEGALUG		EA	
22	2	EA	4" COUPLING		EA	
23	4	LF	4" DIP PC350		LF	
24	1	LS	TRACER WIRE, RISER, BURY TAPE		LS	

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25	6	EA	PIPE SUPPORT		EA	
26	2	EA	6” DISMANTLING JOINT		EA	
27	2	EA	RPZ ASSEMBLY		EA	
28a*	1	LS	6” COMPOUND WATER METER	\$9,188.26	LS	\$ 9,188.26
28b	1	LS	Construction Costs for item “28a”		LS	
29	30	LF	4” SDR 35 DRAIN PIPE		LF	
30	3	EA	4” SDR 35 45° BEND		EA	
31	1	EA	4” SDR 35 WYE		EA	
32	2	EA	4” SDR 35 TRAP		EA	
33	2	EA	12” Ø x 6” SUMP W/ 4” FLOOR DRAIN		EA	
34	15	CY	COMPACTED FILL FOR BUILDING FOUNDATION		CY	
35	8	EA	THRUST BLOCK		EA	
Total Cost Base Bid:						\$
(In Words)						
By:				Date:		
Signature:						

*City of Hastings supplied and paid for by contractor.

For purposes of sales/use tax, this project falls under Nebraska Sales and Use Tax Regulation 1-017 for Contractors. By definition, a contractor is "any person who repairs property annexed to, or who annexes property to, real estate, including leased property, by attaching building materials to the annexed property or improvement being built or repaired, or who arranges for annexation of property." Please refer to www.revenue.nebraska.gov/salestax.html for additional information.

For calculating this proposal:

- All contractors are to include sales/use tax on materials in the bidder's prices if applicable.
- **Option 1 contractors must separately state materials, sales tax, labor, and other charges on all invoices for the project. Any invoices submitted that do not include this required breakdown of the charges will not be accepted for payment. (This requirement does not apply to Option 2 or 3 contractors.)**
- The sales/use tax rate on building materials is 7.0% for projects within Hastings' city limits and 5.5% for projects outside of city limits.
- Contractor labor charges for this proposal are not subject to sales/use tax per the Nebraska Department of Revenue Notice to Contractors effective October 1, 2007.
- In submitting this bid, the bidder certifies that he will comply with all applicable laws, ordinances, and codes of the City of Hastings and the State of Nebraska.
- **Project is located INSIDE OF CITY LIMITS (7%)**

What contractor option have you registered with the Nebraska Department of Labor (must select one)?
Please refer to <https://dol.nebraska.gov> for additional information.

Option 1 _____

Option 2 _____

Option 3 _____

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EAST GATE PLAZA WATER METER HOUSE
CITY OF HASTINGS
CONTRACT NO. HU 2026-28**

Any modification of bid proposal will be considered non-conformance of the bid. All exceptions to the proposal shall be noted as an exception to the bid.

Exceptions: No ☐ Yes ☐ (If yes, list on ***“Instructions to Bidders”*** page)

Liquidated Damage: The Contractor shall pay a fee of \$100.00 per working day for failure to perform work within either the specified project period or the contract completion date in accordance with Paragraph 1.806 and 1.807 of the general conditions and Paragraph 2.002 of the Special Provision.

City of Hastings may at its own discretion delete any project area prior to award of contract.

In submitting this proposal, it is further understood that the City of Hastings Utilities Department reserves the right to reject any or all proposals, whether the price is the lowest or not, and may waive any informalities and may accept the proposal which best suits its needs. It is further understood that this proposal may not be withdrawn for a period of sixty days (60) days after the bids are opened.

All bid documents, including proposals, bid bonds, etc., must be submitted with original signatures. No copies will be accepted.

OFFICIAL NAME & ADDRESS

_____ Firm Name	_____ Signature
_____ Address	_____ Typed or Printed Name
_____ City, State, Zip	_____ Title
_____ Phone No.	_____ Date
_____ Fax No.	_____ Email Address

PUBLIC IMPROVEMENT PLANS FOR: EAST GATE PLAZA WATER METER HOUSE

HASTINGS, NEBRASKA

LAT: 40.58157, LONG: -98.36488

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF HASTINGS STANDARD PLANS AND SPECIFICATIONS.
2. THE LOCATION OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES MAY NOT BE INDICATED ON THESE PLANS. UNDERGROUND UTILITIES, WHETHER INDICATED OR NOT WILL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITY FACILITIES UNTIL ALL SUCH FACILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES. THE EXCAVATION MUST BE ACCOMPLISHED WITH EXTREME CARE IN ORDER TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES.
3. CONTRACTOR SHALL PRESERVE ALL PROPERTY CORNER MONUMENTS OR RE-ESTABLISH THEM IF THEY ARE DISTURBED DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY THE COST OF ALL REQUIRED PERMITS AND FEES.
5. CONTRACTOR TO PROVIDE ALL INCIDENTAL FITTINGS NECESSARY TO COMPLETE WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF TESTS AS REQUIRED INCLUDING WATER LINE TESTING AND DISINFECTION.
7. TRENCH EXCAVATION SHALL MEET ALL OSHA REGULATIONS, AND BE AT MINIMUM 6' WIDE X 6' LONG. IF TRENCH IS LESS THAN 6' IN EITHER DIRECTION, THE CONTRACTOR SHALL SUPPLY AND INSTALL A TRENCH BOX OR SHORING.
8. TRENCH EXCAVATION & BACKFILL SHALL BE MECHANICALLY TAMPED BY THE CONTRACTOR & TESTED. COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF HASTINGS SPECIFICATIONS.
9. ALL BENDS SHALL BE BLOCKED OR UTILIZE RESTRAINED JOINTS AS APPROVED BY ENGINEER. FOR DETAILS OF THRUST BLOCKS, ANCHORS, AND TEE BLOCKS, SEE DETAILS SHEET.
10. NEW WATER SERVICE SHALL BE DUCTILE IRON PIPE.
11. CONCRETE BLOCKING FOR FITTINGS SHALL BE SUBSIDIARY TO THE FITTINGS.
12. ALL WORK OUTSIDE OF RIGHT-OF-WAY TO BE DONE UNDER THE DIRECTION OF A LICENSED PLUMBER. A PERMIT WILL BE REQUIRED.
13. CONTRACTOR TO COORDINATE WATER FLUSHING OPERATIONS WITH WATER SYSTEM CONTROL (402-462-3621). CONTACT MUST BE MADE AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING VALVES TO GRADE AS NECESSARY.
15. METER BUILDING SHALL FOLLOW PERFORMANCE SPECIFICATIONS PROVIDED BY THE ENGINEER AND INCLUDE ALL THE MECHANICAL, ELECTRICAL, AND STRUCTURAL ELEMENTS LISTED IN THE PERFORMANCE SPECIFICATIONS. SHOP DRAWINGS MUST BE SUBMITTED TO THE CITY AND APPROVED PRIOR TO COMMENCING BUILDING CONSTRUCTION.

TESTING & SAMPLING

1. PLUMBING CONTRACTOR MUST SUPPLY TAP, EXTENSION PIPING, AND VALVING AS DIRECTED BY THE UTILITY DEPARTMENT, FOR TESTING AND SAMPLING.
2. PLUMBING CONTRACTOR MAY HIRE CITY PERSONNEL TO CHLORINATE PIPING OR CHOOSE TO CHLORINATE PIPING THEMSELF
3. IF THE WATER SERVICE WILL BE INSTALLED BY MORE THAN ONE CONTRACTOR, OR IF THE SERVICE IS INSTALLED IN MULTIPLE STAGES, EACH PHASE WILL BE SUBJECT TO INDIVIDUAL TESTS AND RELATED FEES.



VICINITY MAP
SCALE: 1"=500'

INDEX OF DRAWINGS	
1	COVER SHEET
2	SITE REMOVALS
3 - 4	WATER SERVICE PLAN
5	WATER METER HOUSE PLAN
6	WATER METER HOUSE SECTIONS
7.1 - 7.2	WATER METER HOUSE DETAILS
8	TYPICAL DETAILS
9	TEMPORARY TRAFFIC CONTROL
10 - 12	ELECTRICAL SITE/BUILDING PLAN

TABLE OF APPROXIMATE QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
MOBILIZATION	EA.	1
METER BUILDING	L.S.	1
ELECTRICAL IMPROVEMENTS	L.S.	1
REMOVE WATER METER PIT	L.S.	1
REMOVE EXISTING VALVE	EA.	1
REMOVE EXISTING PAVEMENT	S.Y.	32
REMOVE & REPLACE EXISTING PAVEMENT	S.Y.	75
6" D.I. WATER MAIN W/ TRACER WIRE & BURY TAPE	L.F.	263 350
10"x6" M.J. TAPPING TEE & VALVE	EA.	1
6"x6" M.J. TEE	EA.	2
6"x6" FL. TEE	EA.	4
6" M.J. PLUG	EA.	4
6" M.J. 90° BEND	EA.	2
6" FL. 90° BEND	EA.	4
6" M.J. 22.5° BEND	EA.	4
6" M.J. GATE VALVE	EA.	4
6" RESILIENT WEDGE GATE VALVE	EA.	8
6"x4" M.J. TEE	EA.	2
6" M.J. SPOOL	EA.	4
6" FL. SPOOL	EA.	7
6" M.J. MEGALUG RESTRAINT	EA.	14
4" M.J. MEGALUG RESTRAINT	EA.	2
4" COUPLING	EA.	2
4" D.I. WATER SERVICE	L.F.	4
TRACER WIRE RISER	EA.	1
THRUST BLOCK	EA.	6 8
PIPE SUPPORT	EA.	6
6" DISMANTLING JOINT	EA.	2
6" REDUCED PRESSURE VALVE ASSEMBLY	EA.	2
6" COMPOUND SERIES WATER METER	L.S.	1
4" SDR 35 DRAIN PIPE	L.F.	30
4" SDR 35 45° BEND	EA.	3
4" SDR 35 WYE	EA.	1
4" SDR 35 TRAP	EA.	2
12" Ø X 6" SUMP W/ 4" FLOOR DRAIN	EA.	2

* ITEM SHALL BE FURNISHED BY THE CITY OF HASTINGS (COH) AND
INSTALLED BY THE CONTRACTOR.

I, ADRIAN TARANGO, AM THE
COORDINATING PROFESSIONAL ON
THE EAST GATE PLAZA WATER
METER HOUSE PROJECT.

olsson®

201 East 2nd Street
Grand Island, NE 6880

Olsson - Engineering
Nebraska COA #CA-06



3Y

DESCRIPTION

DATE _____

REV. 11/01

COVER SHEET

WATER METER HOUSE
EAST GATE PLAZA

REVISIONS

2026

HASTINGS, NE

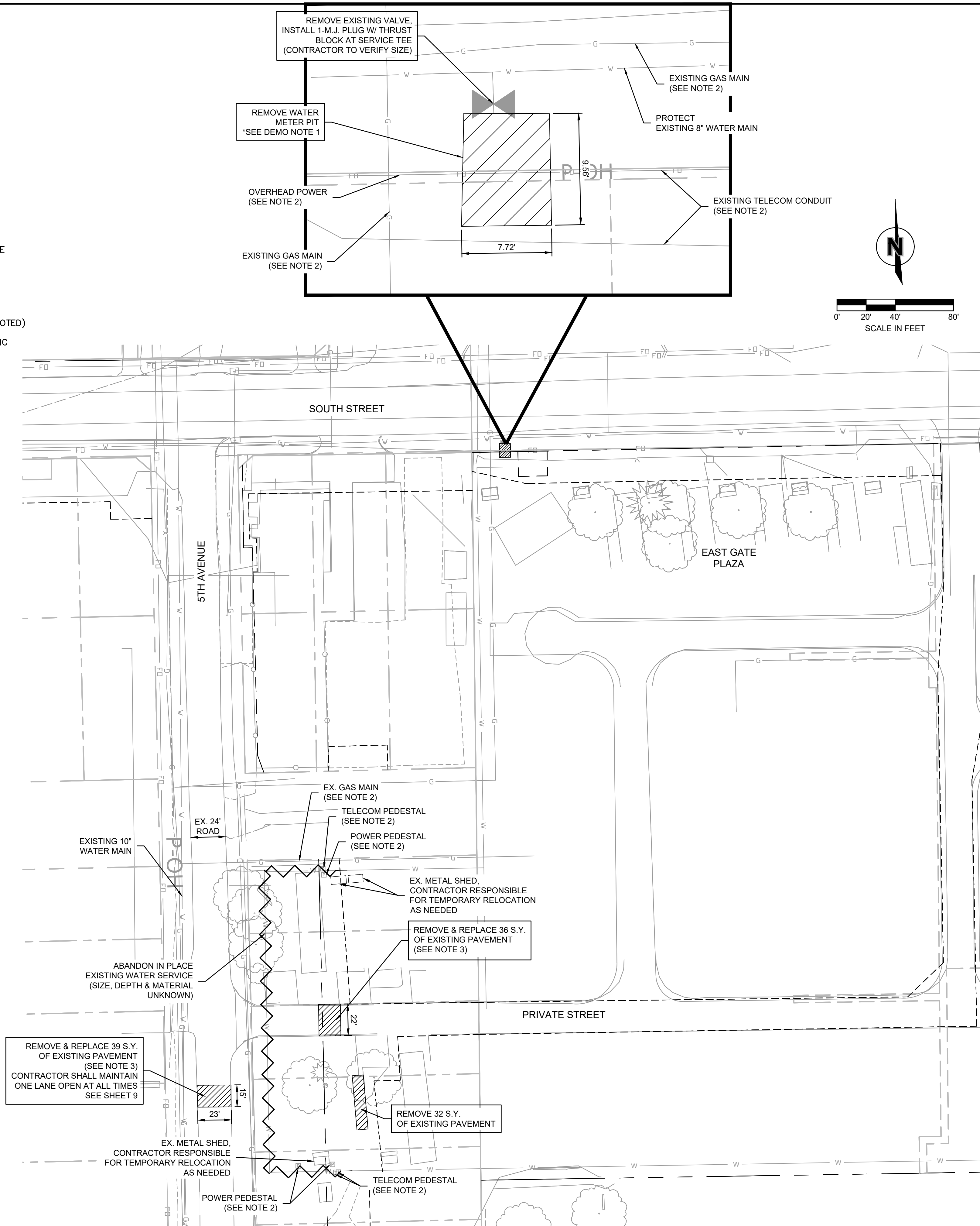
drawn by: _____ AS
designed by: _____ AS
project no.: _____ 025-0473
date: _____ FEBRUARY, 202

SHEET
1 of 12

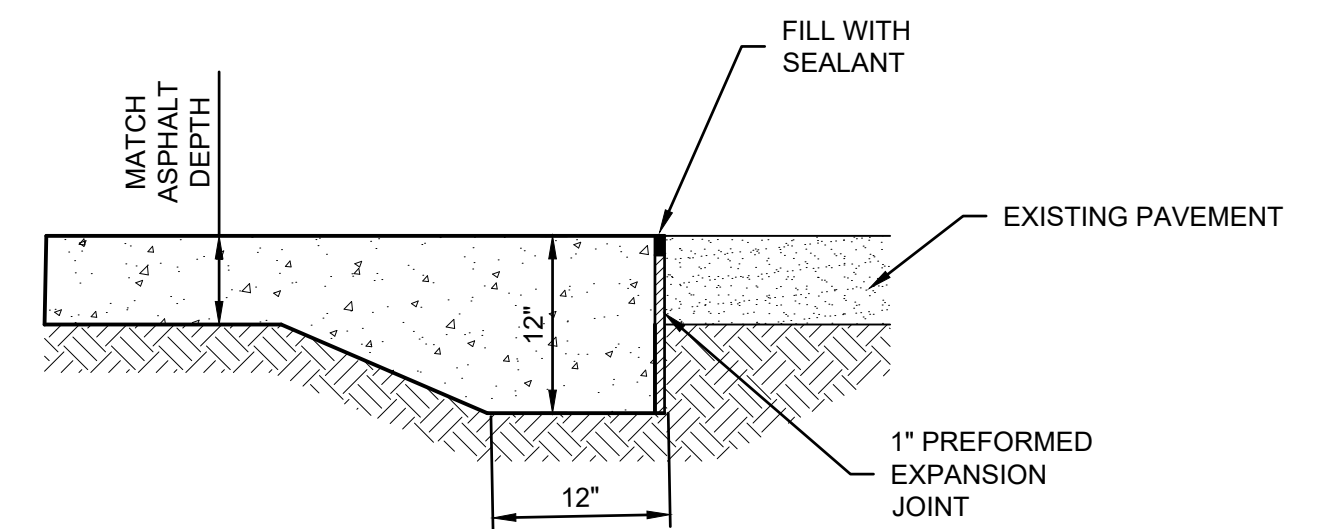
	CONTROL POINT
	SIGN
	FIRE HYDRANT
	LIGHT POLE
	SPRINKLER HEAD
	TRANSFORMER
	ELECTRIC VAULT
	SPRINKLER BOX
	CATCH BASIN
	TELEPHONE BOX
	POWER POLE
	ELECTRIC BOX
	STORM DRAIN MANHOLE
	SANITARY MANHOLE
	WATER VALVE
	UTILITY VAULT
	CORNER FOUND (AS NOTED)

—P—UG—	UNDERGROUND ELECTRIC
—G—	GAS LINE
—SS—	SANITARY SEWER LINE
—SD—	STORM SEWER LINE
—P—OH—	OVERHEAD ELECTRIC
—W—	WATER LINE
—FO—	FIBER OPTIC LINE
—TEL—	TELEPHONE LINE

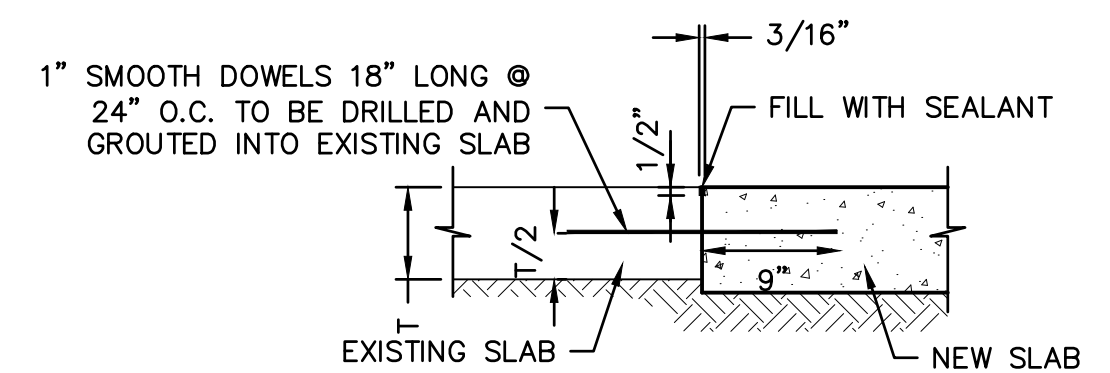
	BUILDING LINE
	GUTTER
	CURB
	PROPERTY LINE
	UTILITY REMOVAL
	PAVEMENT REMOVAL
	STRUCTURE REMOVAL



1. WATER METER PIT SHALL BE REMOVED ENTIRELY. WATER MAIN SHALL BE CAPPED AT ENTRANCE POINT(S). CONTRACTOR TO COORDINATE WITH HASTINGS UTILITIES BEFORE BACKFILLING. EXISTING WATER METER PIT REMOVALS SHALL NOT TAKE PLACE UNTIL NEW METER BUILDING IS IN SERVICE.
2. CONTRACTOR SHALL COORDINATE WITH GAS, TELECOM AND POWER COMPANIES FOR UTILITY CROSSING CONFLICTS. LOWERING OR RE-ROUTING OF EXISTING UTILITY LINES SHALL BE CONSIDERED SUBSIDIARY TO REMOVALS.
3. REPLACEMENT PAVEMENT SHALL MATCH EXISTING PAVEMENT DEPTH. CONTRACTOR TO REMOVE PAVEMENT AT EXISTING JOINTS WHERE APPLICABLE. SAWCUTTING PAVEMENT FOR REMOVAL SHALL BE CONSIDERED SUBSIDIARY TO PAVEMENT REMOVAL.
4. THE CONTRACTOR SHALL ACCURATELY RECORD ACTUAL LOCATIONS OF CAPPED UTILITIES AND SUBSURFACE OBSTRUCTIONS THAT WILL REMAIN AFTER DEMOLITION.
5. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OR REMOVAL OF STRUCTURES, FOUNDATIONS, ETC., USING APPROVED SELECT FILL MATERIALS. FILL MATERIALS SHALL BE FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS, AND OTHER ORGANIC MATTER.
6. REMOVE ALL STUMPS, BUSHES, TREES, WEEDS AND OTHER SURFACE OBSTRUCTIONS THAT ARE WITHIN THE REMOVAL AREA.
7. ALL ITEMS INDICATED ON THE DEMOLITION PLAN SHALL BE DEMOLISHED AND DISPOSED OF OFF-SITE.
8. CONTRACTOR SHALL PROTECT AND MAINTAIN ITEMS WHICH ARE INDICATED TO REMAIN.
9. REMOVE & DISCONNECT ALL UTILITIES DURING DEMOLITION OPERATIONS AS NEEDED. (GAS, CABLE, & ELECTRICAL) CONTRACTOR TO COORDINATE WORK WITH LOCAL UTILITIES.
10. REMOVE ALL PIPING AND UTILITY SERVICE LINES BENEATH FLOOR SLABS NEAR EXISTING BUILDINGS AND WITHIN PAVEMENT REMOVAL AREAS UNLESS OTHERWISE NOTED TO BE PROTECTED INCLUDING SEWER CLEANOUTS, STORM DRAINS, AND ETC.
11. PROTECT UTILITIES THAT ARE NOT BEING CALLED OUT TO BE REMOVED. (POWER POLES, ELECTRICAL SUBSTATION, FIRE HYDRANTS, STORM SEWER INLETS, STORM SEWER MANHOLES, ETC.)
12. THE CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS PERTAINING TO DISPOSAL OF ALL CONSTRUCTION RELATED MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED DEMOLITION PERMITS AND DISPOSAL FEES.
13. CONCRETE PAVEMENT FOR REPLACEMENT SHALL BE NEBRASKA DEPARTMENT OF TRANSPORTATION 47B-3500. ALL CEMENT SHALL BE 1P, 1S OR 1T. SEE PAVEMENT DETAIL FOR CONCRETE TIE-IN TO EXISTING ASPHALT OVERLAY ON 5TH AVENUE.

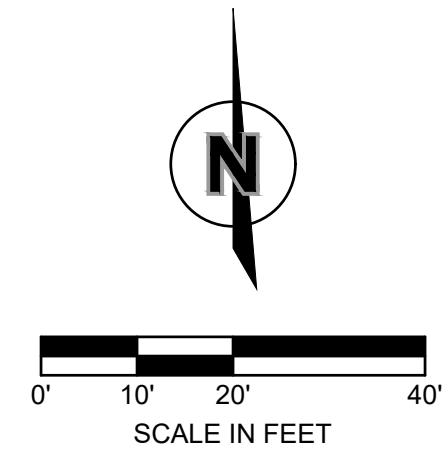
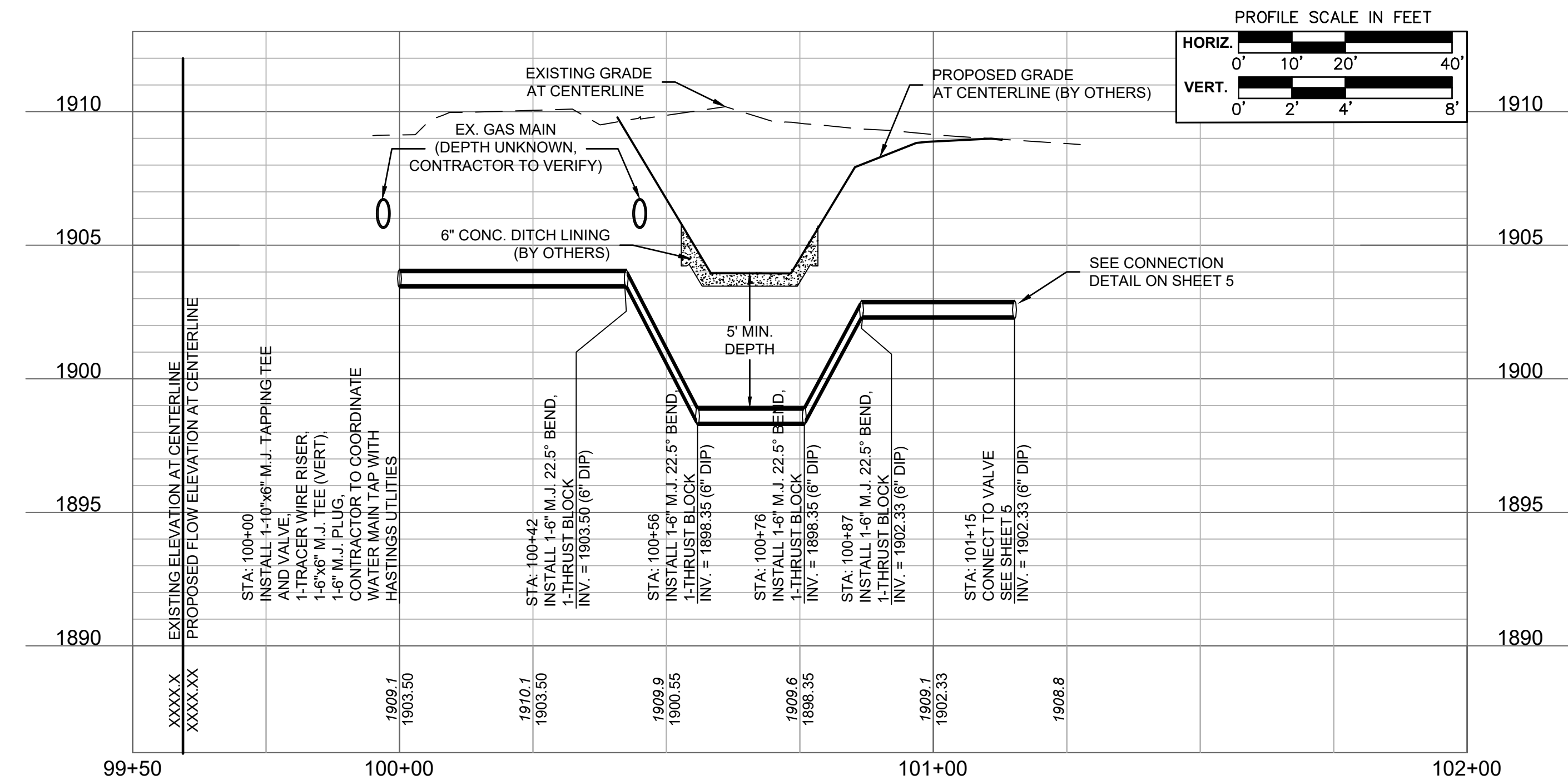
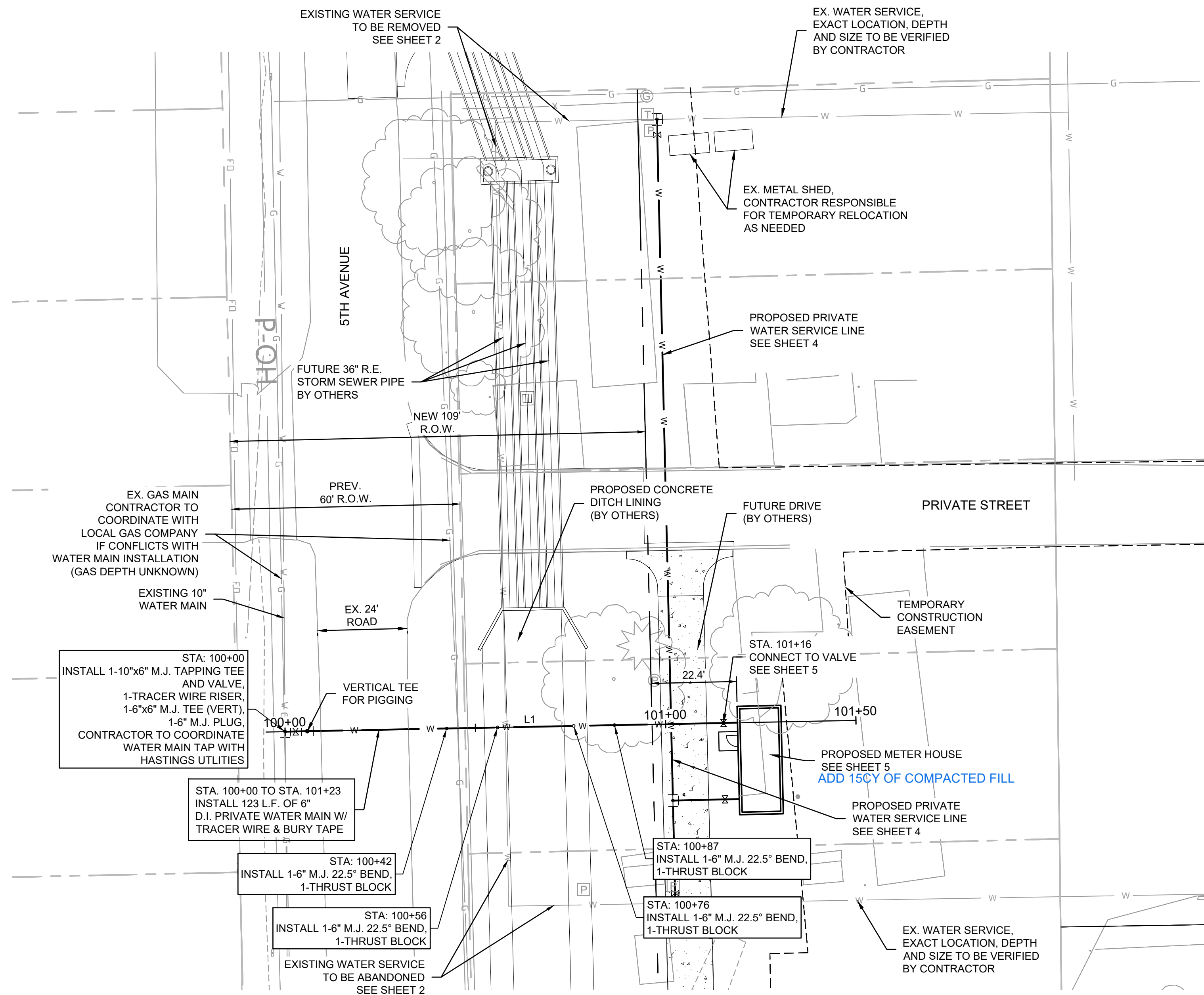


CONCRETE/ASPHALT TIE IN
NOT TO SCALE



NEW PAVEMENT TO EXISTING
PAVEMENT CONNECTION
NOT TO SCALE

201 East 2nd Street Grand Island, NE 68801					
Olsson.com TEL 308.384.8750 FAX 308.384.8752 Olsson - Engineering Nebraska COA #CA-0638					
	BY				
REV. NO.	DATE				
SITE REMOVALS					
WATER METER HOUSE EAST GATE PLAZA					
HASTINGS, NE	2026			REVISIONS	
drawn by: _____ AST designed by: _____ AST project no.: _____ 025-04734 date: _____ FEBRUARY, 2026					
SHEET 2 of 12					



WATER ALIGNMENT					
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING
L1	99+95.00 101+50.00	276808.9564 276812.0124	2095088.1906 2095243.1611	155.00'	N88°52'13"E

201 East 2nd Street
Grand Island, NE 68801

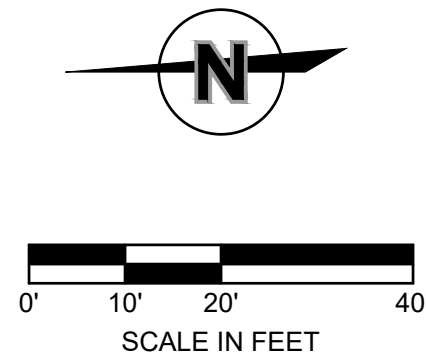
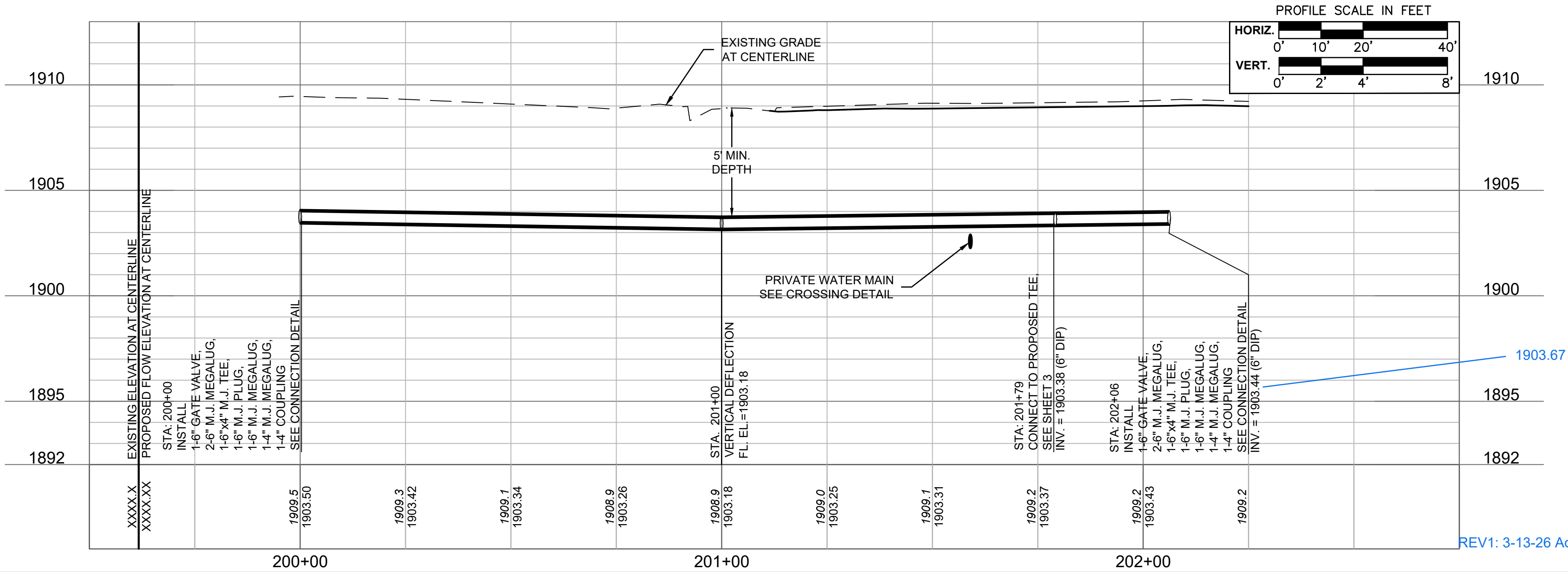
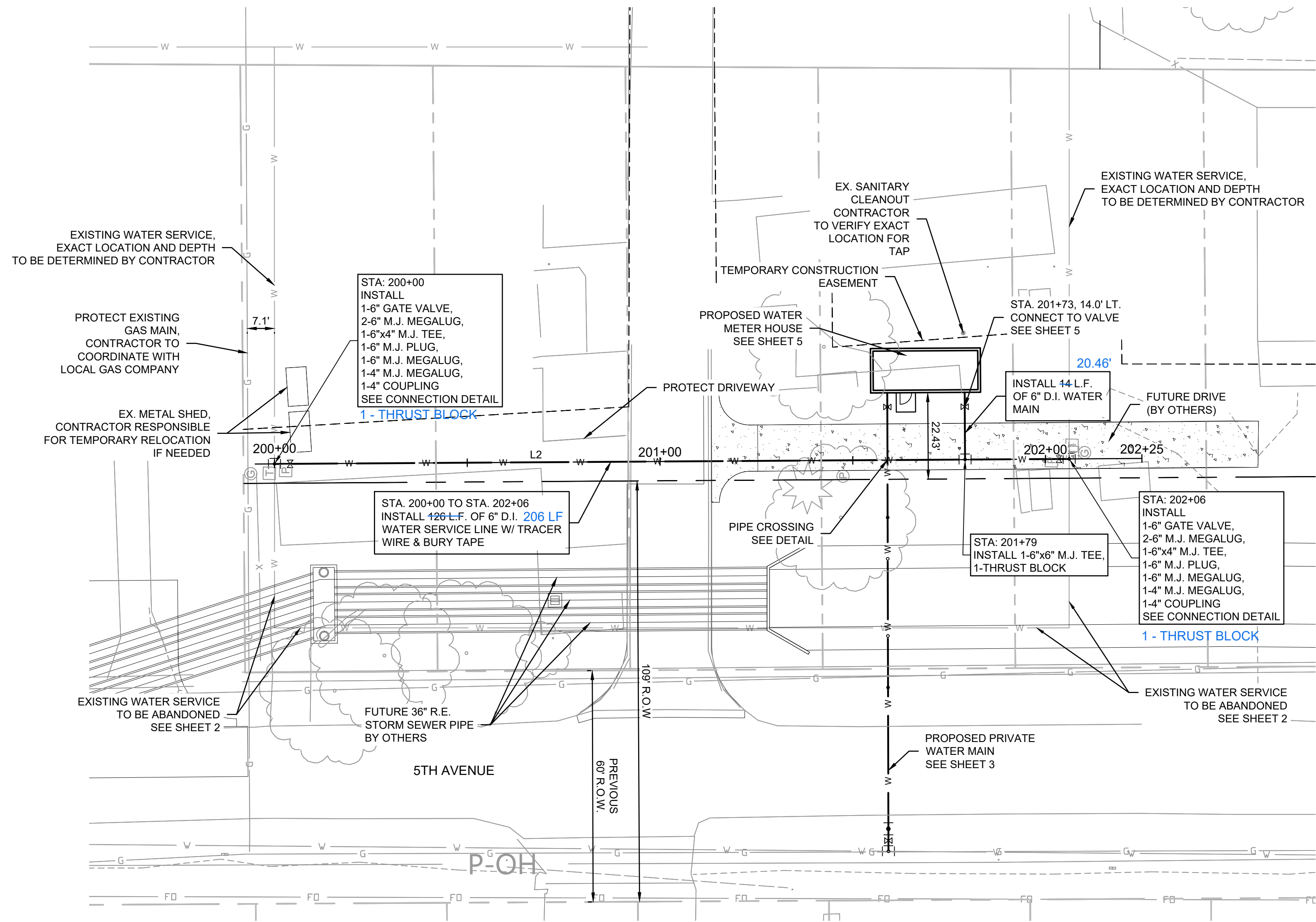
olsson.com
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FAX 308.384.8752
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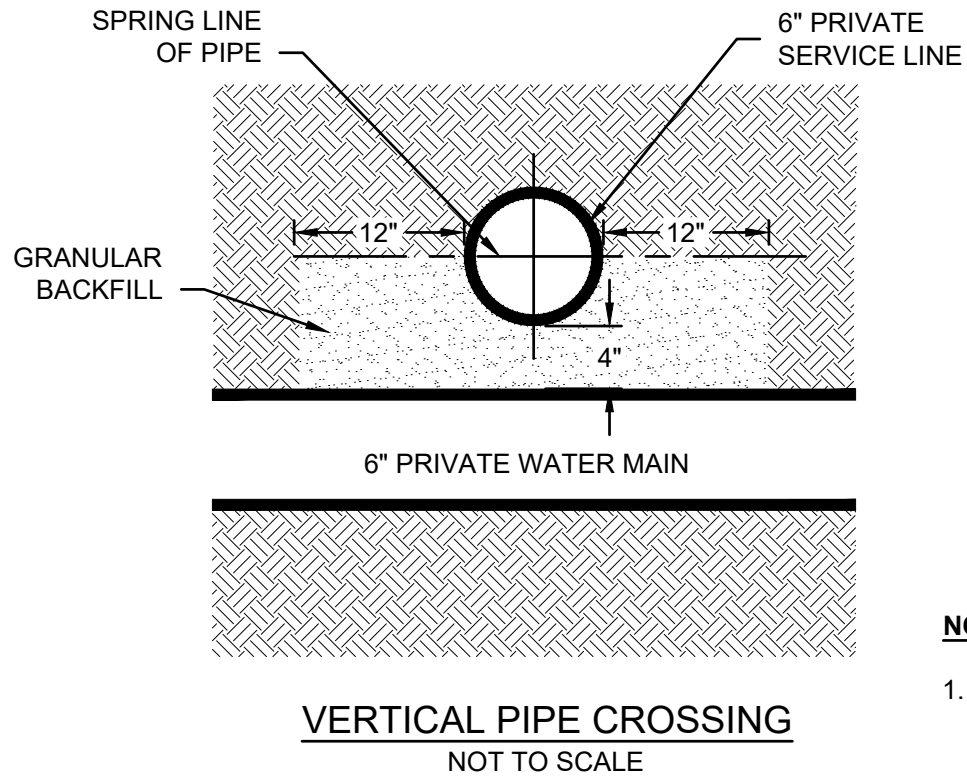
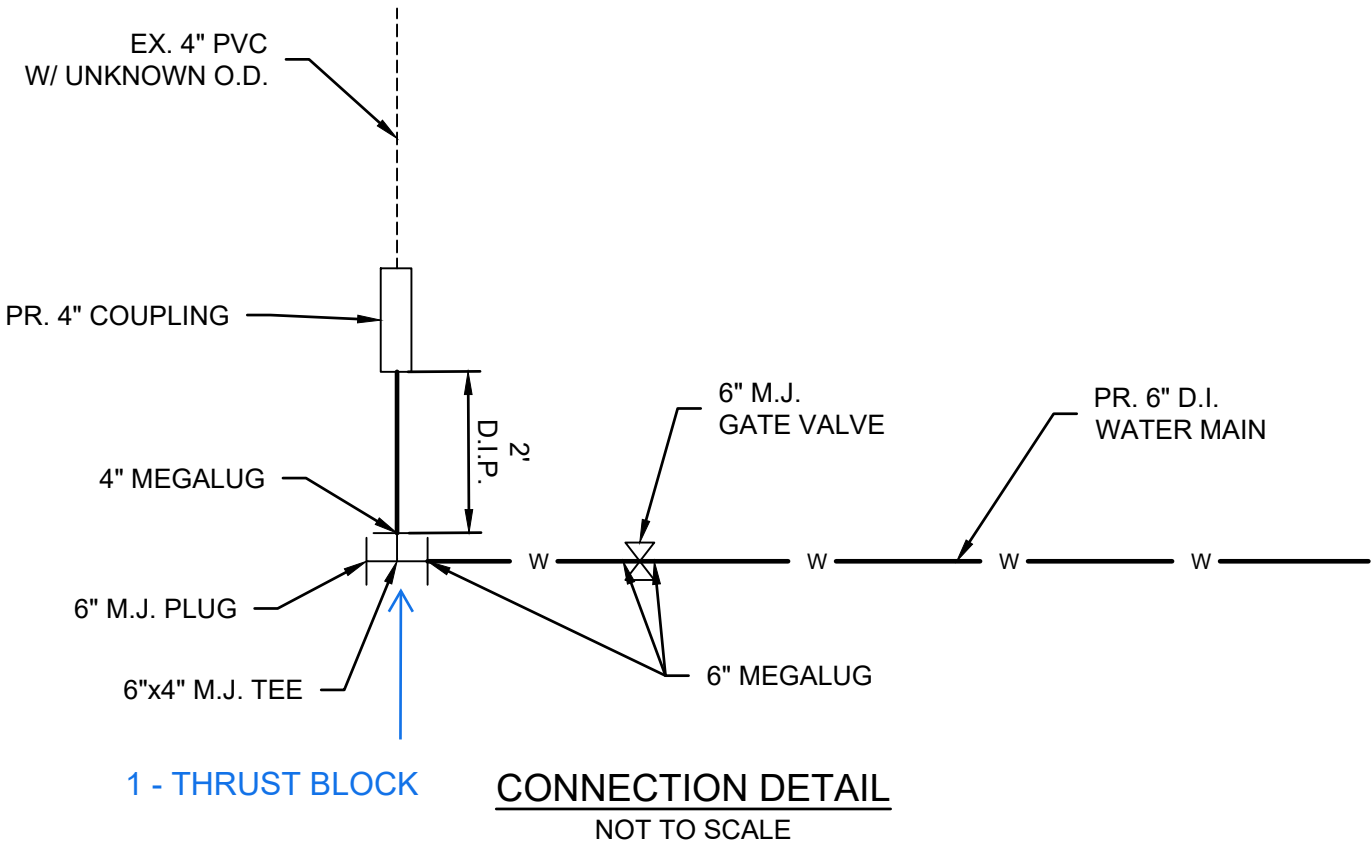
STA. 100+00 TO STA. 101+25 WATER SERVICE PLAN	2006
WATER METER HOUSE EAST GATE PLAZA	2006

drawn by: _____ AS
designed by: _____ AS
project no.: _____ 025-0473
date: _____ FEBRUARY, 2021

F:\2025\04501-05000\025-04734\40-Design\AutoCAD\Final Plans\Sheets\SDNC_CON\01_02504734.dwg
DATE: Feb 19, 2026 12:51pm USER: alarango



WATER ALIGNMENT					
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING
L1	99+95.00 101+50.00	276808.9564 276812.0124	2095088.1906 2095243.1611	155.00'	N88°52'13\"E



NOTES:

1. GRANULAR BACKFILL SHALL BE CONSIDERED SUBSIDIARY TO PIPE INSTALLATION. NATIVE SAND MAY BE USED AS GRANULAR BACKFILL.
2. CONTRACTOR SHALL CENTER FULL LENGH OF PIPES TO PLACE JOINTS AWAY FROM CROSSING.

201 East 2nd Street
Grand Island, NE 68801

olsson.com
TEL 308.384.8750
FAX 308.384.8752
Olsson - Engineering
Nebraska COA #CA-0638

BY

DESCRIPTION

DATE

REV. NO.

2026

STA. 200+00 TO STA. 202+15
WATER SERVICE PLAN

WATER METER HOUSE
EAST GATE PLAZA

HASTINGS, NE

drawn by: _____ AST
designed by: _____ AST
project no.: 025-04734
date: FEBRUARY, 2026

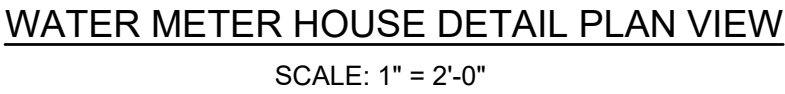
SHEET
4 of 12

REV1: 3-13-26 Addendum 2 by Keith Miller in BLUE. Edits: Buried Piping, Above Ground Piping, Finished Floor EL.

SPOOL TABLE	
LENGTH	QUANTITY
1.05", FLANGED	1
1.92", FLANGED	2
5', FLANGED X SPIGOT	1
5.96", MJ X MJ	1
6.46", MJ X MJ	1
7.87", FLANGED	1
7.02", FLANGED X SPIGOT	1
8.66", FLANGED BY SPIGOT	1

5.52'

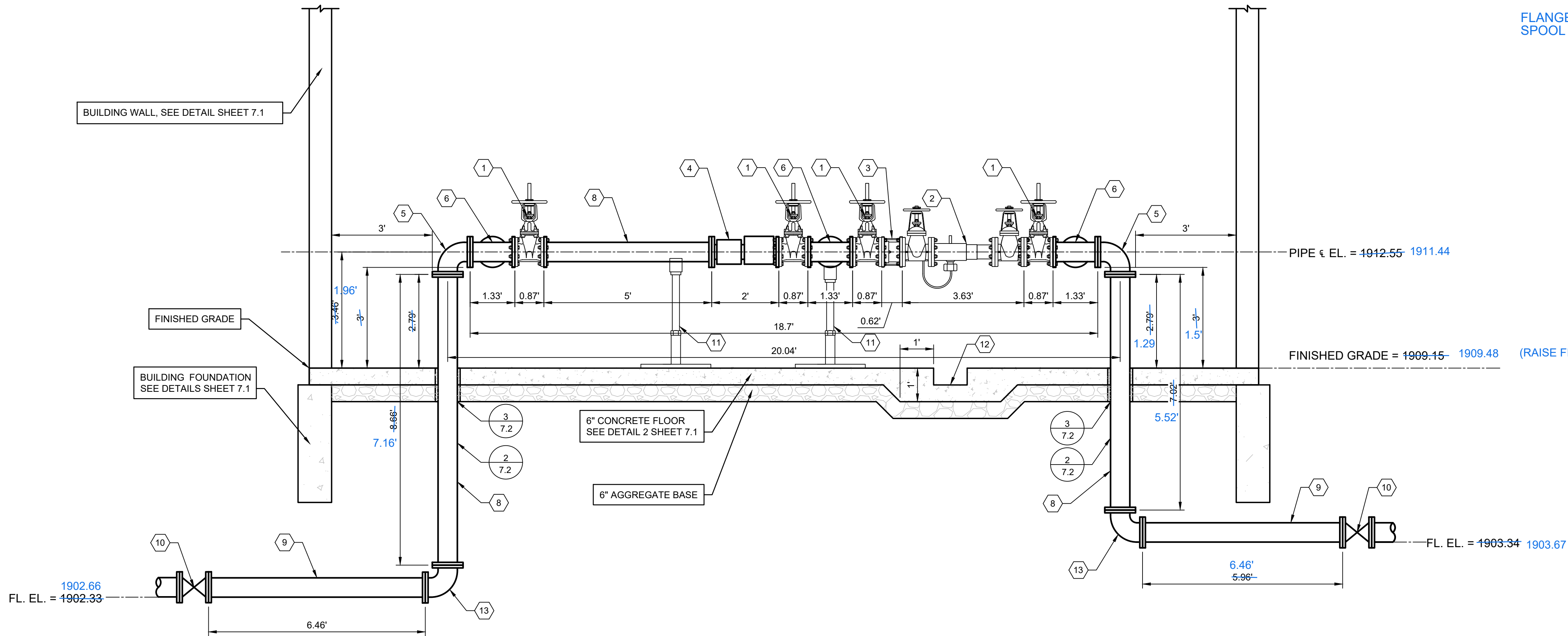
7.16'



WATER METER HOUSE PLAN	
WATER METER HOUSE EAST GATE PLAZA	
HASTINGS, NE	2026

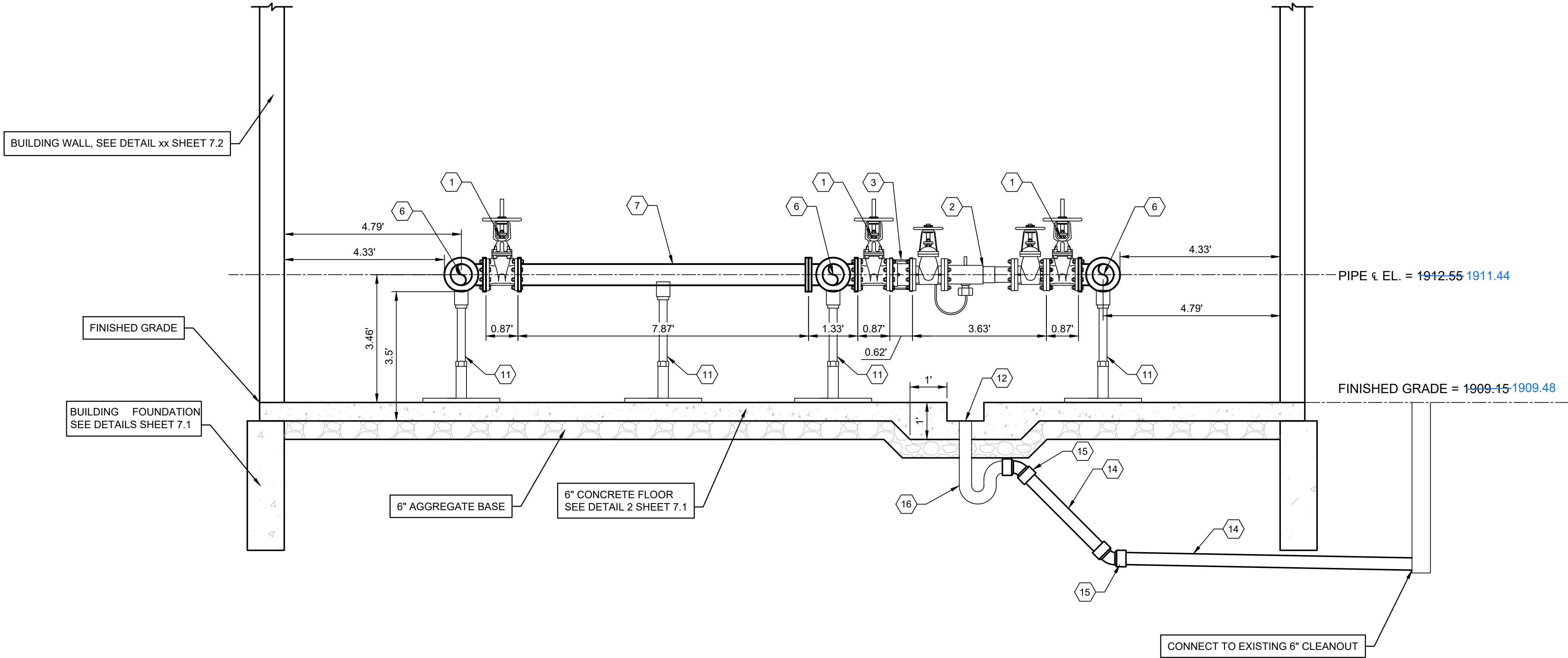
SHEET
5 of 12

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DATE: Feb 19, 2026 12:51pm USER: atarango



WATER METER HOUSE SECTION A
SCALE: 1" = 2'-0"

REV1: 3-13-26 Addendum 2 by Keith Miller in BLUE. Edits: Buried Piping, Above Ground Piping, Finished Floor El.



WATER METER HOUSE SECTION B
SCALE: 1" = 2'-0"

EQUIPMENT TABLE		
TAG #	DESCRIPTION	QTY
1	6" WATTS SERIES 405 NON-RISING STEM, RESILIENT WEDGE FLANGED GATE VALVE OR APPROVED EQUAL	8
2	6" WATTS SERIES 957-NRS REDUCED PRESSURE VALVE ASSEMBLY OR APPROVED EQUAL	2
3	6" ROMAC DJ400 DISMANTLING JOINT OR APPROVED EQUAL	2
4	6" RECORDALL BADGER COMPOUND METER (SUPPLIED BY COH)	1
5	6" 90° D.I. BEND, FLANGED	4
6	6"X6" D.I. TEE, FLANGED	4
7	6" D.I. SPOOL, FLANGED	4
8	6" D.I. SPOOL, FLANGED X SPIGOT WITH FLANGE ADAPTER (EBAA 1000 E-Z FLANGE OR APPROVED EQUAL)	3
9	6" D.I. SPOOL; MJ	2
10	6" GATE VALVE, MJ X MJ WITH 2 MEGA LUGS	2
11	PIPE SUPPORT, SEE DETAIL 6 SHEET	6
12	12" TRENCH WITH 4" FLOOR DRAIN AT BOTTOM OF SUMP	1
13	6" 90° D.I. BEND, MJ X MJ WITH 2 MEGA LUGS	2
14	4" SDR 35 DRAIN PIPE	30
15	4" SDR 35 45° BEND	2
16	4" SDR 35 TRAP	2

SPOOL TABLE	
LENGTH	QUANTITY
1.05', FLANGED	1
1.92', FLANGED	2
5', FLANGED X SPIGOT	1
6.96', MJ X MJ	1
6.46', MJ X MJ	1
7.87', FLANGED	1
7.02', FLANGED X SPIGOT	1
8.66', FLANGED BY SPIGOT	1

Total Spool Length = 30.44 ft

FLANGE ADAPTORS ARE ACCEPTED AS SPOOL FLANGES.

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PROFESSIONAL CIVIL ENGINEER

ADRIAN S. TARANGO

E-21634

02/19/2026

STATE OF NEBRASKA

BY

DESCRIPTION

DATE

REV. NO.

WATER METER HOUSE SECTIONS

WATER METER HOUSE
EAST GATE PLAZA

HASTINGS, NE

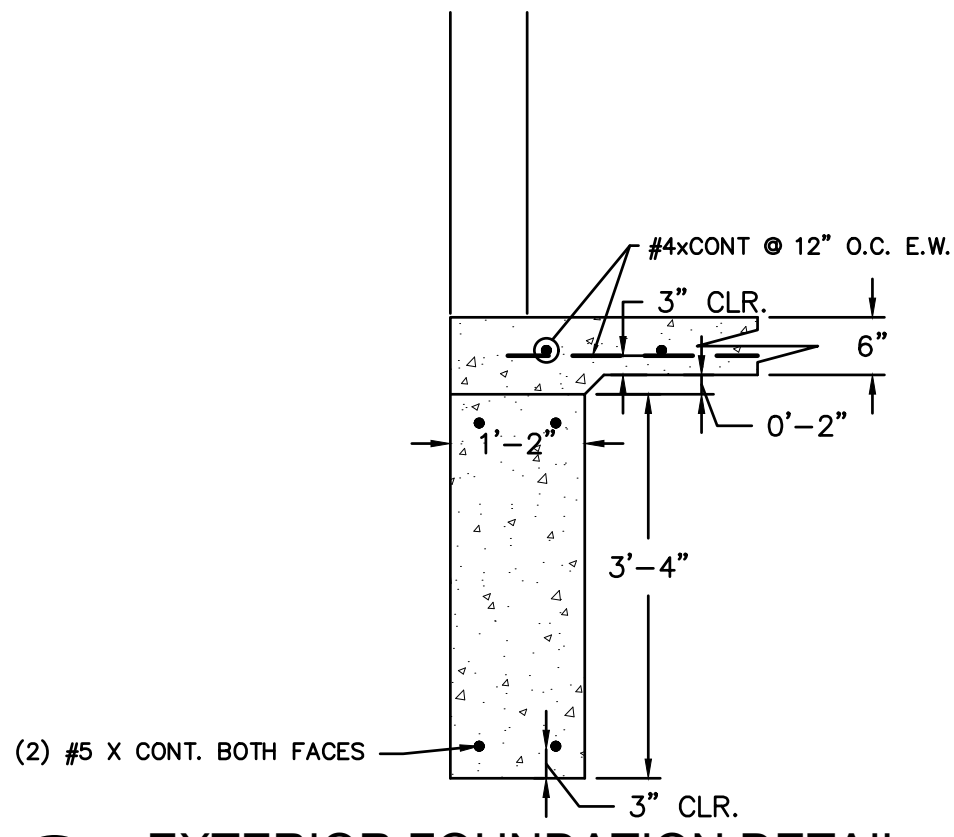
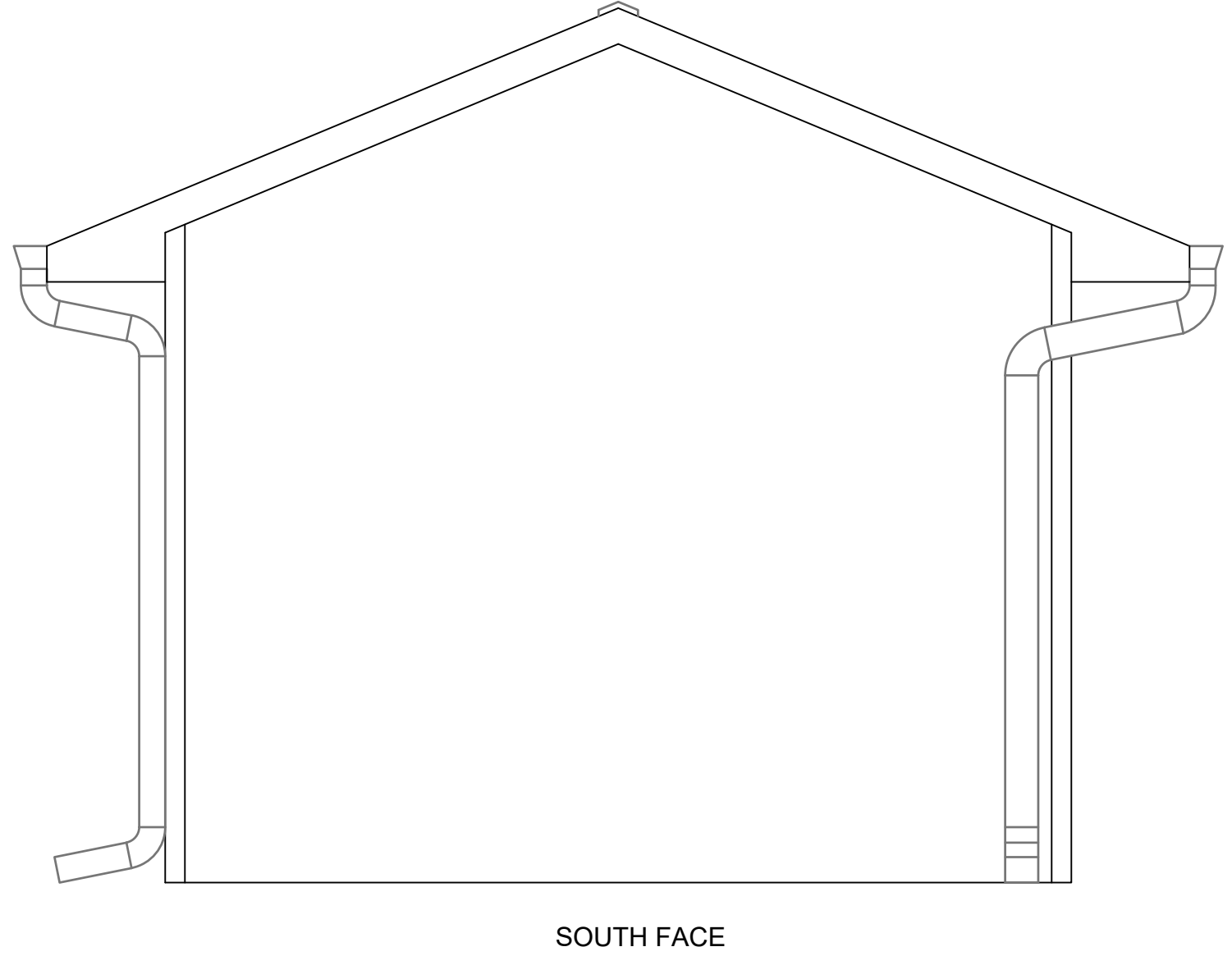
2026

drawn by: _____ AST
designed by: _____ AST
project no.: 025-04734
date: FEBRUARY, 2026

SHEET

6 of 12

1. **ELECTRIC UNIT HEATER:** CONTRACTOR SHALL PROVIDE AN ELECTRIC UNIT HEATER TO MAINTAIN A MINIMUM INTERIOR TEMPERATURE OF 40°F WITHIN THE WATER METER BUILDING. HEATER SHALL BE INSTALLED ON A MAXIMUM 30-AMP BRANCH CIRCUIT. PROVIDE INTEGRAL OR REMOTE THERMOSTAT CONTROL AND A FACTORY-PROVIDED HIGH-TEMPERATURE SAFETY SHUTOFF. HEATING SYSTEM SHALL PROVIDE FREEZE PROTECTION FOR THE WATER METER, PIPING RISERS, VALVES, AND ASSOCIATED APPURTEANCES. ELECTRICAL POWER AND CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL REQUIREMENTS.
2. **EXHAUST FAN:** CONTRACTOR SHALL PROVIDE A MECHANICAL EXHAUST VENTILATION SYSTEM FOR MOISTURE CONTROL AND GENERAL VENTILATION AT A MINIMUM RATE OF 300 CFM. PROVIDE A MECHANICALLY OPERABLE EXTERIOR MAKE-UP AIR LOUVER SIZED TO ACCOMMODATE THE REQUIRED EXHAUST AIRFLOW WITHOUT EXCESSIVE PRESSURE DROP. THE LOUVER SHALL BE EQUIPPED WITH A MANUAL OPERATOR CRANK TO ALLOW THE OPENING TO BE CLOSED DURING WINTER CONDITIONS AND TO PREVENT WIND-INDUCED OPENING WHEN IN THE CLOSED POSITION.
THE MAKE-UP AIR OPENING SHALL INCLUDE AN INTEGRAL INSECT/BIRD SCREEN AT THE LOUVER, AND A SEPARATE HEAT-RESISTANT EXTERIOR VENT SCREEN INSTALLED AT THE BUILDING EXTERIOR. ALL OPENINGS EXPOSED TO THE EXTERIOR SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIALS SUITABLE FOR OUTDOOR EXPOSURE.
THE EXHAUST SYSTEM SHALL INCLUDE A BACKDRAFT DAMPER AND A WEATHERPROOF EXTERIOR WALL OR ROOF TERMINATION. ELECTRICAL POWER AND CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES AND REQUIREMENTS.



SCALE: NOT TO SCALE

3 SCALE: NOT TO SCALE

SCALE: 1" = 2'

1. ROOF SHALL BE EITHER STANDING SEAM METAL ROOFING WITH CONTINUOUS RIDGE VENT OR ARCHITECTURAL ASPHALT SHINGLES WITH CONTINUOUS RIDGE VENT. ROOFING SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. INCLUDE REQUIRED UNDERLAYMENT AND FLASHING, AND PROVIDE A WATERTIGHT, DURABLE ASSEMBLY SUITABLE FOR LOCAL WEATHER CONDITIONS.
2. CONTRACTOR SHALL INSTALL METAL SOFFIT AND FASCIA SYSTEM CONSISTING OF EITHER PREFINISHED STEEL OR ALUMINUM. SOFFIT AND FASCIA SHALL BE COMPATIBLE MATERIALS. SYSTEM SHALL PROVIDE A DURABLE, LOW-MAINTENANCE, WEATHER-RESISTANT ROOF EDGE ASSEMBLY AND SHALL UTILIZE VENTED SOFFIT PANELS, AS REQUIRED, TO PROVIDE MINIMUM NECESSARY VENTILATION FOR THE ROOF/CEILING ASSEMBLY.
3. CONTRACTOR SHALL INSTALL EXTERIOR INSULATED METAL DOOR AND FRAME ASSEMBLY, FULLY OPAQUE WITH NO GLAZING. DOOR SHALL BE STEEL OR ALUMINUM, WEATHER-TIGHT AND SUITABLE FOR EXTERIOR EXPOSURE. NO STRUCTURAL STOOP REQUIRED. CONTRACTOR SHALL DROP GRADE AT DOOR WHILE ENSURING DRAINAGE AWAY FROM BUILDING.
4. CONTRACTOR SHALL INSTALL PREFINISHED ALUMINUM GUTTER AND DOWNSPOUT SYSTEM. GUTTER SHALL BE MINIMUM 5-INCH ALUMINUM WITH CORROSION-RESISTANT FINISH AND CONCEALED HANGERS ATTACHED TO METAL FASCIA. PROVIDE ALUMINUM DOWNSPOUTS SIZED TO SUIT ROOF AREA AND DISCHARGE WATER AWAY FROM BUILDING FOUNDATION. INSTALL SYSTEM WATERTIGHT.

5. CONTRACTOR SHALL INSTALL EXTERIOR WALL SIDING SYSTEM CONSISTING OF VINYL, STEEL, ENGINEERED WOOD, OR FIBER CEMENT SIDING. INSTALL OVER CONTINUOUS WEATHER-RESISTIVE BARRIER WITH REQUIRED FLASHING, TRIM AND CLEARANCES. SIDING SHALL PROVIDE A DURABLE, WEATHER EXTERIOR WALL ASSEMBLY.

6. CONTRACTOR SHALL INSTALL A WALL-MOUNTED FLOOD RELIEF FLAPPER GATE, 16"x16". GATE SHALL CONSIST OF AN ALUMINUM FRAME WITH EPDM RUBBER FLAP AND STAINLESS STEEL HARDWARE, SUITABLE FOR EXTERIOR WALL INSTALLATION AND BACKFLOW PREVENTION. GATE SHALL OPEN OUTWARD UNDER INTERNAL WATER PRESSURE. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. CONTRACTOR SHALL INSTALL EXTERIOR WALL INSULATION CONSISTING OF FIBERGLASS BATT INSULATION WITH A MINIMUM R-VALUE RESISTANCE OF R-20 FOR THE WATER METER BUILDING. INSULATION SHALL BE INSTALLED WITHIN WALL CAVITY TIGHTLY FITTED, AND FREE OF GAPS, VOIDS, OR COMPRESS WALL INSULATION SHALL BE COORDINATED WITH THE CONTROL VAPOR AND VAPOR CONTROL LAYERS TO MAINTAIN UNINTERRUPTED THERMAL AIR, AND MOISTURE CONTROL. INSTALLATION SHALL COMPLY WITH APPLICABLE ENERGY CODE REQUIREMENTS / MANUFACTURER'S RECOMMENDATIONS AND SHALL BE SUITABLE FOR HIGH HUMIDITY SERVICE CONDITIONS

8. CONTRACTOR SHALL INSTALL INSULATION AT THE ROOF/CEILING ASSEMBLY WITH A MINIMUM THERMAL RESISTANCE OF R-49. INSULATION SHALL CONSIST OF FIBERGLASS BATT INSULATION OR FIBERGLASS LOOSE-FILL (BLOWN-IN) INSULATION AND SHALL BE INSTALLED TO PROVIDE CONTINUOUS THERMAL COVERAGE, SECURELY SUPPORTED, AND FREE OF GAPS, VOIDS, OR COMPRESSION. THE ROOF/CEILING ASSEMBLY SHALL INCLUDE CONTINUOUS AIR AND VAPOR CONTROL AS REQUIRED, COORDINATED WITH THE AIR/VAPOR CONTROL LAYERS TO MAINTAIN CONTINUITY OF THE BUILDING THERMAL ENVELOPE. INSTALLATION SHALL COMPLY WITH APPLICABLE ENERGY CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS

9. CONTRACTOR SHALL INSTALL FIBERGLASS-REINFORCED PLASTIC (FRP) INTERIOR WALL AND CEILING PANELS, MINIMUM 0.090 IN. THICK, CLASS A FIRE RATED, MOISTURE AND CHEMICAL-RESISTANT, INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OVER CONTINUOUS, SMOOTH PLYWOOD SHEATHING ONLY. INSTALLATION OVER GYPSUM BOARD, CEMENT BOARD, INSULATION, OR ANY OTHER SUBSTRATE IS NOT PERMITTED. PROVIDE REQUIRED TRIMS AND SEALED JOINTS. SYSTEM SHALL BE SUITABLE FOR HIGH-HUMIDITY WATER METER BUILDING ENVIRONMENTS

- ALL COLORS SHALL BE APPROVED BY OWNER.



Diagram illustrating the proposed traffic control measures for a road construction project on South Street, showing the layout of signs, barricades, and lane markings.

Key Features and Labels:

- Signs:**
 - W20-1 (Road Work Ahead)
 - W20-4 (One Lane Road Ahead)
 - R1-2 (Yield)
 - R1-2aP (To Oncoming Traffic)
 - Yield Sign (Top Right)
 - Yield Sign (Bottom Right)
 - W20-4 (One Lane Road Ahead)
 - W20-1 (Road Work Ahead)
- Barriers:**
 - TYPE 3 BARRICADE (TYP.)
 - TYPE 3 BARRICADE (TYP.)
- Infrastructure:**
 - EXISTING WATER MAIN
 - PROPOSED WATER MAIN
 - TUBULAR MARKER OR CONE (TYP.)
- Dimensions and Markings:**
 - 10' MIN. LANE WIDTH
 - 100' (Distance markers)
- Street Layout:**
 - SOUTH STREET (Top)
 - 5TH AVENUE (Vertical Road)
 - C STREET (Bottom)

SOUTH STREET

5TH AVENUE

ROAD WORK AHEAD

W20-1

ONE LANE ROAD AHEAD

W20-4

YIELD

R1-2

TO ONCOMING TRAFFIC

R1-2aP

10' MIN. LANE WIDTH

TUBULAR MARKER OR CONE (TYP.)

PROPOSED WATER MAIN

YIELD

R1-2

TO ONCOMING TRAFFIC

R1-2aP

ONE LANE ROAD AHEAD

W20-4

ROAD WORK AHEAD

W20-1

100'

100'

100'

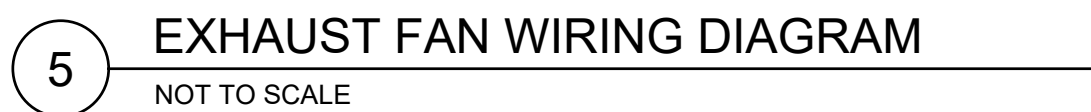
C STREET

C STREET

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SHEET
of 12

ID	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS	LOAD	VOLTAGE	MOUNTING	COMMENTS
A	4" ENCLOSED CORROSION RESISTANT, LED, FIBERGLASS HOUSING, HIGH IMPACT FROSTED ACRYLIC DIFFUSER, STAINLESS STEEL LATCHES	WILLIAMS	96-4-L62-840-HIAFR-DRV-120	62,00 LUMENS, 4000K LED	48	120	SURFACE	
B	WALL PACK, DIE-CAST ALUMINUM, BRONZE FINISH WITH PHOTOCELL	LUMARK	XTOR2B-W-PC1	2100 LUMENS, 4000K LED	18	120	WALL	
X1	LED EXIT & EMERGENCY LIGHT, WHITE WITH RED LETTERS, ADJUSTABLE HEADS, SELF-DIAGNOSTICS	WILLIAMS	EXIT/EM/LED-SF-R-WHT-SDT	LED	4	120	WALL MOUNT +7'-9" A.F.F.	



- ONE-LINE NOTES: (SYMBOLS 1, 2, ETC.)

- 7 ONE-LINE DIAGRAM
NOT TO SCALE

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZE							**
PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE *	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE *	
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"	
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"	
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"	
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"	
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"	
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"	
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"	
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"	
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"	
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"	
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"	
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"	
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"	

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.

** = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

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DIVISION 26 - ELECTRICAL SPECIFICATIONS

SECTION 260100 - GENERAL PROVISIONS

GENERAL REQUIREMENTS

ALL REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. EACH CONTRACTOR SHALL BE RESPONSIBLE TO BECOME THOROUGHLY FAMILIAR WITH ALL ITS CONTENTS AS TO REQUIREMENTS WHICH AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS, OR REASONABLY INFERRED TO BE NECESSARY TO FACILITATE EACH SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED.

INSPECTION OF SITE

THE CONTRACTOR SHALL PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

MATERIAL AND WORKMANSHIP

ALL MATERIAL AND APPARATUS SHALL BE NEW AND IN FIRST CLASS CONDITION. ALL MATERIAL AND APPARATUS SHALL HAVE MARKINGS OR A NAMEPLATE IDENTIFYING THE MANUFACTURER AND PROVIDING SUFFICIENT REFERENCE TO ESTABLISH QUALITY, SIZE AND CAPACITY. ALL WORKMANSHIP SHALL BE OF THE FINEST POSSIBLE BY EXPERIENCED MECHANICS OF THE PROPER TRADE. IN GENERAL, ALL MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTABLE. ALL HOISTS, SCAFFOLDS, STAGING, RUNWAYS, TOOLS, MACHINERY AND EQUIPMENT REQUIRED FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE FURNISHED BY THIS CONTRACTOR. MATERIAL AND EQUIPMENT SHALL BE STORED AND MAINTAINED IN CLEAN CONDITION, AND PROTECTED FROM WEATHER, MOISTURE, AND PHYSICAL DAMAGE. ALL ELECTRICAL MATERIALS USED IN THIS WORK SHALL BE APPROVED BY THE UNDERWRITERS LABORATORIES AND SHALL BEAR THEIR LABEL OF APPROVAL.

COORDINATION

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS SO THAT VARIOUS COMPONENTS OF THE ELECTRICAL SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE AND WILL ALLOW PROPER SERVICE ACCESS TO ALL EQUIPMENT. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND TO RELEVANT EQUIPMENT DRAWINGS TO DETERMINE THE EXTENT OF CLEAR SPACES. THE CONTRACTOR SHALL MAKE ALL OFFSETS REQUIRED TO CLEAR EQUIPMENT, BEAMS AND OTHER STRUCTURAL MEMBERS, AND TO FACILITATE CONCEALING CONDUIT IN THE MANNER ANTICIPATED IN THE DESIGN. THE CONTRACTOR SHALL PROVIDE MATERIALS WITH TRIM WHICH WILL FIT PROPERLY THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED.

SUBMITTALS

SUBMIT ONE ELECTRONIC VERSION OF SHOP DRAWINGS AND PRODUCT DATA ON ALL ELECTRICAL EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR.

TITLE EACH DRAWING WITH PROJECT NAME AND NUMBER. IDENTIFY EACH ELEMENT OF DRAWINGS BY REFERENCE TO SHEET NUMBER AND DETAIL, SCHEDULE OR ROOM NUMBER OF CONTRACT DOCUMENTS.

SEQUENTIALLY NUMBER SUBMITTALS ACCORDING THEIR SPECIFICATION SECTION NUMBER. REVISED SUBMITTALS SHOULD INCLUDE ORIGINAL NUMBER AND A SEQUENTIAL ALPHABETIC SUFFIX.

CONTRACTOR AND SUPPLIER SHALL REVIEW AND STAMP AND SIGN SUBMITTALS PRIOR TO TRANSMITTAL. DETERMINE AND VERIFY FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MANUFACTURERS CATALOG NUMBERS AND CONFORMANCE OF SUBMITTAL WITH REQUIREMENTS OF CONTRACT DOCUMENTS. IDENTIFY IN WRITING AT TIME OF SUBMITTAL OF ANY DEVIATIONS FROM REQUIREMENTS OF CONTRACT DOCUMENTS.

MARK DIMENSIONS AND VALUES IN UNITS TO MATCH THOSE SPECIFIED.

MARK ANY FEATURES/OPTIONS BEING PROVIDED. DELETE OR PUT A LINE THROUGH FEATURES/OPTIONS THAT ARE NOT BEING PROVIDED.

DO NOT FABRICATE OR ORDER PRODUCTS OR BEGIN WORK THAT REQUIRES SUBMITTALS UNTIL APPROVAL OF SUBMITTAL.

APPROVAL OF EQUIPMENT DOES NOT CONSTRUE APPROVAL OF EQUIPMENT, COMPONENTS, ETC. THAT NO INFORMATION IS FURNISHED TO SHOW COMPLIANCE WITH CONTRACT DOCUMENTS.

CONTRACTOR SHALL PAY A SHOP DRAWING REVIEW FEE OF \$100.00, TO THE ENGINEER, FOR EACH SHOP DRAWING REVIEW AFTER TWO REVIEWS THAT ARE MARKED "RETURNED FOR CORRECTIONS" BY THE ENGINEER.

SUBSTITUTIONS

THE ENGINEER SHALL BE THE SOLE AND FINAL JUDGE AS TO THE SUITABILITY OF ITEMS SUBSTITUTED FOR THOSE SPECIFIED. REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED NO LATER THAN TEN (10) DAYS PRIOR TO THE DAY OF BID OPENING. IF PRIOR APPROVAL IS NOT GRANTED, EQUIPMENT SHALL BE FURNISHED AS SPECIFIED OR AS SHOWN ON THE PLANS.

THE ENTIRE COST OF ALL CHANGES OF ANY TYPE DUE TO SUBSTITUTIONS FOR MATERIALS SPECIFIED SHALL BE BORNE BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER AND SHALL REIMBURSE OTHER TRADES OF ADDITIONAL COST DUE TO SUBSTITUTION.

DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS.

REQUEST CONSTITUTES A REPRESENTATION THAT CONTRACTOR:

- HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS, IN ALL RESPECTS, SPECIFIED PRODUCT.
 - WILL PROVIDE THE SAME WARRANTY FOR SUBSTITUTION AS FOR SPECIFIED PRODUCT.
 - WILL COORDINATE AND POSTER CHANGES THAT MAY BE REQUIRED FOR WORK TO BE COMPLETE IN ALL RESPECTS.
 - WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION THAT MAY SUBSEQUENTLY BECOME APPARENT.
 - WILL REIMBURSE OWNER FOR REVIEW OR REDESIGN SERVICES ASSOCIATED WITH RE-APPROVAL BY AUTHORITIES.
- SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWING OR PRODUCT DATA SUBMITTALS WITHOUT SEPARATE WRITTEN REQUEST, OR WHEN ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF CONTRACT DOCUMENTS.

DIMENSIONS AND LAYOUTS

THE DRAWINGS ARE SCHEMATIC IN NATURE, BUT SHOW THE VARIOUS COMPONENTS OF THE SYSTEMS APPROXIMATELY TO SCALE AND ATTEMPT TO INDICATE HOW THEY ARE TO BE INTEGRATED WITH OTHER PARTS OF THE BUILDING. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. DETERMINE EXACT LOCATIONS BY JOB MEASUREMENTS, BY CHECKING THE REQUIREMENTS OF OTHER TRADES, AND BY REVIEWING ALL CONTRACT DOCUMENTS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS WHICH COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

ORDINANCES AND CODES

CONTRACTOR'S PERFORMANCE, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION CODES, STATE AND LOCAL BUILDING CODES, AND/OR ALL OTHER APPLICABLE CODES AND ORDINANCES. CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTION OF SERVICES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, FEES AND INSPECTIONS REQUIRED FOR THE WORK UNDER THIS CONTRACT UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW. CONTRACTOR SHALL MAINTAIN ALL NECESSARY SIGNAL LIGHTS AND GUARDS FOR THE SAFETY OF THE PUBLIC.

ADJUSTING, ALIGNING AND TESTING

ALL ELECTRICAL EQUIPMENT ON THIS PROJECT FURNISHED UNDER THIS DIVISION AND ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHERS SHALL BE ADJUSTED, ALIGNED AND TESTED FOR PROPER OPERATION BY THE ELECTRICAL CONTRACTOR. COMPLETE WIRING SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS. ALL MOTORS SHALL BE VERIFIED FOR PROPER ROTATION.

THE CONTRACTOR SHALL MAINTAIN ON THE PROJECT PREMISES THE FOLLOWING AT ALL TIMES: A TRUE RMS READING VOLTMETER, A TRUE RMS READING AMMETER, AND A MEGGER INSULATION RESISTANCE TESTER. THE CONTRACTOR SHALL PROVIDE TEST DATA RATINGS AS REQUESTED OR AS REQUIRED.

CUTTING AND PATCHING

THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. CONTRACTOR SHALL OBTAIN PERMISSION OF THE ARCHITECT BEFORE DOING ANY CUTTING. ALL HOLES SHALL BE CUT AS SMALL AS POSSIBLE. CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. ALL PATCHING SHALL BE THOROUGHLY FIRST CLASS AND SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION.

COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH GENERAL CONSTRUCTION. ALL CONDUIT ROUGH-IN SHALL BE CONCEALED EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

GUARANTEE

GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF WRITTEN FINAL ACCEPTANCE. GUARANTEE SHALL INCLUDE MATERIAL TO BE REPLACED AND ALL LABOR REQUIRED.

SECTION 260519 - WIRE

ALL WIRE SHALL HAVE COPPER CONDUCTORS, WITH U.L. LABEL, AND 600 VOLT INSULATION. ALL WIRE SHALL BE RUN IN CONDUIT. SERVICE ENTRANCE CABLE SHALL BE TYPE USE, THWN OR XHHW WITH STRANDED CONDUCTORS. ALL FEEDER AND BRANCH CIRCUIT WIRE #8 AWG AND LARGER SHALL BE TYPE THWN OR XHHW, BOTH WITH STRANDED CONDUCTORS. ALL WIRE #10 AWG AND SMALLER SHALL BE TYPE THWN (WET OR DAMP LOCATIONS, OR IN CONDUIT BELOW GRADE OR SLAB) OR THHN (DRY LOCATIONS ONLY AND ABOVE GRADE), BOTH WITH SOLID CONDUCTORS. ALL BRANCH CIRCUIT WIRING SHALL BE DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS, OR REASONABLY INFERRED TO BE NECESSARY TO FACILITATE EACH SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED.

WIRING INSTALLATION

ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAY AND ENCLOSURES.

SUPPORT ALL WIRE AND CABLES IN VERTICAL INSTALLATIONS AS REQUIRED BY CODE BY INSTALLING CABLE SUPPORTERS OR PLUG-TYPE CONDUIT RISER SUPPORTS.

ALL WIRE AND CABLE IN CONDUIT SHALL BE CONTINUOUS WITHOUT TAPS OR SPLICES. ALL SPLICES OR TAPS SHALL OCCUR IN APPROVED BOXES AND ENCLOSURES AND SHALL BE KEPT TO THE MINIMUM REQUIRED, AND SHALL BE MADE UP WITH APPROVED SOLDERLESS CONNECTORS. ALL SPLICES, TAPS, AND JOINTS SHALL BE INSULATED AS REQUIRED BY CODE.

ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS SHALL BE DESIGNED FOR, PROPERLY SIZED FOR, AND U.L. LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

WHERE WIRE IS INDICATED TO BE INSTALLED, BUT THE CONNECTION IS INDICATED "FUTURE" OR "BY OTHERS", CONTRACTOR SHALL LEAVE A MINIMUM OF 3 FEET OF "PIGTAIL" AT THE BOX, TAPE THE ENDS OF THE CONDUCTORS, AND COVER THE BOX.

CONDUCTORS SHALL HAVE INSULATION OF THE PROPER COLOR TO MATCH NEC COLOR CODE SYSTEM AND IN THE TABLE BELOW. IN LARGER WIRE SIZES WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, THE CONTRACTOR SHALL USE VINYL PLASTIC ELECTRICAL TAPE OF THE APPROPRIATE COLOR AROUND EACH CABLE AT ALL TERMINATION POINTS, JUNCTION AND PULL BOXES.

SYSTEM VOLTAGE, CONDUCTOR TYPE, COLOR:

120/240	
BLACK	PHASE A
BLUE	PHASE C
WHITE	NEUTRAL
GREEN	EQUIPMENT GROUND

ALL TERMINAL BLOCKS AND WIRE TERMINALS FOR CONTROL WIRING SHALL BE PROPERLY NUMBERED FOR IDENTIFICATION WITH VINYL STICK-ON MARKERS OR EQUIVALENT.

ALL RECEPTACLE AND NON-LIGHTING EQUIPMENT BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR INSTALLED IN THE BRANCH CIRCUIT RACEWAY, SIZED IN ACCORDANCE WITH NEC TABLE 250.122.

VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 2%.

SECTION 260526 - GROUNDING

THE ELECTRICAL SERVICE, ALL TRANSFORMERS, CONDUCTORS, CONDUITS, MOTOR FRAMES, AND SIMILAR CONDUCTING SURFACES IN THIS CONTRACT WHICH REQUIRE GROUNDING SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED BY THIS CONTRACTOR IN A THOROUGH AND EFFICIENT MANNER IN CONFORMANCE TO THE NATIONAL ELECTRICAL CODE. ALL CIRCUITS SHALL HAVE SEPARATE GREEN GROUND CONDUCTOR ROUTED WITH PHASE CONDUCTORS.

SECTION 260533 - RACEWAYS

GENERAL REQUIREMENTS

ALL CONDUIT SHALL BE RUN CONCEALED EXCEPT WHERE OTHERWISE NOTED. ALL CONDUIT RUN UNDERGROUND SHALL BE RIGID STEEL OR PVC SCHEDULE 40. ALL CONDUIT EXPOSED TO WEATHER, OR OTHER HAZARDOUS CONDITIONS SHALL BE RIGID STEEL. ALL OTHER CONDUIT MAY BE THIN-WALL EMT WHERE APPROVED BY LOCAL CODE.

FINAL CONNECTION TO EACH MOTOR AND TRANSFORMER, AND TO ANY DEVICE WHICH WOULD OTHERWISE TRANSMIT MOTION, VIBRATION OR NOISE, SHALL BE IN FLEXIBLE METAL CONDUIT. WHERE FLEXIBLE METAL CONDUIT IS EXPOSED TO LIQUIDS, VAPORS OR SUNLIGHT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. ALL FLEXIBLE METAL CONDUIT SHALL BE PROVIDED WITH AN INSULATED GROUND WIRE.

CONDUIT INSTALLATION

ALL WIRING SHALL BE RUN IN CONDUIT. ALL CONDUIT RUNS SHOWN ARE DIAGRAMMATIC, EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.

CONDUIT SHALL BE INSTALLED CONCEALED ABOVE SUSPENDED CEILINGS OR CONCEALED IN WALL OR IN OR BENEATH FLOORS WHEREVER POSSIBLE. RUN PARALLEL TO BUILDING

CONDUIT SHALL BE INSTALLED TO REQUIREMENTS OF STRUCTURE AND TO REQUIREMENTS OF ALL OTHER WORK ON THE PROJECT. CONDUIT SHALL BE INSTALLED TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, AND SIMILAR ITEMS. CONDUIT SET IN FORMS FOR CONCRETE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT INSTALLATION WILL NOT AFFECT THE STRENGTH OF THE STRUCTURE. EXCEPT WHERE APPROVED IN WRITING BY THE ARCHITECT, NO CONDUIT SHALL BE RUN IN A SLAB ON GRADE. CONDUIT SHALL BE LOCATED IN GRANULAR FILL BELOW SLABS-ON-GRADE.

CONDUITS SHALL BE INSTALLED CONTINUOUS BETWEEN CONNECTIONS TO OUTLETS, BOXES AND CABINETS WITH A MINIMUM POSSIBLE NUMBER OF BENDS AND NOT MORE THAN THE EQUIVALENT OF FOUR 90 BENDS BETWEEN CONNECTIONS. BENDS SHALL BE SMOOTH AND EVEN AND SHALL BE MADE WITHOUT FLATTENING CONDUIT OR FLAKING ENAMEL. RADIUS OF BENDS SHALL BE AS LONG AS POSSIBLE AND NEVER SHORTER THAN THE CORRESPONDING TRADE ELBOW. LONG RADIUS ELBOWS SHALL BE USED WHERE NECESSARY.

CONDUITS SHALL BE SECURELY FASTENED IN PLACE WITH APPROVED STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. SINGLE CONDUITS FOR FEEDERS SHALL BE HUNG WITH MALLEABLE SPLIT RING HANGERS WITH ROD AND TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. GROUPS OF HORIZONTAL FEEDER CONDUITS SHALL BE CLAMPED TO UNISTRUT STEEL CHANNELS AND SUSPENDED FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. VERTICAL FEEDER CONDUITS SHALL BE SECURELY CLAMPED TO STRUCTURAL STEEL MEMBERS ATTACHED TO STRUCTURE. CABLE CLAMPS SHALL BE INSTALLED FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. CONDUIT SUPPORTS SHALL BE ADDED WITHIN 12" AT ONE END OF ALL BENDS. CONDUIT SHALL NOT BE SUPPORTED FROM SUSPENDED CEILING COMPONENTS.

CONDUIT ENDS SHALL BE REAMED BEFORE INSTALLATION AND ALL CONDUIT SHALL BE THOROUGHLY CLEANED BEFORE INSTALLATION AND KEPT CLEAN AFTER INSTALLATION. OPENINGS AND BOXES SHALL BE PLUGGED OR COVERED AS REQUIRED TO KEEP CONDUIT CLEAN DURING CONSTRUCTION AND ALL CONDUIT SHALL BE FISHED CLEAR OF OBSTRUCTIONS BEFORE THE PULLING OF WIRES. ALL CONDUIT SHALL BE OF AMPLE SIZE FOR PULLING OF WIRE AND SHALL NOT BE SMALLER THAN CODE REQUIREMENTS AND NOT LESS THAN 3/4" IN SIZE.

ALL ELECTRICAL WORK SHALL BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION. ANY WORK DAMAGED OR MOVED OUT OF LINE AFTER ROUGHING-IN SHALL BE REPAIRED TO MET ENGINEER'S APPROVAL WITHOUT ADDITIONAL COST TO THE OWNER.

CONDUIT TERMINATIONS AT PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL EQUIPMENT AND JUNCTION BOXES SHALL BE ALIGNED AND INSTALLED TRUE AND PLUMB.

INSTALL APPROVED EXPANSION FITTINGS WHERE CONDUIT OR EMT PASSES THROUGH EXPANSION JOINTS.

INSTALL A PULL WIRE IN EACH EMPTY CONDUIT WHICH IS LEFT BY THE CONTRACTOR FOR INSTALLATION OF WIRES OR CABLES BY OTHERS.

MAKE ALL JOINTS AND CONNECTIONS IN A MANNER WHICH WILL INSURE MECHANICAL STRENGTH AND ELECTRICAL CONTINUITY.

THRU-WIRING OF LIGHT FIXTURES IS NOT PERMITTED.

BUSHINGS AND LOCKNUTS

WHERE CONDUITS ENTER BOXES, THEY SHALL BE RIGIDLY CLAMPED TO THE BOX BY A BUSHING ON THE INSIDE AND A LOCKNUT ON THE OUTSIDE, AND CONDUIT SHALL ENTER THE BOX SQUARELY. BUSHINGS AND LOCKNUTS SHALL BE MADE OF GALVANIZED MALLEABLE IRON AND SHALL HAVE SHARP, CLEAN-CUT THREADS. WHERE THIN-WALL CONDUIT ENTERS BOX, PROVIDE APPROVED E.M.T. CONNECTORS. USE INSULATED GROUNDING BUSHINGS WHEREVER CONNECTION IS SUBJECT TO VIBRATION OR MOISTURE.

SECTION 260553 - EQUIPMENT IDENTIFICATION

THIS CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT IDENTIFICATION NAMEPLATES ON ALL PANELBOARDS, SWITCHES, STARTERS, ETC., INCLUDING SWITCHES IN DISTRIBUTION PANELS. NAMEPLATES SHALL BE ENGRAVED PHENOLIC PLASTIC AND SHALL BE FIRMLY ATTACHED TO THE EQUIPMENT WITH SELF-TAPPING, STAINLESS STEEL SCREWS OR STAINLESS STEEL MACHINE SCREWS WITH NUTS AN FLAT AND LOCK WASHERS. NAMEPLATES SHALL CLEARLY IDENTIFY EACH ITEM AND WHAT IT CONTROLS.

SECTION 262416 - PANELBOARDS

DESCRIPTION: NEMA PB1, CIRCUIT BREAKER TYPE, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.

PANELBOARD BUS: COPPER, RATINGS AS INDICATED. PROVIDE COPPER GROUND BUS IN EACH PANELBOARD; PROVIDE INSULATED GROUND BUS WHERE SCHEDULED.

MINIMUM INTEGRATED SHORT CIRCUIT RATING: 10,000 AMPERES RMS SYMMETRICAL FOR 240 VOLT PANELBOARDS.

MOLDED CASE CIRCUIT BREAKERS: NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS. TYPE HACR FOR AIR CONDITIONING EQUIPMENT CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS WHERE SCHEDULED. DO NOT USE TANDEM CIRCUIT BREAKERS.

ENCLOSURE: NEMA PB 1, TYPE 1.

CABINET BOX: 6 INCHES (153 MM) DEEP, 20 INCHES WIDE.

CABINET FRONT: SURFACE CABINET FRONT AS INDICATED WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE, METAL DIRECTORY FRAME, AND FLUSH LOCK ALL KEYED ALIKE. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL.

ACCEPTABLE MANUFACTURERS SHALL BE SQUARE D, SIEMENS, GENERAL ELECTRIC AND CUTLER HAMMER.

INSTALLATION

INSTALL PANELBOARDS IN ACCORDANCE WITH NEMA PB 1.1 AND THE NECA "STANDARD OF INSTALLATION."

INSTALL PANELBOARDS PLUMB. INSTALL RECESSED PANELBOARDS FLUSH WITH WALL FINISHES.

HEIGHT: 6 FEET (1800 MM) TO TOP OF PANELBOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET (1800 MM) WITH BOTTOM NO MORE THAN 4 INCHES (100 MM) ABOVE FLOOR.

PROVIDE FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.

PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD.

PROVIDE ENGRAVED PLASTIC NAMEPLATES.

GROUND AND BOND PANELBOARD ENCLOSURE ACCORDING TO NEC.

SECTION 262726 - WIRING DEVICES

FURNISH AND INSTALL THE FOLLOWING OUTLETS AND SWITCHES WHERE SHOWN OR REQUIRED. MINOR CHANGES RELATIVE TO THE LOCATION OF ELECTRICAL EQUIPMENT MAY BE MADE BY THIS CONTRACTOR TO COMPLY WITH STRUCTURAL AND BUILDING REQUIREMENTS AS DETERMINED IN THE COURSE OF CONSTRUCTION. ALL OUTLETS AND SWITCHES MUST BE OF THE SAME MANUFACTURER AND NOT MIXED ON THE PROJECT. COLOR OF TOGGLES AND RECEPTACLES SHALL BE AS REQUIRED BY THE ARCHITECT.

DUPLEX RECEPTACLE: PASS & SEYMOUR #5362
SINGLE POLE SWITCH: PASS & SEYMOUR #20AC1
THREE-WAY SWITCH: PASS & SEYMOUR #20AC3
PILOT LIGHT SWITCH: PASS & SEYMOUR #20AC1-RPL
KEY SWITCH: PASS & SEYMOUR #20AC1-L
GFCI DUPLEX RECEPTACLE: PASS & SEYMOUR #2091

EQUIVALENT HUBBELL, LEVITON AND BRYANT, WILL BE ACCEPTABLE. OTHER DEVICES SHOWN ON THE PLANS BUT NOT CALLED OUT ABOVE SHALL BE OF THE SAME CONSTRUCTION QUALITY AS DEFINED BY THE MODEL NUMBERS SHOWN.

SWITCH AND OUTLET COVER PLATES

ALL SWITCH AND OUTLET PLATES SHALL BE STAINLESS STEEL. SWITCH PLATES IN UNFINISHED ROOMS AND SPACES SHALL BE STAMPED STEEL PLATES, CADMIUM PLATED. GROUPS OF SWITCHES SHALL BE UNDER ONE GANG-PLATE, USUALLY MOUNTED HORIZONTALLY; WHERE REQUIRED BY DETAILS, VERTICAL MOUNTING SHALL BE USED INSTEAD. PLATES SHALL BE SET PLUMB, PARALLEL, AND SHALL FINISH FLUSH WITH THE WALL. WEATHERPROOF COVER PLATES SHALL BE CAST ALUMINUM LISTED AND LABELED EXTRA DUTY WITH PVC GASKETING AND RATED FOR "WHILE-IN-USE".

LOCATIONS OF OUTLETS, SWITCHES AND OTHER WIRING DEVICES

OUTLETS MUST BE CENTERED WITH REGARD TO PANELING, FURRING, AND TRIM. ANY OUTLET WHICH IS IMPROPERLY LOCATED MUST BE CORRECTED AT THE CONTRACTOR'S EXPENSE. OUTLETS MUST BE SET PLUMB OR HORIZONTAL AND SHALL EXTEND TO THE FINISHED SURFACE OF THE WALL, CEILING OR FLOOR AS THE CASE MAY BE WITHOUT PROJECTING BEYOND SAME. RECEPTACLES, SWITCHES, AND OTHER WIRING DEVICES SHOWN ON WOOD TRIM, CASES OR OTHER FIXTURES SHALL BE INSTALLED SYMMETRICALLY ON SUCH TRIM OR FIXTURE AND WHERE NECESSARY, SHALL BE SET WITH THE LONG DIMENSION OF THE PLATE HORIZONTAL, OR SHALL BE GANGED IN TANDEM.

MOUNTING HEIGHTS TO CENTER OF BOX ABOVE FINISHED FLOOR SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

GENERAL FLUSH SWITCHES, MANUAL STATIONS	48"
GENERAL CONVENIENCE RECEPTACLES	18"
PANELBOARDS, TO TOP	72"
SAFETY SWITCHES	54"
MOTOR CONTROLLERS	54"

SECTION 262816 - DISCONNECT SWITCHES

CONTRACTOR SHALL FURNISH AND INSTALL SQUARE D, SIEMENS, GENERAL ELECTRIC OR CUTLER HAMMER FUSED OR NON-FUSED (AS NOTED OR REQUIRED) NEMA HEAVY DUTY EXTERNALLY OPERATED SAFETY SWITCHES WHERE NOT FURNISHED WITH THE STARTING EQUIPMENT, AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSE HOLDERS SHALL HAVE CLASS R REJECTION FEATURE. CONSTRUCTION SHALL BE OF A NEMA DESIGN SUITABLE FOR THE ENVIRONMENT INSTALLED IN.

FUSES

EACH CIRCUIT AND SET OF FUSE CLIPS THROUGHOUT THE JOB SHALL BE EQUIPPED WITH BUSSMAN OR EQUIVALENT SHAWMUT FUSES, SIZE AND TYPE AS REQUIRED OR INDICATED. ALL FUSES LARGER THAN 600 AMPS, SHALL BE UL CLASS L, SIMILAR TO TYPE KRP-C. BUSSMAN LOW PEAK OR EQUIVALENT. FUSES USED TO PROTECT MOTORS SHALL BE UL CLASS RK5, BUSSMAN FUSETRON OR EQUIVALENT. ALL FUSIBLE SWITCHES THROUGHOUT THE PROJECT SHALL HAVE FUSE HOLDERS WITH CLASS R REJECTION FEATURE. ALL FUSED DEVICES SHALL BE LABELED AS TO TYPE AND SIZE OF FUSE REQUIRED.

SECTION 265100 - LIGHT FIXTURES

LIGHT FIXTURE LOCATIONS

LIGHT FIXTURES SHOWN ON THE ELECTRICAL DRAWINGS REPRESENT GENERAL ARRANGEMENTS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE EXACT LOCATIONS. COORDINATE LOCATION WITH ALL OTHER TRADES BEFORE INSTALLATION TO AVOID CONFLICTS. LIGHT FIXTURES LOCATIONS IN MECHANICAL ROOMS SHALL BE COORDINATED WITH FINAL INSTALLED PIPING AND DUCTWORK LAYOUTS.

LIGHT FIXTURES

PROVIDE LIGHT FIXTURES AS SCHEDULED ON DRAWINGS. THIS SHALL INCLUDE ALL LAMPS, MATERIAL AND LABOR TO SECURELY HANG FIXTURES. CLEAN THEM AND MAKE THEM COMPLETELY READY FOR USE. ALL LIGHT FIXTURES SHALL INCLUDE ALL NECESSARY ACCESSORIES REQUIRED. LIGHT FIXTURE MODELS SCHEDULED ON THE DRAWINGS ARE TO SHOW THE MANUFACTURER, GRADE AND STYLE OF FIXTURES REQUIRED ONLY. PROVIDE ALL HANGERS, SUPPORTS, AND MISCELLANEOUS HARDWARE REQUIRED TO INSTALL LIGHT FIXTURES. PROVIDE PROPER TRIM TO FIT EACH CEILING CONDITION ACTUALLY ENCOUNTERED.

LED LIGHTING

UL COMPLIANCE: COMPLY WITH UL 1598, CRI OF MINIMUM 70, CCT OF 4000K, L70 LAMP LIFE OF 50,000 HOURS.

INTERNAL DRIVER: 10KV SURGE SUPPRESSION PROTECTION IN ACCORDANCE WITH IEEE/ANSI C62.41.2.

NOMINAL OPERATING VOLTAGE: 120 VAC.

ELECTRICAL SPECIFICATIONS

WATER METER HOUSE
EAST GATE PLAZA

HASTINGS, NE

drawn by: EMK
designed by: FILE
project no.: 025-04734
date: JANUARY, 2026

SHEET
12 of 12

BY

DESCRIPTION

DATE

REV

NO.

REVISIONS

2026