

# DOCUMENT 00 90 10

## ADDENDUM No. 1



### PART 1 GENERAL

#### 1.1 DOCUMENT INCLUDES

- A. Changes to the Bid Documents.

#### 1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as North Street, Harrisville to Wall.
- B. Date of this Addendum: February 14, 2023.

### PART 2 CHANGES

#### 2.1 CHANGES TO PRIOR ADDENDA

- A. None

#### 2.2 CHANGES TO BIDDING REQUIREMENTS

- A. Document 00 41 00 (Bid Schedule), update the following items:

- i. BI 17, change Quantity from "3960" to "4070".
- ii. BI 18, change Quantity from "11" to "13".
- iii. BI 26, change Quantity from "740" to "450".
- iv. BI 29, change Quantity from "2315" to "2500".
- v. BI 21, change Description to "6" Concrete Sidewalk."
- vi. BI 46, change Unit from "EA" to "LF".
- vii. BI 67, change Quantity from "35" to "50"

- B. Document 00 41 00 (Part 3 Measurements and Payment), update the following items:

- i. Add the following under 3.1 General:
  1. "F. Investigatory exploration (potholing) shall be an incidental cost."
  2. "G. All Quality Control Testing shall be paid and coordinated by Contractor, with results provide to Engineer."
  3. "H. No recycled fill materials will be allowed in Right of Way."
- ii. Change 3.7.A to read "Measured by Square Yard (SY)."
- iii. Replace 3.32 with the following:

"3.32 CONCRETE SIDEWALK (6" THICK), Bid Item 31

  - A. Measured by square foot of finished surface (SF).
  - B. Payment includes all costs, materials, labor, and equipment incidental to the placement of 6-inch-thick concrete sidewalk. Includes placement and compaction of 6 inches of untreated base course per Ogden City Standards. Includes the necessary excavation/fill, necessary hauling, and disposal for correct placement of concrete sidewalk and untreated base course (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter)."

North Street- Harrisville to Wall

## **2.3 CHANGES TO AGREEMENT AND OTHER CONTRACT FORMS**

- A. Clarification – Sewer Bypass Pumping: UDOT has given approval to close Harrisville Road for a 8 hour night closure period for bypass pumping. Traffic Control shall include required documentation required by UDOT for the closure.

## **2.4 CHANGES TO CONDITIONS OF THE CONTRACT**

- A. None

## **2.5 CHANGES TO SPECIFICATIONS**

- A. None

## **2.6 CHANGE TO DRAWINGS**

- C. Added following items to Sheet C1.1 and C1.2 – Demolition Plan:
  - i. “CONTACTOR SHALL COORDINATE WITH PROPERTY OWNER FOR THE FOLLOWING ITEMS: RELOCATION OF EXISTING CHURCH SIGN, RELOCATE EXISTING BOULDERS AND ROCK, RELOCATE PAGODA LANTERN AND ASSOCIATED POWER, MAINTAIN POWER TO LANDSCAPE ISLAND, SALVAGE/REMOVE FENCE. “
  - ii. ADDED TREE REMOVAL AT STA. 6+17.
  - iii. SAW CUT AND REMOVE ASPHALT ITEMS UPDATED.
- D. Add the following changes to Sheet C2.2 Roadway Sheet:
  - i. Remove/delete callout from “TYPE 2 EMULSIFIED ASPHALT SLURRY SEAL OR UDOT TYPE “C” CHIP SEAL AS SPECIFIED BY CITY ENGINEER”.
  - ii. Sidewalk depth and UTBC depth changed from “4” to “6”.
- E. See Sheets C3.1-C3.2 and C5.1-C5.2 for the following updated items:
  - i. Lay out change at DRIVEWAY ENTRANCES TO BUDDHIST CHURCH.
  - ii. Location of proposed fence to be done by others along Church frontage.
  - iii. Relocate Sign Location.
  - iv. Added note “FUTURE LANDSCAPING, DONE BY OTHERS, TO MEET WATER WISE LANDSCAPING PER CITY CODES 15-4-5.E, 15-13-16, AND 15-28.”
  - v. Updated Buddhist Church Site Restoration note to add the following “SITE RESTORATION BUDDHIST CHURCH 6:1 TAPER -ROCK 4" DEPTH (15.6 CY) GEOTEXTILE FABRIC (1260 SF)”

END OF SECTION

# **DOCUMENT 00 41 10**

## **BID SCHEDULE**

### **PART 1 GENERAL**

#### **1.1 DOCUMENT INCLUDES**

- A. Bid schedules.
- B. Measurement and payment provisions.

#### **1.2 CONSTRUCTION CONTRACT**

- A. The Construction Contract is known as:

**North Street - Harrisville to Wall**

#### **1.3 REFERENCES**

- A. APWA 01 29 00: Payment Procedures.
- B. Document 00 50 00: Agreement.

#### **1.4 SCHEDULE TO BE ADDED TO THE AGREEMENT**

- A. This document will be added to the Bid and Agreement by reference.

### **PART 2 BID SCHEDULES**

#### **2.1 BASE BID**

- A. Bid Schedule No. 1 below describes work basic to the Contract.

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**BID SCHEDULE No. 1****North Street between Harrisville Road and Wall Avenue., North Street****- Harrisville to Wall****Bid Schedule****North Street - Road Way Improvements, Wall to Harrisville Rd.**

<b>Bid Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
1	Traffic Control	1	LS		
2	Mobilization	1	LS		
3	Survey	1	LS		
4	Storm Water Pollution Plan	1	LS		
5	Roadway Excavation	2,176	CY		
6	Clear and Grub/Site Clearing	2025	SY		
7	Relocate Fence @ House #134	1	LS		
8	Remove Fence and Gate	569	LF		
9	Remove Curb and Gutter	162.5	LF		
10	Remove Sidewalk/Concrete Flatwork	927	SF		
	Remove Storm/Irrigation Catch Basin/Manhole Box	1	EA		
11	Remove Irrigation Pipe	210	LF		
12	Remove Irrigation Culvert	70	LF		
13	Remove Sewer Manhole	2	EA		
14	Flow Fill Sewer Pipe (10" Diameter)	822	LF		
15	Remove Fire Hydrant Assembly	1	EA		
16	Remove Asphalt Pavement	4,070	SY		
17	Remove Tree 6" diameter or larger	13	EA		
18	Relocate Existing Mailbox	3	EA		
19	UDOT/APWA Spec Untreated Road Base - Grade 1	2,740	TN		
20	UDOT/APWA Spec Granular Borrow (CBR-30)	150	TN		
21	HMA - DM 3/4 PG 58 - 28 15% Max APWA	1,370	TN		
22	Subgrade Stabilization	60	TN		
23	Stabilization Separation Fabric	170	SY		
24	UDOT HMA – DM 1/2 PG 64-34	101	TN		
25	Asphalt Driveway (3" Thick)– DM 3/4 PG 58-28	450	SF		
26	30" Concrete Curb and Gutter (Type A)	1,649	LF		

28	24" Concrete Curb and Gutter (Type E) Transition	8	LF		
29	Concrete Driveway Approach - 6" Thick	2500	SF		
30	Concrete Driveway Approach - 8" Thick	530	SF		
31	4" Concrete Sidewalk	3200	SF		
32	Detectable Warning Surface	4	EA		
33	6" Concrete ADA Ramp Flatwork	375	SF		
34	Adjust Manhole Rim	1	EA		
35	24" Reinforced Concrete Pipe, Class V (Irrigation)	208	LF		
36	24" Reinforced Concrete Pipe, Class III (Irrigation)	184	LF		
37	3' x 3' Junction Box (Irr.)	3	EA		
38	15" Reinforced Concrete Pipe, Class III (Storm)	320	LF		
39	Catch Basin With Curb Inlet (Single Grate)	1	EA		
40	Catch Basin With Curb Inlet (Double Grate)	2	EA		
41	Irrigation/Storm Drain Box w/ Wall	1	EA		
42	Catch Basin Sump	1	EA		
43	15" PVC (SDR-35) Sanitary Sewer Pipe	840	LF		
44	5' Sewer Manhole	4	EA		
45	Sewer Pipe Trenching	840	LF		
46	Sewer Lateral With Cleanout	360	LF		
47	Fire Hydrant Assembly	1	EA		
48	Fire Hydrant - Reconnect to Lateral	1	EA		
49	1" Service Lateral	310	LF		
50	1" Water Meter Assembly	1	EA		
51	5/8" Water Meter Assembly	9	EA		
52	Corp. Stop, Direct Tap to Main	2	EA		
53	12" Solid White Stripe (Crosswalk, Stop Bar)	366.5	LF		
54	Pavement Marking	6	EA		
55	4" Solid White Line	1139	LF		
56	8" Solid White Line	280	LF		
57	4" Double Solid Yellow Line	681	LF		
58	4" Solid and Broken Yellow Line	572	LF		
59	Relocate Pedestrian Signal Assembly	2	EA		
60	Highway Luminaire Arm and Vertical Extension	2	EA		
61	Street Lighting Luminaires	5	EA		
62	Electrical Junction Box	5	EA		
63	1-1/2 Inch Conduit and Wire	1115	LF		

64	Relocate Lighted Sign	1	EA		
65	Topsoil	14	TN		
66	Turf Grass	600	SF		
67	Landscaping Rock with Geotextile Fabric	50	CY		
68	Landscape Repair	2238	SF		

Total = \$ \_\_\_\_\_

Schedule Total in Words \_\_\_\_\_

Signature \_\_\_\_\_

## **PART 3 MEASUREMENTS AND PAYMENT**

### **3.1 GENERAL**

- A. See measurement and payment procedures in APWA Section 01 29 00.
- B. ENGINEER will take all measurements and compute all quantities.
- C. CONTRACTOR will verify measurement and quantities.
- D. CONTRACTOR will provide all equipment, workers, and survey crews to assist ENGINEER in making measurements.
- E. Units of measurement are listed above in the bid schedule(s).
- F. **Investigatory exploration (potholing) shall be an incidental cost.**
- G. **All Quality Control Testing shall be paid and coordinated by Contractor, with results provide to Engineer.**
- H. **No recycled fill materials will be allowed in Right of Way.**

### **3.2 TRAFFIC CONTROL, Bid Item 1**

- A. Measured by lump sum (LS).
- B. Payment includes all costs incidental to traffic control as specified in specification 01 55 26M from Wall Ave. to Harrisville Rd. Payment will be made on a percentage basin as follows. Traffic Control plan is to be design by a licensed engineer and must be submitted to Ogden City and UDOT for approval. Contractor shall also be responsible for any changes or other maintenance throughout the duration of this project.
- C. Traffic control plan within 10 days of receiving the Notice of Intent to Award. A traffic control plan must be approved and stamped by an engineer before a right of way permit is issued.

Percent of Original Contract Amount Earned	Percent of Amount Bid for Traffic Control to be Paid
5	50
15	20
40	20
50	10

### **3.3 MOBILIZATION/DEMOBILIZATION, Bid Item 2**

- A. Measured by lump sum (LS).
- B. Payment covers cost of mobilization, demobilization and installation of temporary facilities. Payment will be made on a percentage basis as follows.
- C. Payment also includes costs related to responsive coordination with the North Street Public Involvement Manager (PIM).
- D. Payment also includes costs related to testing necessary to complete the project which is not covered under specific bid items below. All testing which is required by APWA or Ogden City Engineering standards shall be covered as part of this item.

Percent of Original Contract Amount Earned	Percent of Amount Bid for Mobilization to be Paid
5	40
15	20
40	30
50	10

### **3.4 SURVEY, Bid Item 3**

- A. Measured by lump sum (LS).
- B. Payment includes all costs incidental with project surveying and staking including mobilization.
- C. Original Control Survey Monument points are specified per the project design plans. Once removed, the CONTRACTOR is responsible for all future referencing.

### **3.5 STORM WATER POLLUTION PREVENTION PLAN, Bid Item 4**

- A. Measured by lump sum (LS).
- B. Payment covers the CONTRACTOR in providing and maintaining a storm water pollution prevention plan as outlined by the State of Utah DWQ. Permit No. UTR300000 found at: <http://www.waterquality.utah.gov/UPDES/stormwatercon.htm> which outlines the required steps for preparing and maintaining the SWPPP, provides guidelines, examples, templates, BMP specifications, etc. The CONTRACTOR will be listed as an operator along with Ogden City. Payment also covers all erosion control that is not listed as separate bid items, which includes; silt fence, construction fencing, inlet protection, inlet clean-out (if necessary), and stabilized roadway entrances. (Refer to Section 31 25 00 SP)
- C. The contractor will need to file an NOI with the state of Utah. The Contractor shall also be responsible for all the paperwork, plans, designs, etc. which must be included to obtain the necessary Storm Water Permits.

### **3.6 ROADWAY EXCAVATION, Bid Item 5**

- A. Measured by cubic yard (CY) plan set based quantity.

- B. Payment includes all costs incidental to roadway excavation. Pay quantities will be computed in the original position to the neat lines and grades or pay limits of excavation specified using the given plan quantities.
- C. Roadway excavation includes the removal of all items, not including roadway asphalt, within the existing roadway area including, but not limited to native soil, dirt fill, rocks, boulders, tree roots, and any other material removed to the designed depth for the proposed engineered roadway. Includes the hauling and disposal of excavated material.
- D. Excavation completed for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.
- E. For material ordered removed and replaced (authorized extra excavation and backfill), measurement of quantities for payment shall be made to the following **pay limits**.
  - 1. Upper limit of excavation is the proposed excavation limit.
  - 2. Lower and lateral limits are as authorized by ENGINEER.
  - 3. Volumes of open spaces (e.g. manholes, pipes, dipstones, inlets etc.) will not be measured in backfill calculations.

### **3.7 CLEAR AND GRUB, Bid Item 6**

- A. **Measured by square yard (SY).**
- B. Payment includes all costs incidental to general landscape excavation between existing edge of asphalt to proposed Right of Way to the depth necessary for installation of proposed curb and sidewalk.
- C. Clear and grub includes the removal of items within the cut/fill line including but is not limited to incidental landscaping items and tree roots, salvaging street sign at the southeast corner of wall. Excavated backfill material may be used as fill at locations outside of the roadway section as allowed by the ENGINEER. Includes disposal of excess excavated material.
- D. Excavation completed for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.
- E. For material ordered removed and replaced (authorized extra excavation and backfill), measurement of quantities for payment shall be made to the following **pay limits**.
  - 1. Upper limit of excavation is the proposed excavation limit.
  - 2. Lower and lateral limits are as authorized by ENGINEER.
  - 3. Volumes of open spaces (e.g. manholes, pipes, etc.) will not be measured in backfill calculations.

### **3.8 RELOCATE FENCE at HOUSE #134, Bid Item 7**

- A. Measured by lump sum (LS).
- B. Payment includes all costs incidental to the removal and disposal of PVC and chain link, posts, post foundations, mow strips and reposting of fence cut-off; Chain link fence curtain, top rails to be relocated with new posts and foundations, replace top rail PVC portions. Fence to be relocated to proposed Right of Way as shown on the plans.

Includes backfilling of all post holes with asphalt if surrounded by pavement and any associated landscape restoration and sprinkler system repair due to damages made during fence relocation.

### **3.9 REMOVE FENCE AND GATE, Bid Item 8**

- A. Measured by linear foot at base of fence and gate (LF).
- B. Payment includes all costs incidental to the removal and disposal of fencing, gate, posts, post foundations and reposting of fence cut-off. Fence to be removed as shown on the plans. Includes backfilling of all post holes with asphalt if surrounded by pavement and any associated landscape restoration and sprinkler system repair due to damages made during fence removal.

### **3.10 REMOVE CURB AND GUTTER, Bid Item 9**

- A. Measured by linear foot along the lip of gutter (LF).
- B. Payment includes all costs and equipment incidental to the removal and disposal of concrete curb and gutter and base material to the depth necessary for proposed roadway installation. Includes necessary fill to bring up to grade or as directed by the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

### **3.11 REMOVE SIDEWALK / CONCRETE FLATWORK, Bid Item 10**

- A. Measured by square foot (SF).
- B. Payment includes all costs and equipment incidental to the removal and disposal of all concrete flatwork and base material. Includes necessary fill to bring up to grade under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

### **3.12 REMOVE STORM/IRRIGATION CATCH BASIN / MANHOLE / JUNCTION BOX/INLET, Bid Item 11**

- A. Measured by each structure (EA).
- B. Payment includes all costs and equipment incidental to catch basin/manhole/junction box/inlet removal and disposal. Includes any necessary approved backfill to the necessary grade under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction, and testing which may be required by the ENGINEER.

### **3.13 REMOVE IRRIGATION PIPE, Bid Item 12,**

- A. Measurement shall be made per linear foot (LF) basis, measured in the field, to the nearest foot. Unless indicated otherwise, measurement to be along the pipe from the inside face to inside face of manholes or other structures, or to the end of the pipe where no structure

exists.

- B. Payment shall be made at the linear foot price and shall include all costs for labor, tools, materials, and equipment involved in excavating, removing, and disposing of the existing irrigation pipe as shown on the drawings. Payment also includes excavation; supplying, installing, and compacting import granular backfill to the necessary grade under the direction of the ENGINEER, and restoring any adjacent facilities disturbed by construction activities associated with this item.
- C. Contractor to coordinate with irrigation company for schedule, shutoff, etc.

### **3.14 REMOVE IRRIGATION CULVERT, Bid Item 13**

- A. Measurement shall be made per linear foot (LF) basis.
- B. Payment includes all costs and equipment incidental to irrigation culvert removal and disposal. Culvert consists of railroad ties and concrete with rock wall foundation. Includes any necessary approved backfill to the necessary grade under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction, and testing which may be required by the ENGINEER.
- D. Contractor to coordinate with irrigation company for schedule, shutoff, etc.

### **3.15 REMOVE SEWER MANHOLE, Bid Item 14**

- A. Measured by each (EA).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, demolition, backfill, backfill material to bring it up to road base grade, compaction, disposal, and testing to remove existing manhole structures and penetrating piping as specified by the ENGINEER.

### **3.16 FLOW FILL SEWER PIPE, Bid Item 15**

- A. Measured per linear foot along the length of the pipe (LF).
- B. Payment includes all costs and equipment incidental to install flowable fill in the abandoned sewer pipe. The work associated with this item shall include installation a low strength material flowable fill in all abandoned pipes as indicated on the plans. Opening of pipe at intervals necessary to install the flowable fill and to release air as needed are included in this item. Refer to APWA 31 05 15 Cement Treated Fill. Includes any necessary approved material to be used as backfill, with associated compaction and testing to the necessary grade under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction, and testing which may be required by the ENGINEER.

### **3.17 REMOVE FIRE HYDRANT, Bid Item 16**

- A. Measurement will be made by actual count per each removed (EA).
- B. Payment covers the cost of excavation, backfill, flowable fill, demolition, removal, and

salvage of the fire hydrant assembly and removal of valve box below grade. (Refer to Section 02 41 13, Selective Site Demolition). Payment covers a restrained cap placed at the mainline tee.

### **3.18 REMOVE ASPHALT PAVEMENT, Bid Item 17**

- A. Measured by square yard of asphalt pavement removed (SY).
- B. Payment covers saw cutting pavements and necessary work to remove, haul, and dispose of all pavement, concrete, and reinforced concrete within the existing roadway in conjunction with the geotechnical report. Payment covers the cost of furnishing all necessary equipment, labor, hauling, and compaction.
- C. According to the geotechnical report, existing asphalt pavement thickness is approximately 3-8 inches with the granular backfill ranging from 36 to 42 inches based on the 2 borings B-1 and B-2, along North Street between Wall Ave and Harrisville Rd.

### **3.19 REMOVE TREE (6"-24" Diameter Trunk), Bid Item 18**

- A. Measured per each tree and stump (EA).
- B. Tree diameter shall be measured at 4.5 feet from the ground. Item includes tree diameters between the sizes greater than or equal to 6" and less than 24".
- C. Payment includes removal and disposal of tree and stump and grinding of stump. Contractor shall remove stump and root 12 inches below existing ground or base of proposed grade (ex. base of pavement section or base of driveway UTBC) whichever is greater.
- D. Refer to the Ogden City Urban Forestry Contractor Packet for additional information.

### **3.20 RELOCATE MAILBOX, Bid Item 19**

- A. Measured per each (EA).
- B. Payment includes the removal of mailbox post and foundation and installation of the new mailbox post and foundation. Includes temporary relocation as needed during construction to ensure continuous mail service.

### **3.21 APWA SPEC UNTREATED ROADBAS - GRADE 1, Bid Item 20**

- A. Measured per ton (TN)
- B. Payment includes all costs incidental to the placement of untreated base course in its final position including but not limited to labor, material, and equipment to provide and install, compaction (density 95% or greater, and lifts maximum 8" thick using riding compaction and 6" thick using handheld compaction equipment), and grade base course material as specified by Ogden City Standards and Specifications. Weigh tickets shall be provided to the ENGINEER daily.
- C. Payment covers the cost of installing the full thickness of road base (Grade 1 at 10" Thick) for the width of proposed roadway, 8" Thick inside UDOT ROW.

**3.22 UDOT SPEC GRANULAR BORROW (12" Thick) (CBR-30), Bid Item 21**

- A. Measured by ton (TN). Plan set quantity.
- B. Payment covers cost of all labor, material, and equipment to provide and install, compact, and grade fill material as specified by UDOT Standards and Specifications 02056. Weigh tickets shall be provided to the ENGINEER daily.
- C. Measurement shall be for material compacted in place in preparation for placement of base course material. This bid item is intended for road section inside UDOT ROW.

**3.23 HMA – DM ¾ PG 58-28, Bid Item 22**

- A. Measured by ton (TN).
- B. Payment includes all costs, labor, material, and equipment to provide, install and compact incidental to the placement of HMA Class I – DM ¾ PG 58-28 not to exceed 15% RAP, in its final position as specified by APWA Specification 32 12 05 Bituminous Concrete Part 2, 2.1 Binder, and Ogden City Engineering Standards and Specifications or as specified by the ENGINEER. Weigh tickets shall be provided to the Engineer daily. Sub-grade and Base Course shall be compacted, proof rolled prior to installation of asphalt. Reference APWA 32 12 13.16 Plant-Mix Bituminous Paving.
- C. The asphalt roadway section shall be a total of 5 inches in depth.

**3.24 SUBGRADE STABILIZATION, Bid Item 23**

- A. Measured per ton (TN).
- B. Payment includes all costs incidental to the excavation for and placement of subgrade stabilization in its final position including but not limited to labor, material, and equipment to provide and install, compaction (density 92% or greater, and lifts maximum 8" thick using riding compaction and 6" thick using handheld compaction equipment), as per APWA PLAN 245. Weigh tickets shall be provided to the ENGINEER daily. Refer to APWA Section 31 05 13.
- C. Payment covers the cost of installing the full thickness of 2" minus Granular Borrow and stabilization separation fabric for the areas determined by ENGINEER that require soft spot repair.

**3.25 STABILIZATION SEPERATION FABRIC, Bid Item 24**

- A. Measured by square yard (SY) installed.
- B. Payment covers cost of all labor, material, and equipment to provide and install stabilization separation fabric Mirafi 500x or approved equal. Refer to APWA Section 31 05 19.
- C. Measurement shall be for material use to fully envelope the subgrade stabilization material installed as determined by ENGINEER.

**3.26 UDOT HMA – DM 1/2 PG 64-34, Bid Item 25**

- A. Measured by ton (TN).

- B. Payment includes all costs, labor, material, and equipment to provide, install and compact incidental to the placement depth to match existing, or the anticipated existing of 8 inches of UDOT- approved hot mix asphalt (HMA), PG-grade 64-34 asphalt binder not to exceed 15% RAP, 1/2 inch nominal max, 7-75-115 gyration per UDOT standard Specification 02741 or as specified by the ENGINEER. Weigh tickets shall be provided to the Engineer daily. Sub-grade and Base Course shall be compacted, proof rolled prior to installation of asphalt.
- C. Provide documentation of compaction from a UDOT-qualified laboratory.

**3.27 ASPHALT DRIVEWAY (3") – DM 3/4 PG 58-28, Bid Item 26**

- A. Measured by square foot of finished surface (SF).
- B. Payment includes all costs, labor, material, and equipment to provide, install and compact incidental to the placement of HMA Class I – DM 3/4 PG 58-28 not to exceed 15% RAP as specified by APWA Specification 32 12 05 Bituminous Concrete Part 2 2.1 Binder, and Ogden City Engineering Standards and Specifications or as specified by the ENGINEER, at minimum 3 inches or match existing up to 5 inches thick over 8 inches of untreated base course. Includes the necessary untreated base course and excavation/granular borrow fill and compaction for correct placement of asphalt driveway. Reference APWA 32 12 13.16 Plant-Mix Bituminous Paving.

**3.28 CONCRETE CURB AND GUTTER (TYPE A), Bid Item 27**

- A. Measured by linear foot along front face of curb (LF).
- B. Payment includes all costs, materials, labor, and equipment incidental to the placement of type A concrete curb and gutter and 8" compacted road base per Ogden City Standards. Includes the necessary excavation/fill, and any necessary hauling and disposal for correct placement of curb and gutter and road base (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. This item includes any required cuts for driveway approach placement.

**3.29 CONCRETE CURB AND GUTTER (TYPE E), Bid Item 28**

- A. Measured by linear foot along front face of curb (LF).
- B. Payment includes all costs, materials, labor, and equipment incidental to the placement of type E concrete curb and gutter and 8 inches compacted road base per Ogden City Standards. Includes the necessary excavation/fill, and any necessary hauling and disposal for correct placement of curb and gutter and road base (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).

**3.30 CONCRETE DRIVE APPROACH – 6" THICK, Bid Item 29**

- A. Measured by square foot of finished surface (SF).
- B. Payment includes all costs, materials, labor and equipment incidental to the placement of the 6 inch thick concrete approach including but not limited to aprons, flares, sidewalk and flatwork items. Includes placement and compaction of 6 inches of untreated base course. Includes the necessary excavation/ granular borrow fill, hauling

and disposal, for correct placement of approach and untreated base course (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).

### **3.31 CONCRETE DRIVE APPROACH – 8” THICK, Bid Item 30**

- A. Measured by square foot of finished surface (SF).
- B. Payment includes all costs, materials, labor and equipment incidental to the placement of the 8 inch thick concrete approach including but not limited to aprons, flares, sidewalk and flatwork items. Includes placement and compaction of 8 inches of untreated base course. Includes the necessary excavation/ granular borrow fill, hauling and disposal, for correct placement of approach and untreated base course (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).

### **3.32 CONCRETE SIDEWALK (6” THICK), Bid Item 31**

- A. Measured by square foot of finished surface (SF).
- B. Payment includes all costs, materials, labor, and equipment incidental to the placement of 6-inch-thick concrete sidewalk. Includes placement and compaction of 6 inches of untreated base course per Ogden City Standards. Includes the necessary excavation/fill, necessary hauling, and disposal for correct placement of concrete sidewalk and untreated base course (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).

### **3.33 DETECTIBLE WARNING SURFACE, Bid Item 32**

- A. Measured per each (EA).
- B. Payment includes all costs, materials, labor, and equipment incidental to the placement of a tactile warning pad that is yellow in color, which meets ADA requirements and UDOT Standard Drawing PA Series at the location indicated by the plans.

### **3.34 CONCRETE ADA RAMP FLATWORK (6” THICK), Bid Item 33**

- A. Measured by square foot of finished surface (SF).
- B. Payment includes all costs, materials, labor, and equipment incidental to the placement of the pedestrian access ramps meeting ADA and UDOT Standard Drawings PA Series requirements at the locations indicated by the plans. Includes the necessary excavation and fill for correct placement of 6-inch-thick concrete flatwork and 6 inches of untreated base course, and compaction of base course.

### **3.35 ADJUST MANHOLE RIM, Bid Item 34**

- A. Measured by Each (EA).
- B. Payment includes all costs incidental to structure adjustment to grade. This includes all concrete, rebar, road base and other items to adjust the rim to grade and complete the concrete collar per APWA and Ogden City Engineering requirements.

### **3.36 REINFORCED CONCRETE PIPE, CLASS III and CLASS V, Bid Items 35, 36, 38**

- A. Measurement will be made from structure to structure along centerline of pipe per linear

foot (LF).

- B. Payment covers the cost of the size and type of pipe indicated, with installation per APWA Plan No. 381 and surface restoration not identified as separate pay items in the price schedule. Payment includes excavation and bedding material in the pipe zone. Payment covers the cost of incidental work such as, fittings, couplings, joint lubricants; selective clearing and tree removal; removal and disposal of interfering structures and obstructions; concrete rings, frame and lid as applicable; grout; jackhammer work; trench shoring or trench boxes as applicable; underground line markers; cleaning of invert covers; removal and disposal of waste materials; restoration of all utilities damaged as a result of operations; site dewatering; pipe line cleaning; main repair or replacement if damaged by CONTRACTOR; and similar work to complete the installation of the pipe.
- C. Storm drain line must be flushed and video inspected prior to acceptance by the City. A copy of the video will also need to be provided to the City. The inspection must be completed prior to pavement installation.

### **3.37 3' X 3' JUNCTION BOX (IRRIGATION), Bid Item 37**

- A. Measurement will be each inlet installed (EA).
- B. Payment includes all necessary materials required to construct and install a complete drainage structure including but not limited to the following: Concrete, reinforcing steel, pedestrian grate and frame, mortar, and any other items required in standard drawings.
- C. The connection to any pipe culvert or other drainage feature will be incidental to construction and no separate payment will be made for this work.

### **3.38 CATCH BASIN WITH CURB INLET (SINGLE GRATE) AND CURB INLET (DOUBLE GRATE), Bid Items 39, 40**

- A. Measurement will be each inlet installed (EA).
- B. Payment includes all necessary materials required to construct and install a complete drainage structure including but not limited to the following: Concrete, reinforcing steel, grate and frame, manhole steps, mortar, and any other items required in standard drawings. Payment also includes raise and collar of structure to finish grade.
- C. The connection to any pipe culvert or other drainage feature will be incidental to construction and no separate payment will be made for this work.
- D. Refer to Ogden City standard drawing number SD-1 and APWA Plan 315.2.

### **3.39 IRRIGATION/STORM DRAIN BOX WITH WALL, Bid Item 41**

- A. Measurement will be each item installed (EA).
- B. Payment includes all necessary materials required to construct and install a complete drainage structure including but not limited to the following: Concrete, reinforcing steel grate and frame, manhole steps, and any other items required in standard drawings. Payment also includes raise and collar of structure to finish grade.

- C. The connection to any pipe culvert or other drainage feature will be incidental to construction and no separate payment will be made for this work.
- D. Refer to project plans Detail 1 Irrigation/Storm Drain Box With Wall on Sheet C7.3 and APWA Plan 331.2.

#### **3.40 CATCH BASIN SUMP, Bid Item 42**

- A. Measurement will be each item installed (EA).
- B. Payment includes all necessary materials required to construct and install a complete drainage structure including but not limited to the following: Concrete, reinforcing steel, grate and frame, manhole steps, washed gravel, filter fabric and any other items required in standard and project drawings. Payment also includes raise and collar of structure to finish grade.
- C. The connection to any pipe culvert or other drainage feature will be incidental to construction and no separate payment will be made for this work.
- D. Refer to project plans Detail 2 Curb Inlet Sump on Sheet C7.3.

#### **3.41 15" POLYVINYL CHLORIDE (PVC) SDR-35 SEWER PIPE, Bid Item 43**

- A. Measured per linear foot (LF) from center to center of structure.
- B. Payment covers the cost of the size and type of pipe indicated, with installation per Ogden City Standard Drawing SS-3. Payment covers the cost of incidental work such as, fittings, couplings, joint lubricants, nuts, bolts and washers; removal and disposal of interfering structures and obstructions; grout; jackhammer work; trench shoring or trench boxes as applicable; underground line markers; cleaning of invert covers; removal and disposal of waste materials; bypass pumping of all sewage to keep the line in service; restoration of all utilities damaged as a result of operations; site dewatering; trunk line cleaning and commissioning; utility repair or replacement if damaged by CONTRACTOR; adjustments to grade for manhole inverts and similar work to complete the installation of the sanitary sewer trunk line.

#### **3.42 60" SEWER JUNCTION BOX MANHOLE, Bid Item 44**

- A. Measured per each (EA)
- B. Payment covers the cost of excavation, bedding and backfill, potholing, dewatering, shoring, and new manhole materials; acquisition and installation of new manhole, sewer lid, ring & cover, adjust the structure and collaring to final grade, relocation as needed of customer connection within manhole, connections to other mains, testing, grouting; providing material, labor, and incidentals for reconnecting all pipes to new manhole; and other miscellaneous devices, materials, or equipment required for a complete installation. Refer to Ogden City Standard Drawings SS-1 and SD-4.

#### **3.43 SEWER PIPE TRENCHING, Bid Item 45**

- A. Measurement shall be per linear foot (LF) of trenching measured along the horizontal length

of pipe laid.

B. Payment shall be at the linear foot unit price bid and shall include all costs to furnish and stockpile the import bedding and pipe zone material stockpile and import granular backfill materials (APWA - 2" Minus Granular Fill Borrow); excavate the trench; excavation for bells; place, shape, compact and prepare the material around the pipe, provide compaction and gradation tests, provide certified scale tickets for the material delivered, dewatering, and traffic control. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Trench width must be a minimum of 4' wide and must meet pipe zone width recommended by the manufacturer of the pipe or Ogden City Engineering Standards. Pipe bedding material shall be placed a minimum of six inches below the pipe and up to spring line of the pipe and pipe zone backfill placed from spring line of pipe to 1' above pipe as per Ogden City Standards Plan SS-4. The import granular backfill borrow shall be placed directly above the import pipe bedding and pipe zone material to the bottom of the untreated base course layer. There will be no payment for over excavation unless approved in written form by the ENGINEER prior to the excavation.

#### **3.44 ADJUST SEWER LATERAL, Bid Item 46**

- A. Measured per linear foot (LF) installed.
- B. Payment covers the cost of excavation, soil preparation, potholing, connection of the sewer lateral to new sewer trunk line, wye, tee, Fernco shear coupling, and 6-inch PVC SDR 35 sewer lateral, rubber gaskets, fitting, Cleanout Christy G08 Cleanout Box, commissioning lateral; and other miscellaneous devices, materials, or equipment required for a complete service connection. Refer to SS-8 of the Ogden City Engineering Standards for any additional requirements.
- C. Payment includes cost to furnish and stockpile import pipe bedding, and back fill material, placement and compaction to the bottom of the untreated base course layer.

#### **3.45 FIRE HYDRANT ASSEMBLY, Bid Item 47**

- A. Measurement will be made by actual count per each installed (EA).
- B. Payment covers the cost of excavation, soil preparation, potholing, the new fire hydrant with surface coatings and fittings, 6-inch ductile iron supply main piping, connection of the new fire hydrant to existing water main with ductile iron tee; gate valve with 2 piece cast iron screw type valve boxes, tracer wire, tracer wire snake pits, traffic lids; miscellaneous tees, sleeves, bends, gaskets, bolts, nuts; approved joint restraining devices; greasing and wrapping all exposed fittings, bolts and nuts; pipeline dewatering; concrete thrust restraints; concrete box repair, capping or plugging of the existing water pipe(s) to be abandoned, removal or abandonment of the existing water pipe(s), removal of the existing fire hydrant (if not called out separately), disinfection and commissioning pipeline; adjustment of valve box lids to final grade with concrete and painting and other miscellaneous devices, materials, or equipment required for a complete installation of the fire hydrant assembly per Ogden City Standard Drawing W-1. (Refer to Section 33 12 19, Hydrants)

### **3.46 FIRE HYDRANT - RECONNECT TO LATERAL, Bid Item 48**

- A. Measurement will be made by actual count per each item installed (EA).
- B. Payment covers the cost of removal and salvaging existing hydrant, excavation, soil preparation, potholing, the new fire hydrant with surface coatings and fittings, 6-inch supply main piping connected to existing supply main, piping. sleeves, bends, gaskets, bolts, nuts; approved joint restraining devices; greasing and wrapping all exposed fittings, bolts and nuts; pipeline dewatering; concrete thrust restraints; capping or plugging of the existing water pipe(s) to be abandoned, removal or abandonment of the existing water pipe(s), removal of the existing fire hydrant (if not called out separately), disinfection and commissioning pipeline; painting and other miscellaneous devices, materials, or equipment required for a complete installation of the fire hydrant assembly per Ogden City Standard Drawing W-1. (Refer to Section 33 12 19, Hydrants)

### **3.47 1" AWWA C901 SERVICE LATERAL, Bid Item 49**

- A. Measurement will be made by linear foot (LF).
- B. Payment covers the cost of excavation, soil preparation, potholing, import pipe bedding & backfill, disturbed concrete repair & disposal, the new water lateral piping, new service connection piping, connection of the new water lateral to the existing corp. stop, adapters and couplers, removal or abandonment and disposal of the existing water pipe(s); and other work incidental to the installation of the water lateral per Ogden City Standard Drawing W-3. (Refer to Section 33 12 33, Water Meter)

### **3.48 TYPE 1 – 1" & 5/8" WATER METER ASSEMBLY, Bid Item 50, 51**

- A. Measurement will be made by actual count per each installed (EA).
- B. All parts shall be 1", excluding 1" to 5/8" meter adapters. Payment covers the cost of excavation, potholing, new meter assembly materials and devices; acquisition and installation of new Raven meter box, ring & cover; removal and disposal of existing meter assembly; connection of the new water lateral to the servicing meter **in-line** with the existing service connections; connection of the new meter to the service connection, removal or abandonment of the existing water lateral tubing and fittings; and other miscellaneous devices, materials, or equipment required for a complete installation. New meters will be provided by Ogden City. See Ogden City Standard Drawing W-3. Ogden City's Water Department Approved Materials List should be consulted for acceptable equipment types. (Refer to Section 33 12 33, Water Meter)

### **3.49 CORP. STOP, DIRECT TAP TO MAIN, Bid Item 52**

- A. Measurement will be made by actual count per each item installed (EA).
- B. Payment covers the cost of excavation, soil preparation, potholing, import pipe bedding & backfill, disturbed concrete repair & disposal, the new water lateral piping, new service connection piping, connection of the new water lateral to new water main, service tapping and tap saddles, corp. stops, existing removal or abandonment and disposal of the existing water pipe(s); and other work incidental to the installation of the water lateral per Ogden City Standard Drawing W-3. (Refer to Section 33 12 33, Water Meter).

### **3.50 TRAFFIC STRIPING, Bid Items 53, 55, 56, 57, 58**

- A. Measurement shall be per linear foot (LF) of stripe placed per stripe line type and color, with no deductions made for skips.
- B. Striping shall be placed in accordance with the current edition of MUTCD and shall include payment for all work incidental to the placement of the striping, including removal of existing striping, warranty of striping, tabbing, striping layout, and survey, etc.

### **3.51 PAVEMENT MARKING, Bid Item 54**

- A. Measurement shall be per each (EA) retroreflective painted arrow placed.
- B. Pavement marking shall be accordance with the current edition of MUTCD and payment shall all work incidental to the placement of the preformed retroreflective marking, including removal of the existing pavement marking and striping, preparation of the pavement surface, and warranty of striping.

### **3.52 RELOCATE PEDESTRIAN SIGNAL ASSEMBLY, Bid Item 59**

- A. Measured by each (EA) pedestrian signal assembly relocated.
- B. Payment includes relocating existing pedestrian signal pole, pedestrian signal and push button; furnish and install new slip base, foundation anchor bolts and related hardware that are State Furnished items; new conduit and wiring as needed to connect signal assembly to existing signal junction; installing concrete foundation, excavation, compaction and surface restoration and any additional items incidental to installing the pedestrian signal assembly. Item includes removal and disposal of abandoned signal foundation, excavation, potholing, fill material and compaction.. Refer to project signal plans sheets and UDOT Std. Dwg. SL 1E, SL 6A and AT 6.

### **3.53 HIGHWAY LUMINAIRE ASSEMBLY, Bid Item 60**

- A. Measured by each (EA) highway luminaire assembly installed.
- B. This is a City Furnished Item to be installed by the contractor. Payment includes all pick up from state furnished lot and delivered to site, labor, equipment, and materials required for the installation of state furnished materials, including but not limited to furnishing and installing connection hardware to mount luminaire arm and extension, installation of luminaires on signal poles, and associated wiring, conduit, detectable pull tape, installation of the underground service pedestal including furnishing concrete foundation and concrete pad, power source connection, permit fees, flowable fill in trenches, junction boxes, potholing, coordination, and materials necessary to provide a complete and fully operational signal system as shown on the plans. Includes loading and delivery to site all City/State furnished materials. Includes all testing to ensure the signal and signal equipment is operating correctly. Includes RMP power source connection fees, estimated at \$5,000 per power source. Refer to project signal plans sheets and UDOT Std. Dwg. SL 1A, SL 5A and AT 6.

### **3.54 STREET LIGHTING LUMINAIRES, Bid Item 61**

- A. Measured per luminaire location (EA). Excludes signal luminaires.
- B. Payment includes all labor, equipment, delivery and installation of luminaires, Stinger foundation, wire, coordination, connection to conduit, and materials necessary to

provide a complete and fully operational lighting system at a single location. Luminaires shall be in accordance with Ogden City Engineering Standards and Specifications. Includes all testing to ensure finished luminaire is operating correctly. See Detail Sheet C7.5 of project plans for details.

### **3.55 ELECTRICAL JUNCTION BOX, Bid Item 62**

- A. Measured per system (EA).
- B. Payment includes all labor, equipment, installation, of said junction box in place as detailed in the Ogden City Engineering Standard and Specifications. See Detail Sheet C7.5 of project plans for details.

### **3.56 1-1/2-INCH CONDUIT AND WIRE, Bid Item 63**

- A. Measured per linear foot of conduit (LF).
- B. Payment includes all labor, equipment, installation, wiring, 2-inch conduit, detectable pull tape, trenching (or boring/hand digging), fill, flowable fill, and materials necessary for finished conduit and wiring in place as detailed in the plans and Ogden City Engineering Standard and Specifications.

### **3.57 RELOCATE LIGHTED SIGN, Bid Item 64**

- A. Measured per each sign (EA).
- B. Payment includes all work incidental to the removal and relocation of existing sign, including but not limited to the post, power conduit and hardware, and concrete foundation.
- C. As part of this bid item, contractor shall restore and return "in like kind" and in better or equal condition, the area impacted as a result of the sign relocation.

### **3.58 TOPSOIL, Bid Item 65**

- A. Measured by cubic yard of topsoil placed (CY).
- B. Payment includes all labor, materials, equipment, and transportation necessary to furnish and install the 4" depth of topsoil as specified in the plans and specifications. Fine grading to prepare the ground for the topsoil is considered incidental to this item.

### **3.59 TURF GRASS, Bid Item 66**

- A. Measured by square foot of turf grass placed (SF).
- B. Payment includes all labor, materials, equipment, and transportation necessary to furnish and install the sod. Fine grading to prepare the ground for the turf grass is considered incidental to this item.

### **3.60 LANDSCAPING ROCK WITH GEOTEXTILE FABRIC, Bid Item 67**

- A. Measured by cubic yard of rock placed (CY).

- B. Payment includes all labor, materials, equipment, and transportation necessary to furnish and install the 2" Perma-Bark from Staker Parson or approved equal with geotextile fabric. Fine grading to prepare the ground for the weed geotextile fabric is considered incidental to this item. Item includes installing the rock on the geotextile fabric to comply with project plans and specifications.

### **3.61 LANDSCAPE REPAIR, Bid Item 68**

- A. Measured by square foot of landscape repair (SF).
- B. Payment includes all materials and workmanship to restore the landscaping back to pre-construction conditions under the direction of the ENGINEER. Includes, but is not limited to: topsoil, native seed, sod, sprinkler repairs, bark mulch, landscape rock, small shrubs, as necessary to restore to preconstruction conditions.
- C. Item is to be measured for landscape area restoration that was not paid for in separate bid item.

END OF DOCUMENT

# OGDEN CITY

## NORTH STREET ROADWAY IMPROVEMENTS SR 204 (WALL AVENUE) TO US 89 (HARRISVILLE ROAD) OGDEN, UTAH



PROJECT AREA



ENGINEER:

GARDNER ENGINEERING  
1580 W 21ST STREET  
OGDEN, UTAH 84401  
(801) 476-0202  
MIKE DURTCHI  
MIKED@GECIVIL.COM

CITY ENGINEER:

OGDEN CITY  
TAYLOR NIELSEN  
ASSISTANT CITY ENGINEER  
(801) 232-8969

**SHEET INDEX**

- C0.1 - COVER SHEET
- C0.2 - GENERAL CONSTRUCTION NOTES
- C1.1 - DEMOLITION PLAN
- C1.2 - DEMOLITION PLAN
- C1.3 - DEMOLITION PLAN
- C2.1 - HORIZONTAL CONTROL
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- C3.1 - ROADWAY - PLAN AND PROFILE
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Date: 12/9/2022	Revisions
Scale: (AS NOTED)	
Designed: MDD	
Drafted: MDD	
Checked: TMN	

## GENERAL NOTES

- ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE CITY ENGINEER, PLANNING, CODES AND SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE DESIGNATED PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH OGDEN CITY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE.
- THE CONTRACTOR SHALL HAVE ONE (1) COPY OF APPROVED PLANS, AND ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT DRAWINGS ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO THE CITY INSPECTOR AT ALL TIMES.
- THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

## GENERAL GRADING NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APWA STANDARDS AND SPECIFICATION FOR PUBLIC WORKS AND THE CITY STANDARDS. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS AND ENTRIES. FINISHED GRADE AT FOUNDATION FOR WOOD FRAMED STRUCTURES SHALL BE 8 INCHES BELOW TOP OF FOUNDATION AND DRAINAGE SHALL BE A MINIMUM OF 5% WITHIN 10 FEET FROM THE BUILDING.
- MAXIMUM SLOPES SHALL BE 3:1 FOR CUT AND FILL UNLESS OTHERWISE NOTED.
- COMPACTION REQUIREMENTS AND TESTING SHALL BE PERFORMED TO MEET OGDEN CITY STANDARDS.
- NO FILL SHALL BE PLACED UNTIL VEGETATION HAS BEEN REMOVED AND SUB-GRADE PREPARED PER THE SOILS REPORT.
- DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
- CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN BY INSTALLING BMP'S PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES. CONTACT THE OGDEN CITY INSPECTOR FOR INSPECTION.
- ALL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ALL SUBSEQUENT REPORTS, ADDENDUM ETC. SHALL BE CONSIDERED A PART OF THIS GRADING PLAN AND SHALL BE COMPLIED WITH.
- THE CONTRACTOR SHALL CONTACT BLUE STAKES FOR LOCATION MARKING PRIOR TO COMMENCING EXCAVATION ACTIVITIES.
- OGDEN CITY WILL REQUIRE A PRE-CONSTRUCTION MEETING BEFORE A PERMIT IS ISSUED.
- STREETS ADJACENT TO THE PROJECT SHALL BE CLEAN AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR ALL REQUIRED INSPECTIONS.
- PRIOR TO TAKING WATER FROM A CITY FIRE HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH OGDEN CITY WATER TO OBTAIN A WATER METER.

## STORM SEWER GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
  - TO OBTAIN ALL REQUIRED PERMITS FROM OGDEN CITY AND UDOT, INCLUDING PERMITS TO WORK IN THE RIGHT-OF-WAY.
  - RESTORATION OF EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FENCES, SOD, LANDSCAPING, PAVEMENT, SPRINKLER SYSTEM.
  - VERIFICATION AND PROTECTION OF ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION.
  - PROVIDING AS-BUILT REDLINE DRAWINGS TO OGDEN CITY AND THE ENGINEER.
  - ALL PERMITTING, DEVELOPMENT, LOCATION, CONNECTION AND INSPECTION AND SCHEDULING FOR SUCH.
- ALL STORM SEWER CONNECTIONS SHALL BE IN CONFORMANCE WITH OGDEN CITY STANDARDS AND SPECIFICATIONS.
- RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT, AND STEEL SHIMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH OGDEN CITY STANDARDS AND SPECIFICATIONS AND PLANS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO PLACEMENT OF ASPHALT PAVING.
- COMPACTATION OF ALL TRENCHES WITHIN THE PROJECT SITE MUST BE ATTAINED AND COMPACTION RESULTS SUBMITTED TO THE ENGINEER AND OGDEN CITY PRIOR TO FINAL ACCEPTANCE.
- ALL STORM DRAIN PIPES IN THE OGDEN CITY RIGHT-OF-WAY SHALL BE RCP CLASS SHALL BE NOTED.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. ALL STORM SEWER LIDS SHALL BE LABELED "STORM DRAIN".
- WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY OWNER/ENGINEER IF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.

## SANITARY SEWER GENERAL NOTES

- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY STANDARDS AND SPECIFICATIONS.
- ALL GRAVITY SANITARY SEWER LINES SHALL BE SDR-35 PVC MATERIAL. SEWER LINE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ASTM STANDARDS AND SPECIFICATIONS.
- DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT.
- RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT AND STEEL SHIMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE.
- ALL SANITARY SEWER MAIN TESTING SHALL BE IN ACCORDANCE WITH OGDEN CITY STANDARDS AND SPECIFICATIONS. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE PUBLIC WORKS SANITARY SEWER DEPARTMENT HEAD PRIOR TO FINAL ACCEPTANCE.
- COMPACTATION TESTING OF ALL TRENCHES WITH THE PROJECT SITE MUST BE ATTAINED AND RESULTS SUBMITTED TO THE OGDEN CITY ENGINEER PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING STRUCTURES AND IMPROVEMENTS DURING INSTALLATION OF SANITARY SEWER LINE.
- WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY OWNER/ENGINEER IF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.
- CAMERA TESTING AND AIR TESTING PER OGDEN CITY STANDARD.

## CULINARY WATER GENERAL NOTES

- ALL INSTALLATION AND MATERIALS SHALL CONFORM TO OGDEN CITY STANDARDS, SPECIFICATIONS AND PLANS.
- JOINT RESTRAINTS OR THRUST BLOCKING, WHEN USING THRUST BLOCKS IS REQUIRED AT ALL BENDS AND FITTINGS. TIE RODS SHALL BE USED AT ALL BENDS AND FITTINGS WHERE THRUST BLOCKS DO NOT BEAR AGAINST UNDISTURBED SOIL.
- ALL WATERLINES AT SEWER CROSSINGS SHALL BE LOCATED ABOVE AND HAVE AN 18-INCH VERTICAL SEPARATION FROM THE SEWER PIPE. IF THIS IS NOT PROVIDED, THE WATERLINE SHALL BE INSTALLED WITH 20 L.F. OF CONCRETE CASING CENTERED OVER THE SEWER PIPE.
- DISINFECTION TESTS SHALL BE PERFORMED BY THE WATER UTILITY WITH COOPERATION FROM THE CONTRACTOR IN PERFORMING ANY NECESSARY EXCAVATION AND SUBSEQUENT BACKFILLING AT NO COST TO OGDEN CITY.
- CHLORINATION OF COMPLETED WATER LINE. THE NEW WATER LINES SHALL BE DISINFECTED BY CHLORINATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RELATED COSTS AND FEES RELATED TO THE CHLORINATION OF THE COMPLETED WATER LINE. THIS TEST SHALL BE PERFORMED PRIOR TO CONNECTION OF THE NEW WATER LINES TO THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE OGDEN CITY AT LEAST 48 HOURS BEFORE THE CHLORINATION IS DESIRED.
- A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET SHALL BE MAINTAINED FROM SANITARY SEWER LINES.
- UNLESS OTHERWISE SPECIFIED, ALL WATERLINES SHALL BE AWWA C900 PVC CLASS 250, PER ASTM D2241.
- CONTRACTOR SHALL LOCATE VALVES PRIOR TO CONNECTION WITH EXISTING SYSTEM, BUT SHALL NOT OPERATE ANY VALVE WITHOUT PERMISSION FROM OGDEN CITY.
- ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
- OGDEN CITY REQUIRES THE USE OF CORROSION RESISTANT MATERIALS FOR ALL CULINARY WATER IMPROVEMENTS. SPECIFICALLY, ROMAC BLUE BOLTS OR STAINLESS STEEL BOLTS MUST BE USED ON ALL FITTINGS. FURTHER, ALL METAL FITTINGS SHALL BE POLY WRAPPED AND GREASED.

## TRAFFIC CONTROL & SAFETY NOTES

- BARRICADING AND DETOURING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CURRENT STATE OF UTAH DEPARTMENT OF TRANSPORTATION MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, AND THE CURRENT OGDEN CITY STANDARD DRAWING, AND SHALL BE APPROVED BY THE OGDEN CITY ENGINEER PRIOR TO ANY WORK.
- NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM THE OGDEN CITY TRAFFIC ENGINEER, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE FOR SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
- DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE OGDEN CITY TRAFFIC ENGINEER FOR REVIEW AND APPROVAL.
- ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF THE OGDEN CITY TRAFFIC ENGINEER.
- TRAFFIC CONTROL DEVICES (TCDs) SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES.

## UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

## NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

## SWPPP GENERAL NOTES

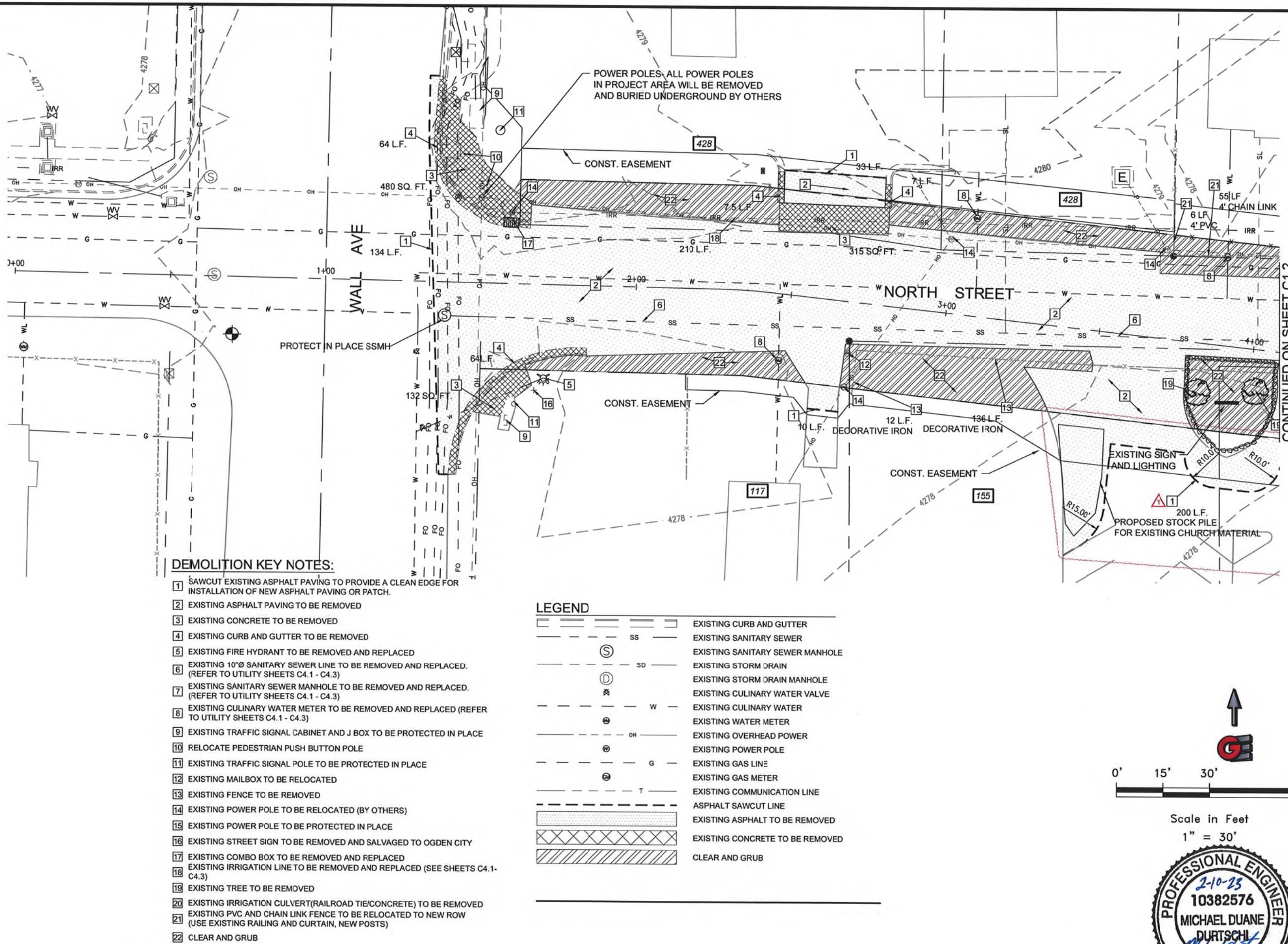
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED BY THE CITY AND STATE.
- ALL STRUCTURAL EROSION MEASURES SHALL BE INSTALLED AS SHOWN ON THE SWPP PLAN, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

## UDOT GENERAL NOTES

- ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD (INCLUDING SUPPLEMENTAL) DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR IS TO OBTAIN AN ENCREACHMENT PERMIT FROM THE APPLICABLE UDOT REGION PERMIT OFFICE PRIOR TO COMMENCING WORK WITHIN UDOT RIGHT-OF-WAY. WORKING HOUR LIMITATIONS WILL BE LISTED IN THE LIMITATIONS SECTION OF THE ENCREACHMENT PERMIT.
- UDOT RESERVES THE RIGHT, AT ITS OPTION, TO INSTALL A RAISED MEDIAN ISLAND OR RESTRICT THE ACCESS TO A RIGHT-IN OR RIGHT-OUT AT ANY TIME.
- OWNER, DEVELOPER, AND CONTRACTOR ARE RESPONSIBLE FOR ANY DAMAGES DIRECTLY OR INDIRECTLY WITHIN THE UDOT RIGHT-OF-WAY AS A RESULT OF DEVELOPMENT ACTIVITIES.
- OWNER, DEVELOPER, AND/OR CONTRACTOR IS REQUIRED TO HIRE AN INDEPENDENT COMPANY FOR ALL TESTING WITHIN THE UDOT RIGHT-OF-WAY.
- ALL SIGNS INSTALLED ON THE UDOT RIGHT-OF-WAY MUST BE HIGH INTENSITY GRADE (TYPE XI SHEETING) WITH A B3 SLIP BASE. INSTALL ALL SIGNS PER UDOT SN SERIES STANDARD DRAWINGS.
- COMPLY WITH THE REQUIREMENTS OF UTAH CODE 17-23-14 (DISTURBED CORNERS - COUNTY SURVEYOR TO BE NOTIFIED -COORDINATION WITH CERTAIN STATE AGENCIES).

GENERAL CONSTRUCTION NOTES		Date: 12/9/2022	Scale: (AS NOTED)	Designed: MDD	Drafted: MDD	Checked: TMN
NORTH STREET	WALL AVE TO HARRISVILLE RD	2/14/2023	1 ADDENDUM 1			
OGDEN CITY, WEBER COUNTY, UTAH						
<b>GARDNER ENGINEERING</b> CIVIL • LAND PLANNING MUNICIPAL • LAND SURVEYING P 801.476.0202 F 801.476.0066						
C0.1						



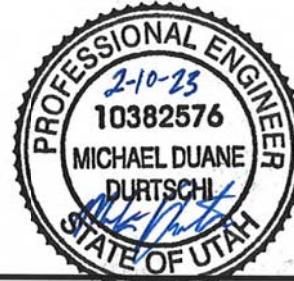


C1.1

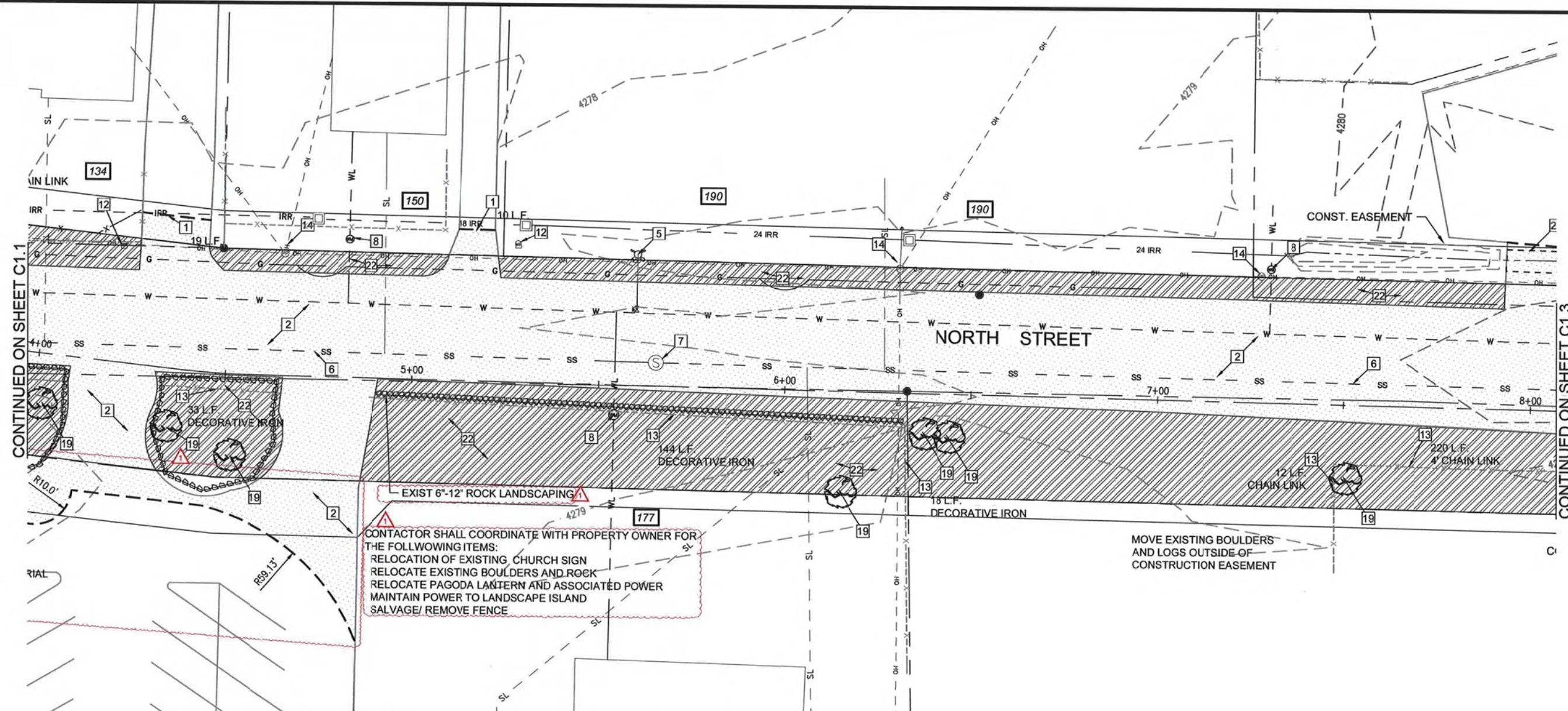
**GARDNER**  
**ENGINEERING**

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MUNICIPAL • LAND SURVEYING

1580 W 2000 S, WEST HAVEN, UT 84066  
P. 801.476.0202 F. 801.476.0066



**DEMOLITION PLAN**  
**NORTH STREET**  
**WALL AVE TO HARRISVILLE RD**  
**OGDEN CITY: WEBER COUNTY, UTAH**



#### LEGEND

	EXISTING CURB AND GUTTER
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM DRAIN
	EXISTING STORM DRAIN MANHOLE
	EXISTING CULINARY WATER
	EXISTING WATER METER
	EXISTING OVERHEAD POWER
	EXISTING POWER POLE
	EXISTING GAS LINE
	EXISTING GAS METER
	EXISTING COMMUNICATION LINE
	ASPHALT SAWCUT LINE
	EXISTING CONCRETE TO BE REMOVED
	CLEAR AND GRUB

0' 15' 30' 60'

Scale in Feet



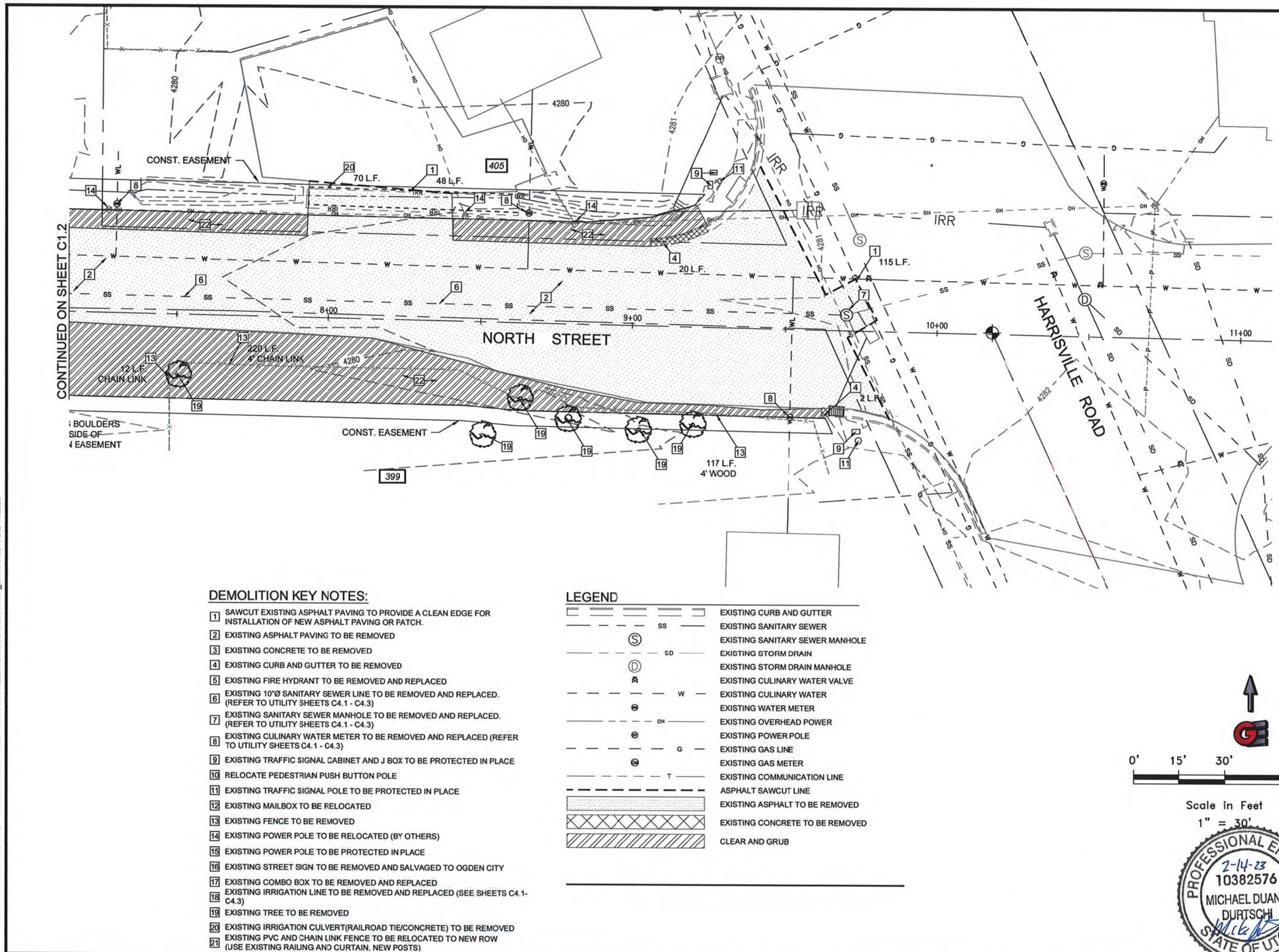
**GARDNER**  
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MUNICIPAL • LAND SURVEYING  
1880 W 2100 S, WEST HAVEN, UT 84045  
P 801.476.0207 F 801.476.0066

C1.2

Date: 12/9/2022	Revisions
Scale: 1" = 30'	Description
Designed: MDD	1 ADDENDUM 1
Drafted: MDD	
Checked: TMN	

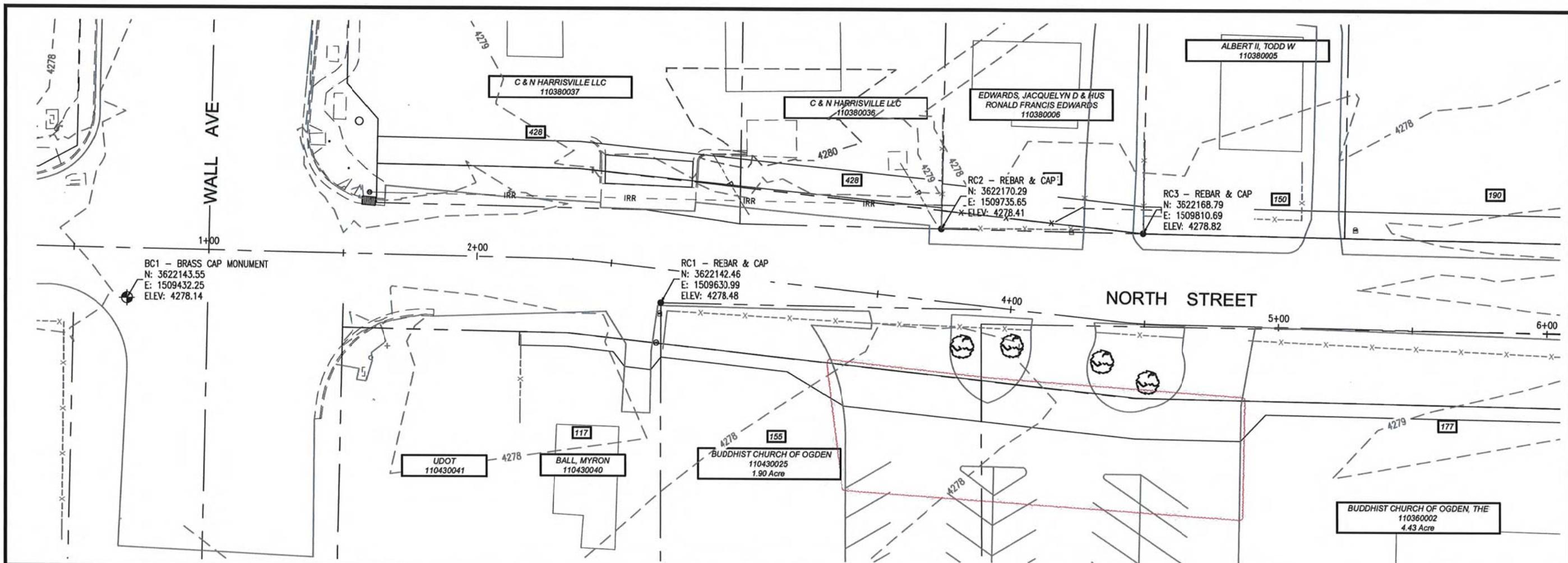
Date: 2/4/2023	Revisions
2/4/2023	Description
	1 ADDENDUM 1

DEMOLITION PLAN	
NORTH STREET	
WALL AVE TO HARRISVILLE RD	
OGDEN CITY, WEBER COUNTY, UTAH	



C1.3





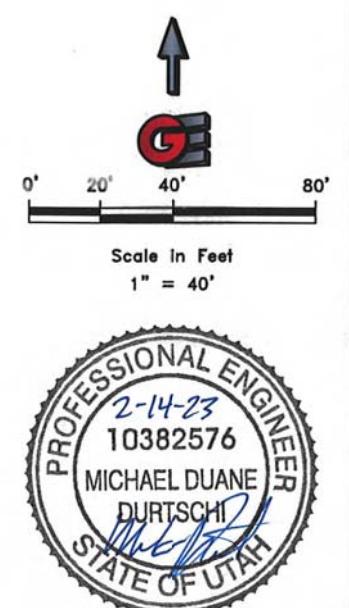
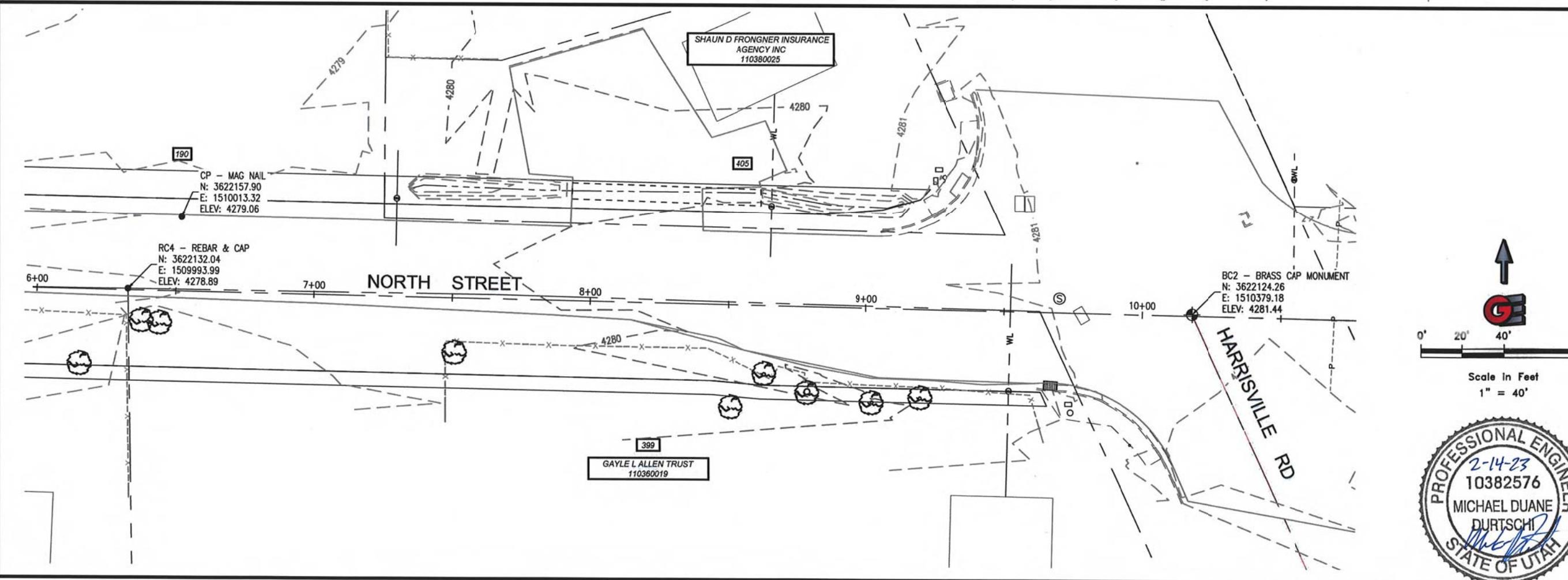
Revisions		Date: 12/9/2022	Date: 12/9/2022
Date	Description	Scale: 1" = 40'	Scale: 1" = 40'
2/14/2023	1 ADDENDUM 1	MDD	MDD
		Checked: TMN	Checked: TMN

**HORIZONTAL CONTROL**

**NORTH STREET**

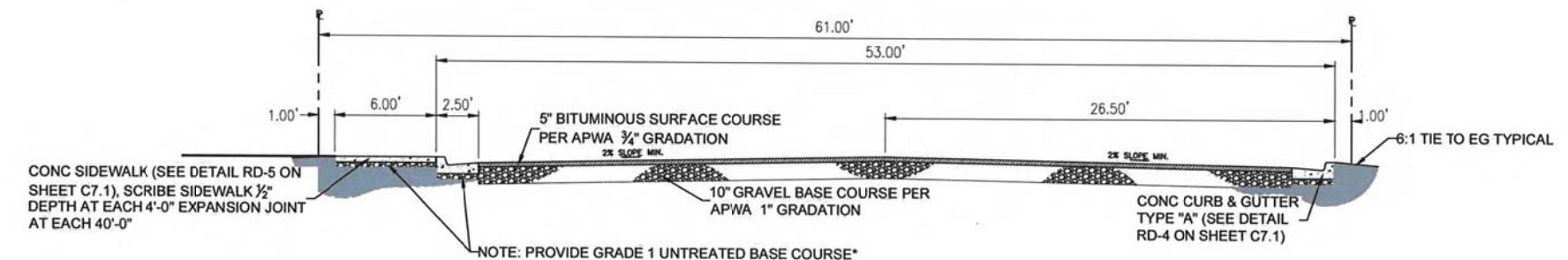
**WALL AVE TO HARRISVILLE RD**

**OGDEN CITY, WEBER COUNTY, UTAH**

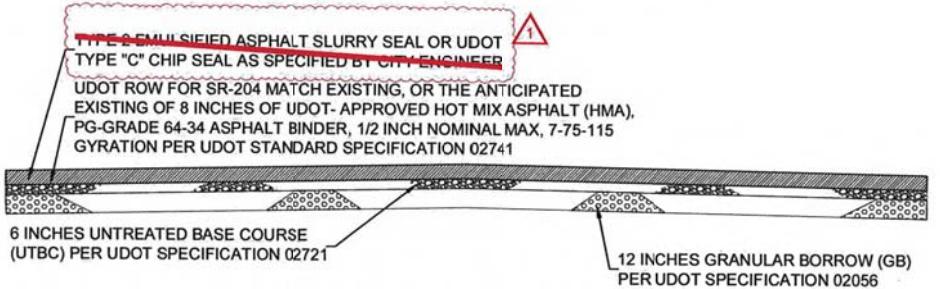


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1850 W 2100 S, WEST HAVEN, UT 84405  
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C2.1

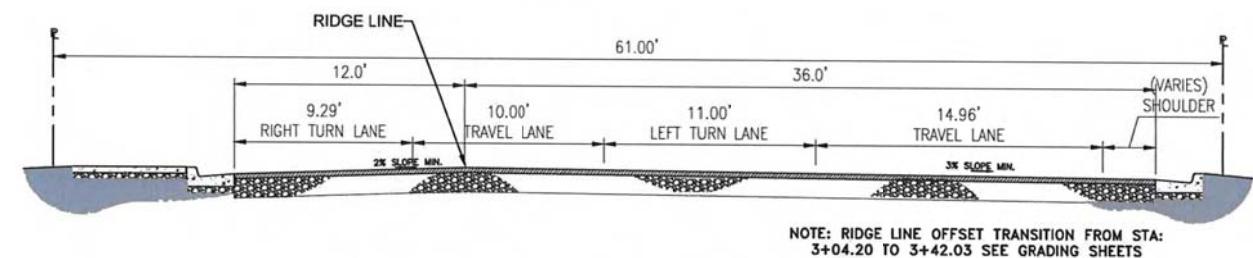


**TYPICAL 61' ROW - NORTH STREET SECTION**  
NOT TO SCALE



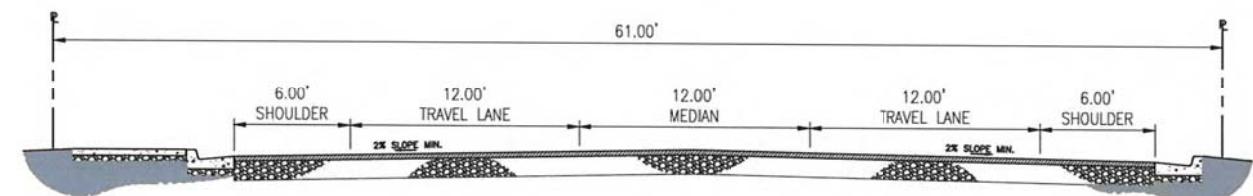
**UDOT ROW - ROAD SECTION**

NOT TO SCALE  
STA: 1+34.51 TO 1+50.00  
STA: 9+60.00 TO 9+80.00



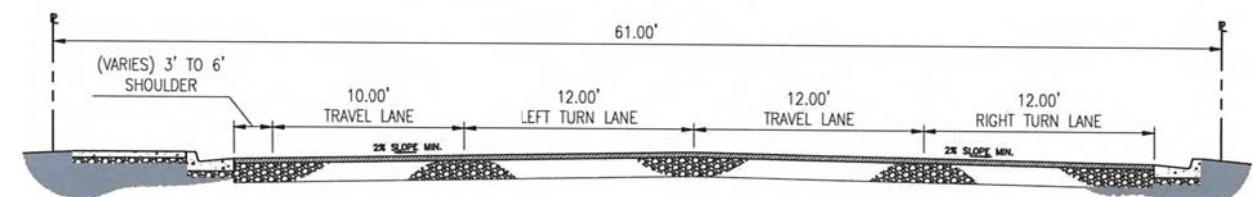
**TYPICAL 61' ROW - NORTH STREET OFFSET SECTION**

STA: 1+61.51 TO 3+04.20  
NOT TO SCALE



**TYPICAL 61' ROW - NORTH STREET SECTION**

STA: 3+81.12 TO 8+14.95  
NOT TO SCALE



**TYPICAL 61' ROW - NORTH STREET SECTION**

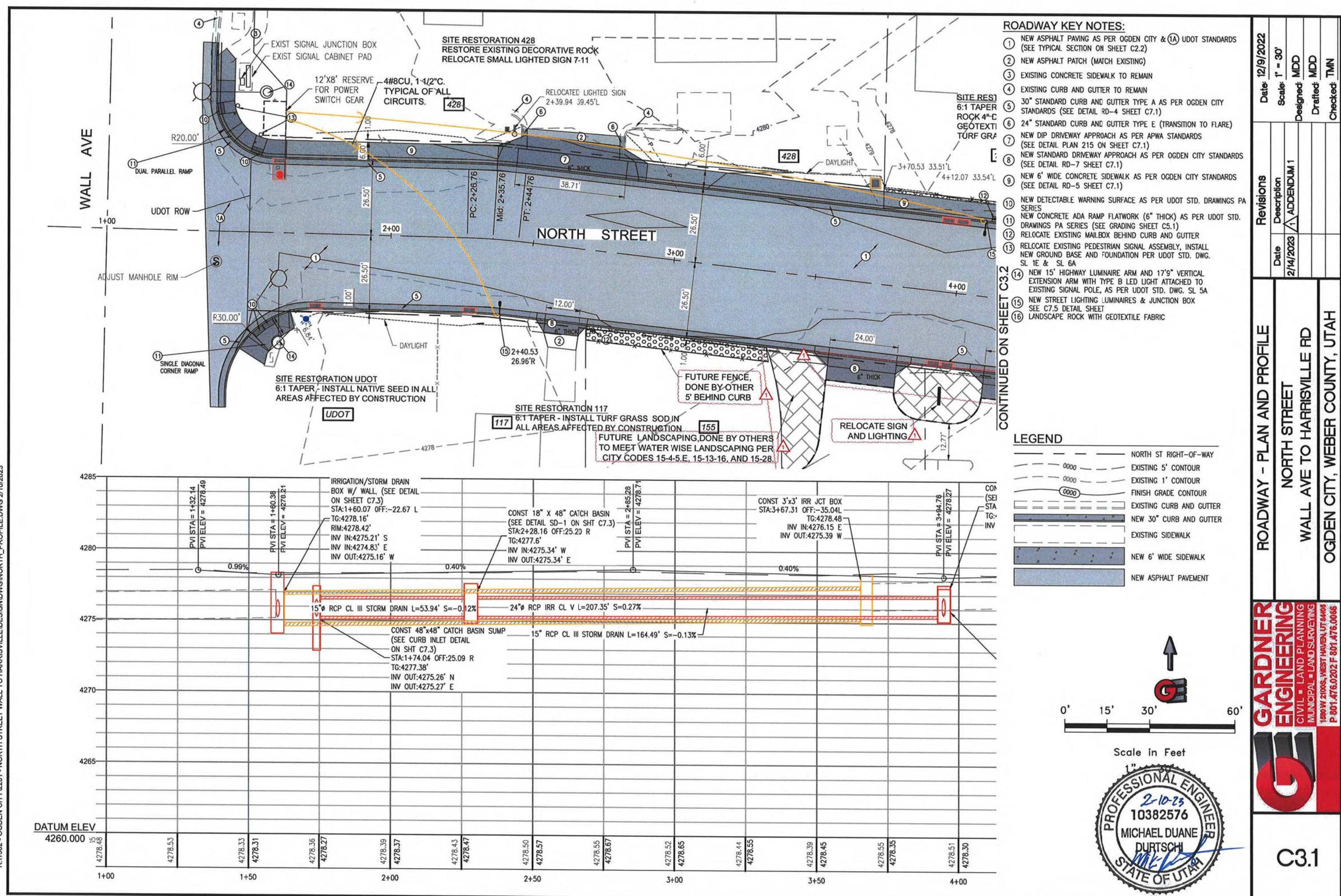
STA: 8+14.95 TO 9+66.51  
NOT TO SCALE



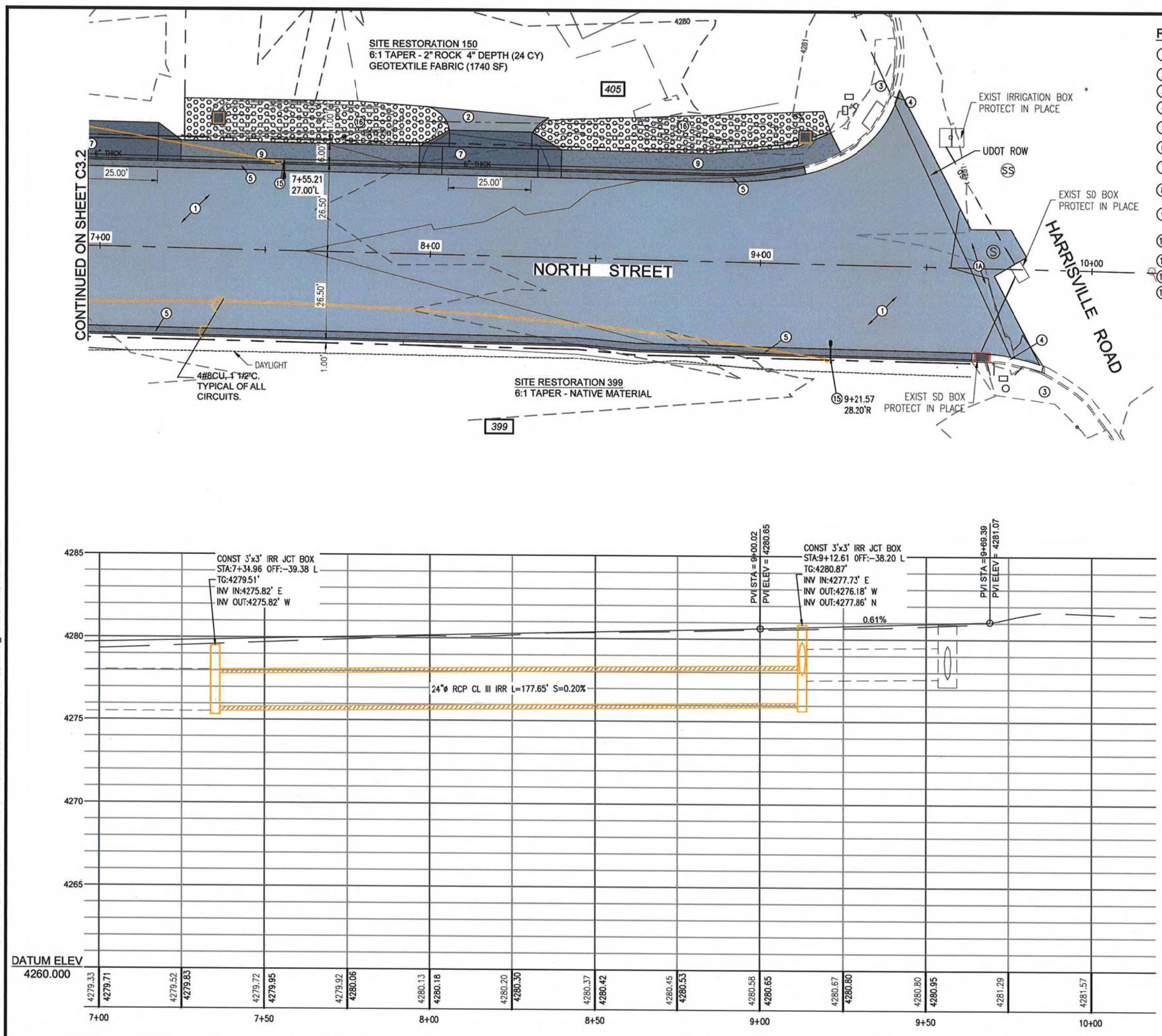
C2.2

ROADWAY SECTIONS	Revisions	Date: 12/9/2022	Scale: (AS NOTED)
ROADWAY SECTIONS	1 ADDENDUM 1	2/14/2023	1 ADDENDUM 1

ROADWAY SECTIONS  
NORTH STREET  
WALL AVE TO HARRISVILLE RD  
OGDEN CITY, WEBER COUNTY, UTAH





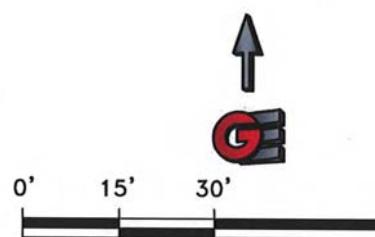
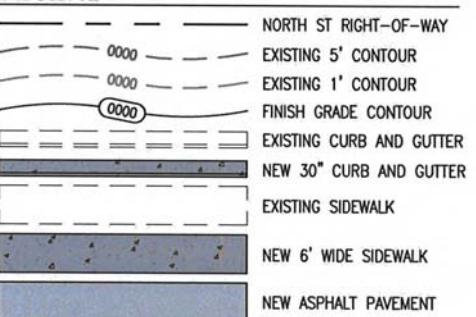


## ROADWAY KEY NOTES:

- ① NEW ASPHALT PAVING AS PER OGDEN CITY & **(1A)** UDOT STANDARDS  
(SEE TYPICAL SECTION ON SHEET C2.2)
- ② NEW ASPHALT PATCH (MATCH EXISTING)
- ③ EXISTING CONCRETE SIDEWALK TO REMAIN
- ④ EXISTING CURB AND GUTTER TO REMAIN
- ⑤ 30" STANDARD CURB AND GUTTER TYPE A AS PER OGDEN CITY STANDARDS (SEE DETAIL RD-4 SHEET C7.1)
- ⑥ 24" STANDARD CURB AND GUTTER TYPE E (TRANSITION TO FLARE)
- ⑦ NEW DIP DRIVEWAY APPROACH AS PER APWA STANDARDS  
(SEE DETAIL PLAN 215 ON SHEET C7.1)
- ⑧ NEW STANDARD DRIVEWAY APPROACH AS PER OGDEN CITY STANDARDS  
(SEE DETAIL RD-7 SHEET C7.1)
- ⑨ NEW 6' WIDE CONCRETE SIDEWALK AS PER OGDEN CITY STANDARDS  
(SEE DETAIL RD-5 SHEET C7.1)
- ⑩ NEW DETECTABLE WARNING SURFACE AS PER UDOT STD. DRAWINGS PA SERIES
- ⑪ NEW CONCRETE ADA RAMP FLATWORK (6" THICK) AS PER UDOT STD. DRAWINGS PA SERIES (SEE GRADING SHEET C5.1)
- ⑫ RELOCATE EXISTING MAILBOX BEHIND CURB AND GUTTER
- ⑬ RELOCATE EXISTING PEDESTRIAN SIGNAL ASSEMBLY, INSTALL NEW GROUND BASE AND FOUNDATION PER UDOT STD. DWG. SL 1E & SL 6A
- ⑭ NEW 15' HIGHWAY LUMINAIRE ARM AND 17'9" VERTICAL EXTENSION ARM WITH TYPE B LED LIGHT ATTACHED TO EXISTING SIGNAL POLE, AS PER UDOT STD. DWG. SL 5A
- ⑮ NEW STREET LIGHTING LUMINAIRES & JUNCTION BOX  
SEE C7.5 DETAIL SHEET
- ⑯ LANDSCAPE ROCK WITH GEOTEXTILE FABRIC

<b>GARDNER</b> <b>ENGINEERING</b> CIVIL • LAND PLANNING MUNICIPAL • LAND SURVEYING 1800 W 2100 S, WEST HAVEN, UT 84409 P 801.476.0202 F 801.476.0096		<b>ROADWAY - PLAN AND PROFILE</b>	
		<b>Revisions</b>	
		Date: 12/9/2022	Date: 12/9/2022
		Scale: 1' = 30'	Scale: 1' = 30'
		Designed: MDD	Designed: MDD
		Drafted: MDD	Drafted: MDD
		Checked: TMN	Checked: TMN
		<b>NORTH STREET</b>	
		<b>WALL AVE TO HARRISVILLE RD</b>	
		<b>OGDEN CITY, WEBER COUNTY, UTAH</b>	

## LEGEND



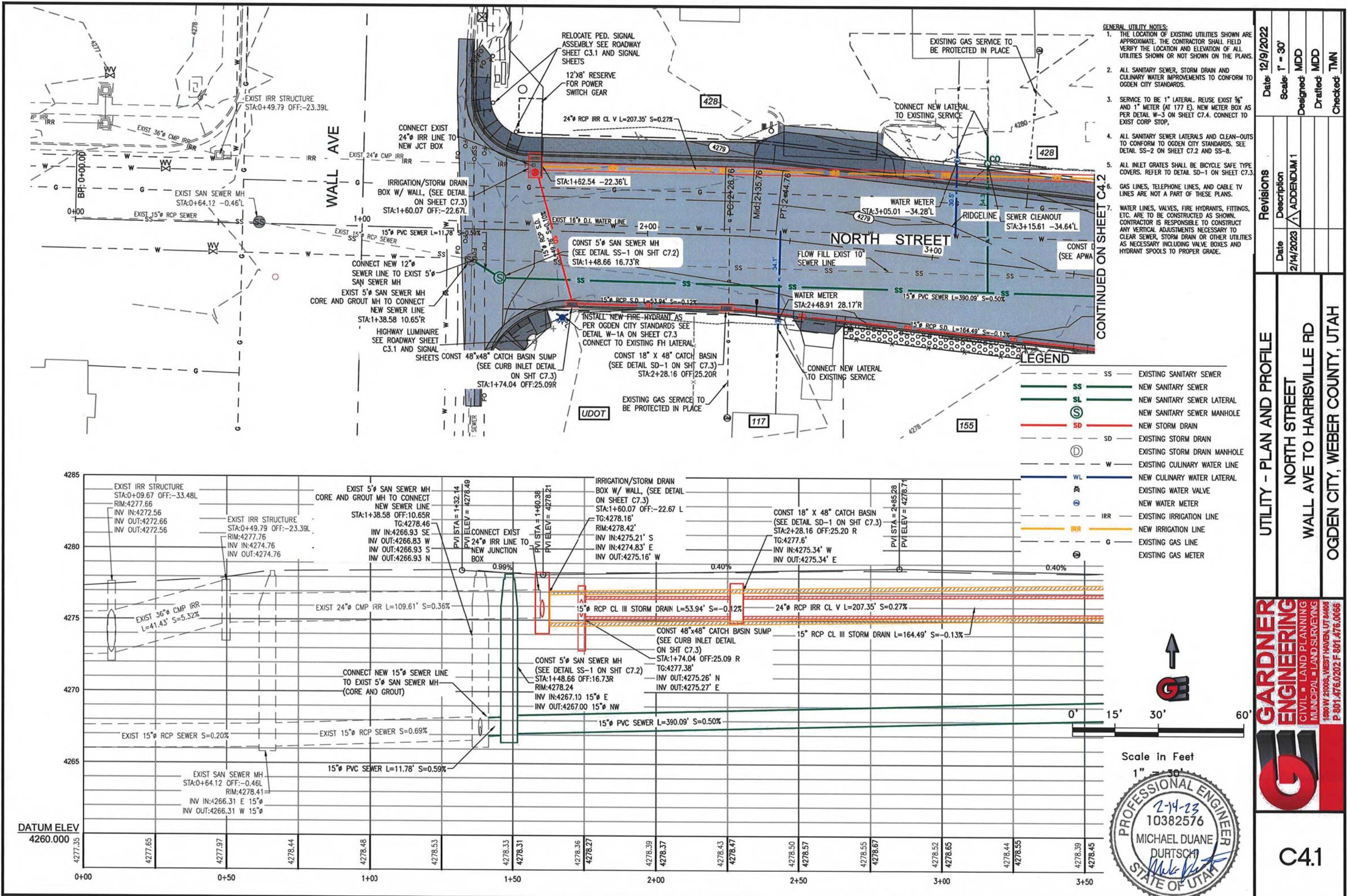
Scale in Feet

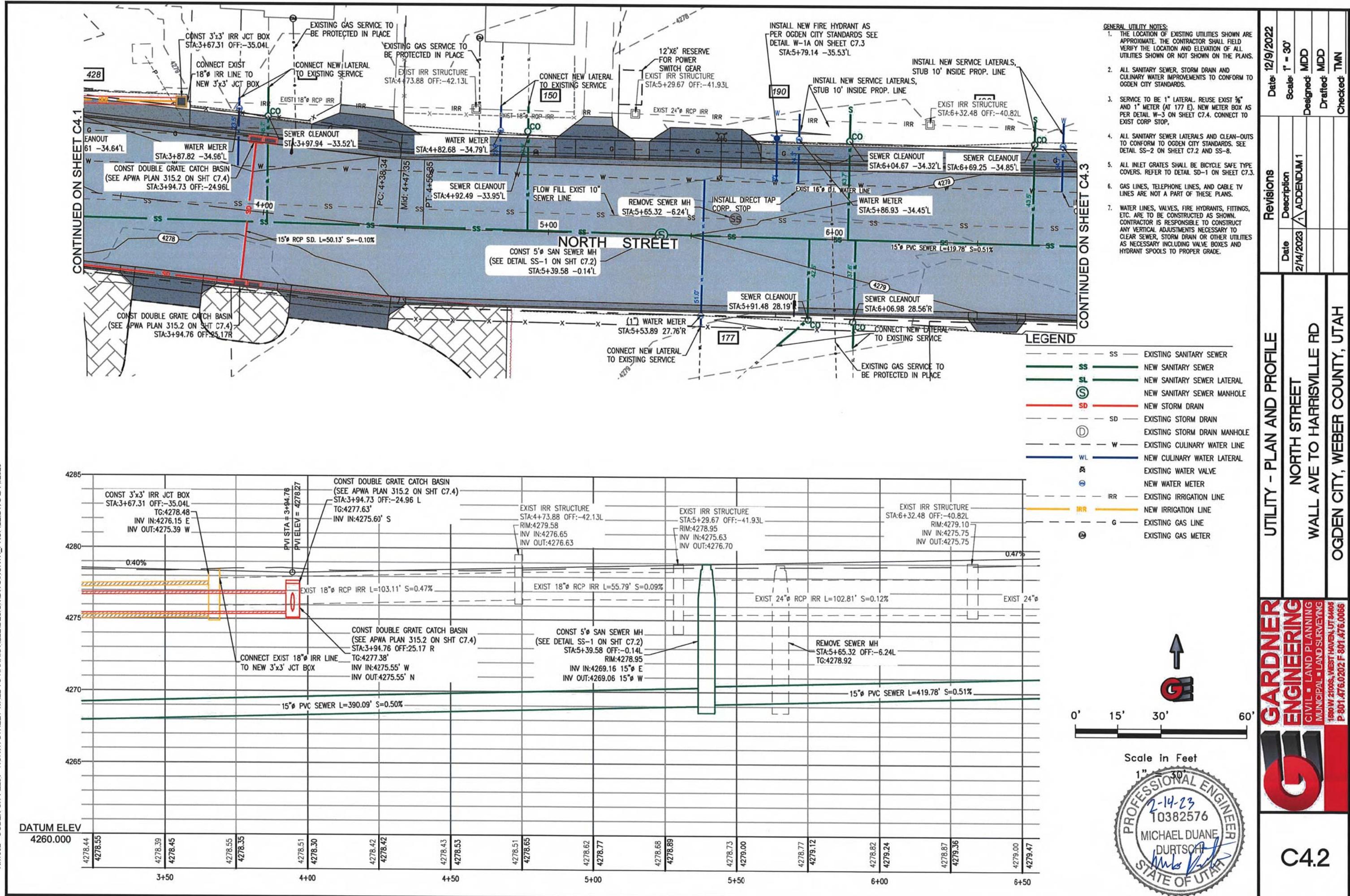
1" = 30'

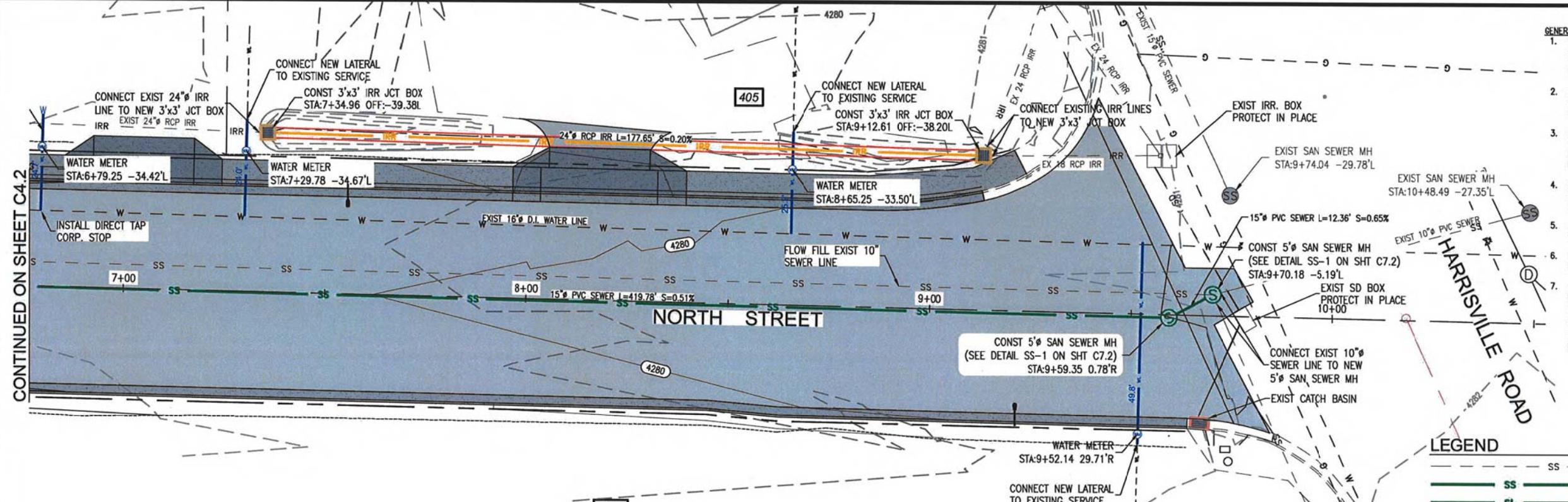
— 2 —



C3.3

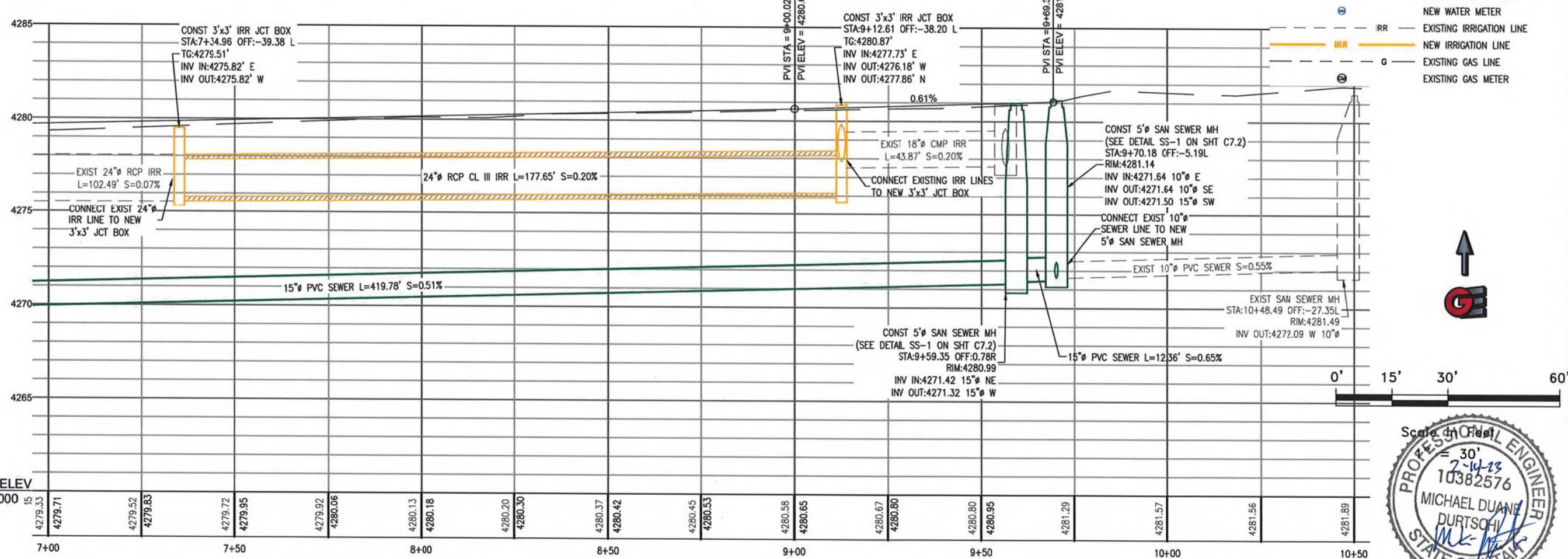






Date: 12/9/2022	Scale: 1" = 30'	Designed: MDD	Drafted: MDD	Checked: TMN
2/14/2023	1 ADDENDUM 1			

Revisions	Date	Description



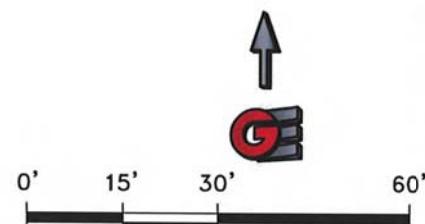


**GENERAL GRADING NOTES:**

1. All work shall be in accordance with Ogden City and /or the Utah Department of Transportation Standards.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Dust shall be controlled by watering.
5. The location and protection of all utilities is the responsibility of the permittee.
6. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project. (See Erosion Control Plans on sheets C8.1 - C8.4)
7. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the Ogden City Inspector.
8. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.+
9. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
10. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
11. Maximum elevation difference between the asphalt surface and the bottom of the concrete curb ramps shall not exceed  $\frac{1}{4}$  vertical or  $\frac{1}{2}$ " when beveled. 2009 ANSI 117.303.502.5.
12. Spot elevations reference a base elevation of 4200 feet.
13. All proposed improvements conform to Ogden City's design and construction standards.

## ABBREVIATIONS

**EOA** - EDGE OF ASPHALT  
**EOC** - EDGE OF CONCRETE  
**FL** - FLOWLINE  
**TA** - TOP OF ASPHALT  
**TBC** - TOP BACK OF CURB  
**TC** - TOP OF CONCRETE  
**TC** - TOP OF CURB



Scale in Feet

1" = 30'



NORTHERN

NORTH STREET  
WALL AVE TO HARRISVILLE RD  
LOGDEN CITY, WEBER COUNTY, UTAH

OGDEN CITY, WEBER COUNTY, UTAH

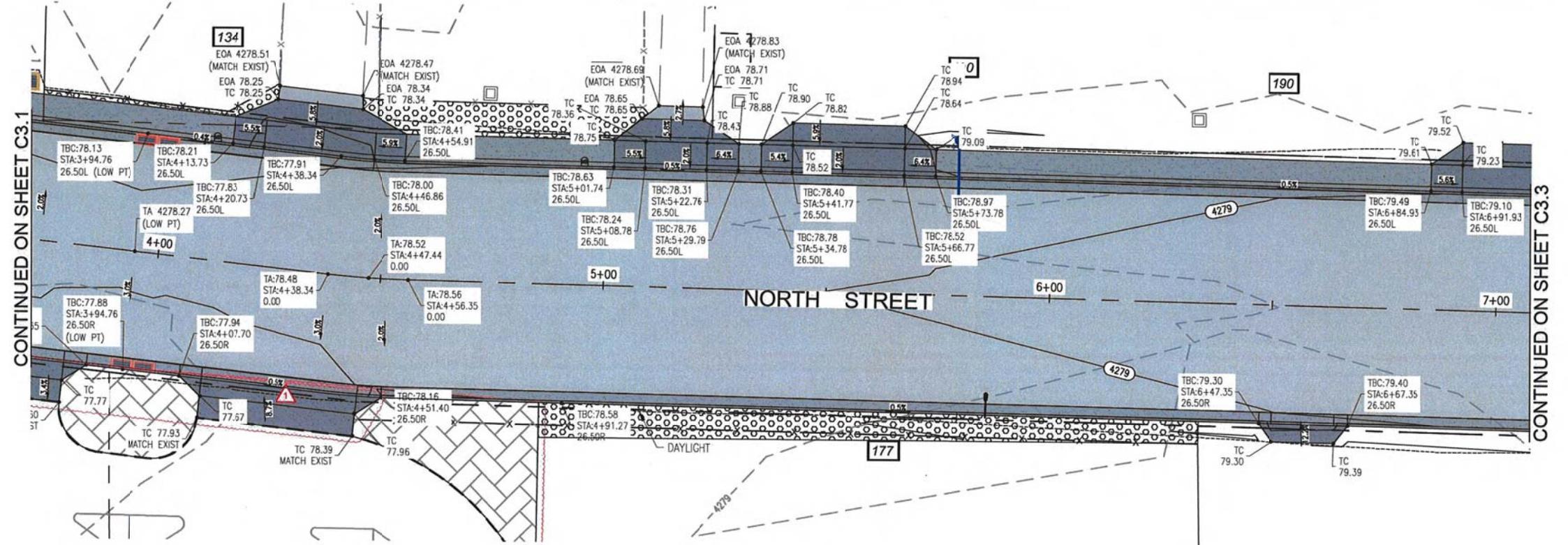
Date	Description	Scale: 1" = 30'
2/14/2023	△ ADDENDUM 1	Designed: MDD
		Drafted: MDD
		Checked: TMN

NORTH STREET		Scale: 1"
WALL AVE TO HARRISVILLE RD		Designed: MD
LOGDEN CITY, WEBER COUNTY, UTAH		Drafted: MD
Date	Description	Checked: TM
2/14/2023	1 ADDENDUM 1	

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**801.476.0202 F 801.476.0066**

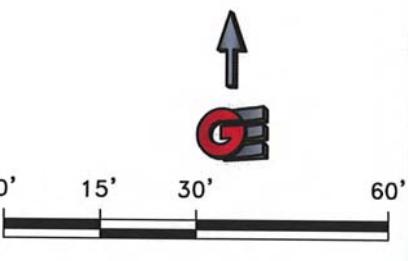
51

C5.1



**GENERAL GRADING NOTES:**

1. All work shall be in accordance with Ogden City and /or the Utah Department of Transportation Standards.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Dust shall be controlled by watering.
5. The location and protection of all utilities is the responsibility of the permittee.
6. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project. (See Erosion Control Plans on sheets C8.1 - C8.4)
7. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the Ogden City Inspector.
8. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.+
9. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
10. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
11. Maximum elevation difference between the asphalt surface and the bottom of the concrete curb ramps shall not exceed  $\frac{1}{4}$ " vertical or  $\frac{1}{2}$ " when beveled. 2009 ANSI 117.303.502.5.
12. Spot elevations reference a base elevation of 4200 feet.
13. All proposed improvements conform to Ogden City's design and construction standards.

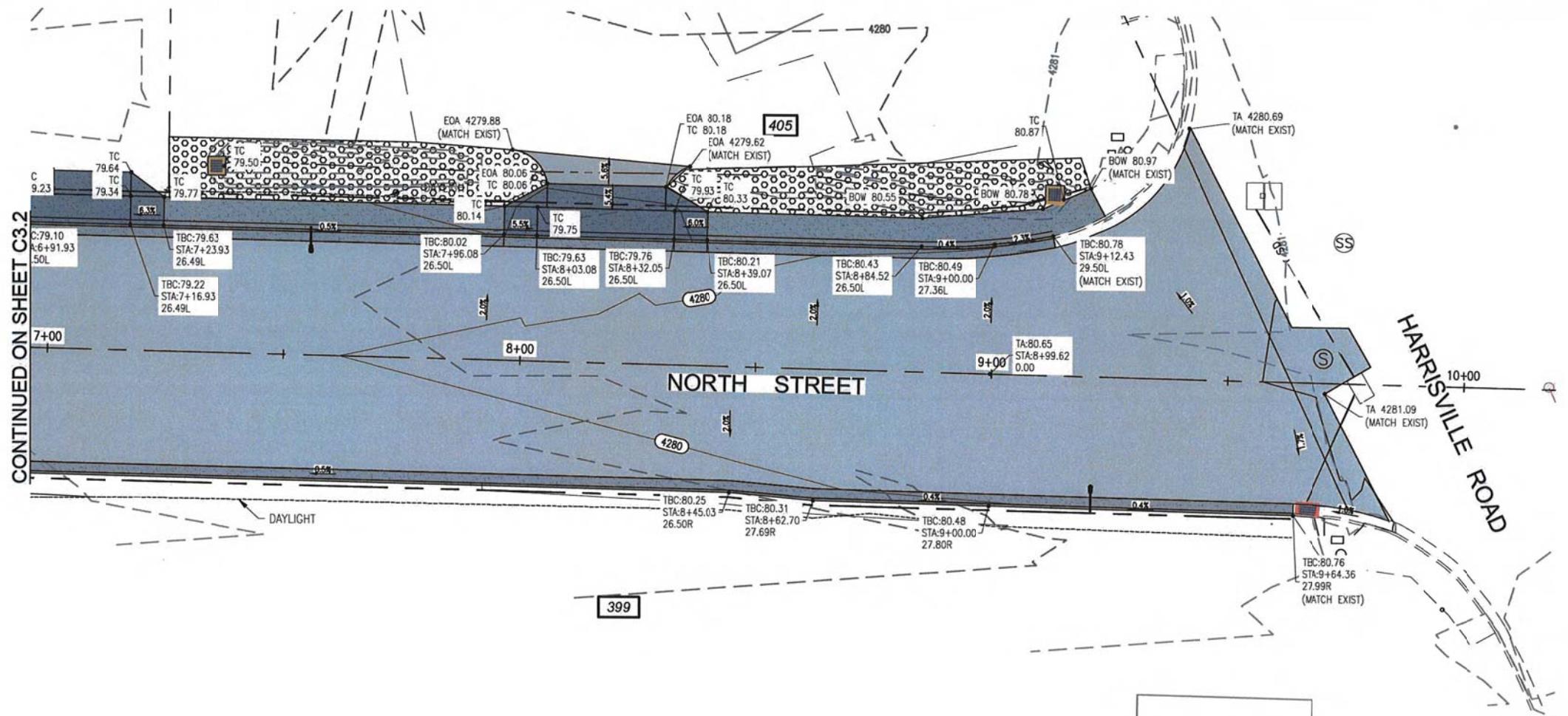


Scale in Feet



**CITADING PLAN**  
NORTH STREET  
WALL AVE TO HARRISVILLE  
OGDEN CITY, WEBER COUNTY

C5.2



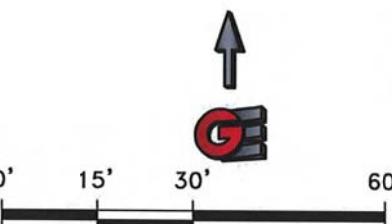
CONTINUED ON SHEET C3.2

## ABBREVIATIONS

EOA	-	EDGE OF ASPHALT
EOC	-	EDGE OF CONCRETE
FL	-	FLOWLINE
TA	-	TOP OF ASPHALT
TBC	-	TOP BACK OF CURB
TC	-	TOP OF CONCRETE
TG	-	TOP OF GRATE

**GENERAL GRADING NOTES:**

1. All work shall be in accordance with Ogden City and/or the Utah Department of Transportation Standards.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
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11. Maximum elevation difference between the asphalt surface and the bottom of the concrete curb ramps shall not exceed  $\frac{1}{4}$ " vertical or  $\frac{1}{2}$ " when beveled. 2009 ANSI 117.303.502.25.
12. Spot elevations reference a base elevation of 4200 feet.
13. All proposed improvements conform to Ogden City's design and construction standards.

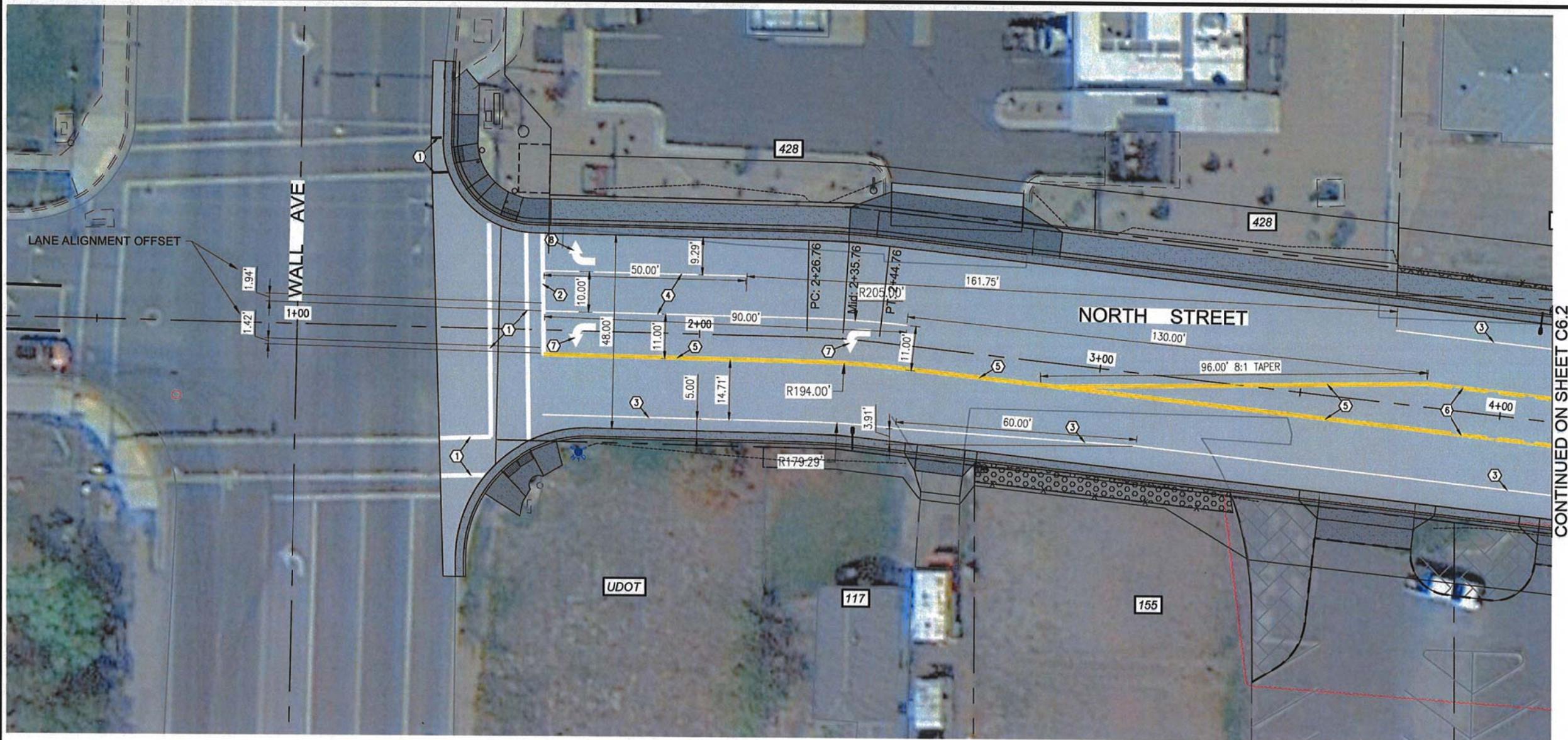


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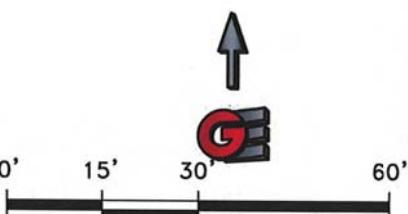
C5.3

GRADING PLAN		Revisions		Date: 12/9/2022
NORTH STREET		Date	Description	Scale: 1' = 30'
		2/14/2023	1 ADDENDUM 1	Designed: MDD
				Drafted: MDD
				Checked: TMN



## STRIPPING KEY NOTES:

- ① 12" SOLID WHITE CROSSWALK
- ② 12" SOLID WHITE STOP BAR
- ③ 4" SOLID WHITE LINE
- ④ 8" SOLID WHITE LINE
- ⑤ 4" DOUBLE SOLID YELLOW LINE
- ⑥ 4" SOLID AND BROKEN YELLOW LINES
- ⑦ LEFT TURN ARROW (TYPE IV)
- ⑧ RIGHT TURN ARROW (TYPE IV)



Scale in Feet  
1" = 30'

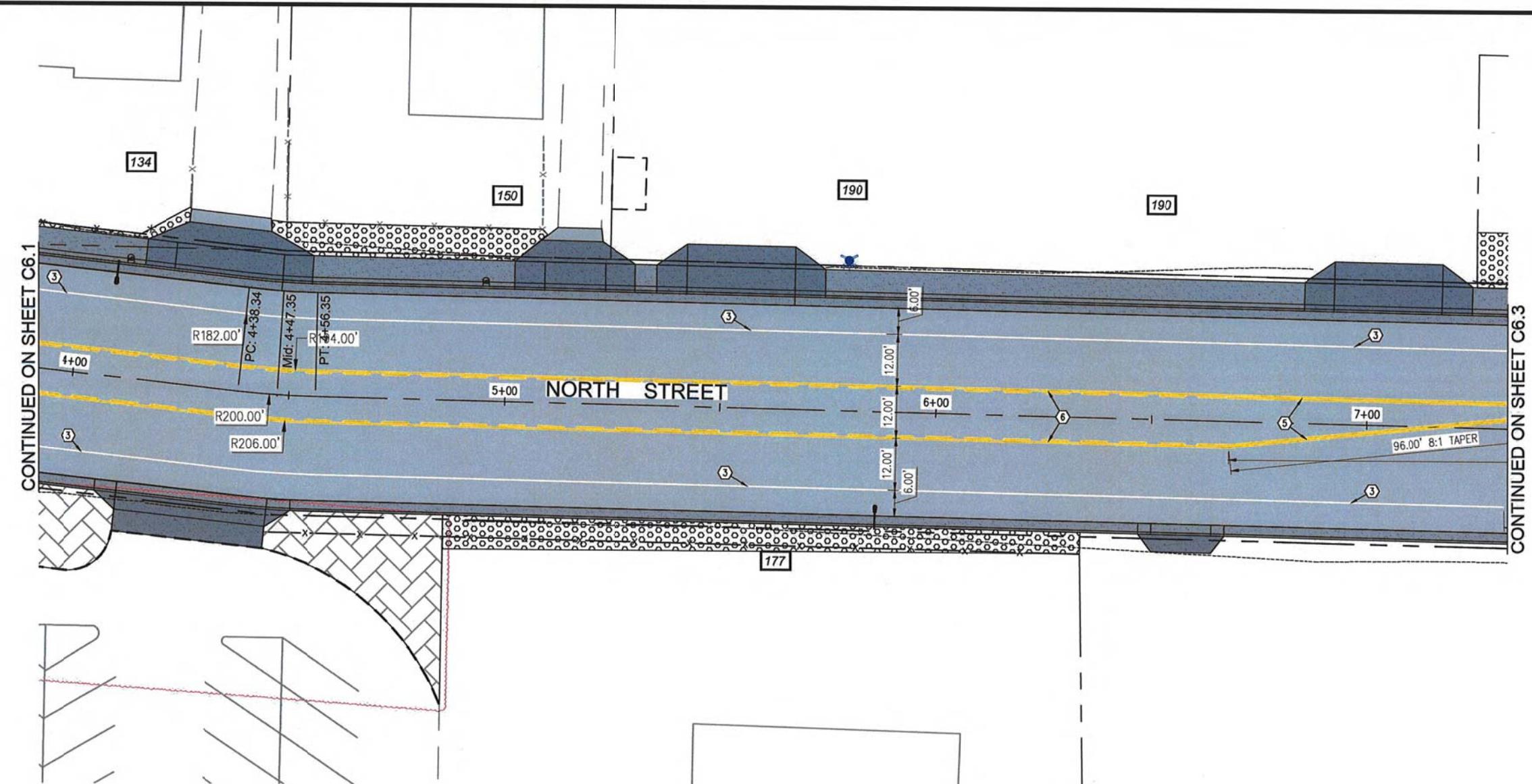


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C6.1

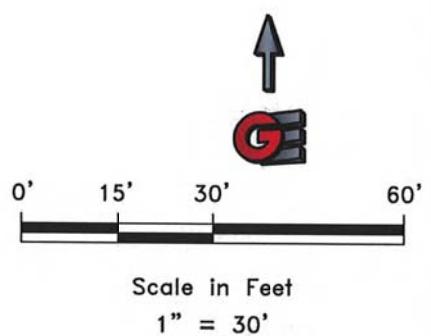
Revisions		Date: 12/9/2022
Date	Description	Scale: 1" = 30'
2/14/2023	1 ADDENDUM 1	Designed: MDD
		Drafted: MDD
		Checked: TMN

**STRIPPING AND SIGNAGE**  
NORTH STREET  
WALL AVE TO HARRISVILLE RD  
OGDEN CITY, WEBER COUNTY, UTAH



STRIPING KEY NOTES:

- ① 12" SOLID WHITE CROSSWALK
- ② 12" SOLID WHITE STOP BAR
- ③ 4" SOLID WHITE LINE
- ④ 8" SOLID WHITE LINE
- ⑤ 4" DOUBLE SOLID YELLOW LINE
- ⑥ 4" SOLID AND BROKEN YELLOW LINES
- ⑦ LEFT TURN ARROW (TYPE IV)
- ⑧ RIGHT TURN ARROW (TYPE IV)



Scale in Feet  
1" = 30'

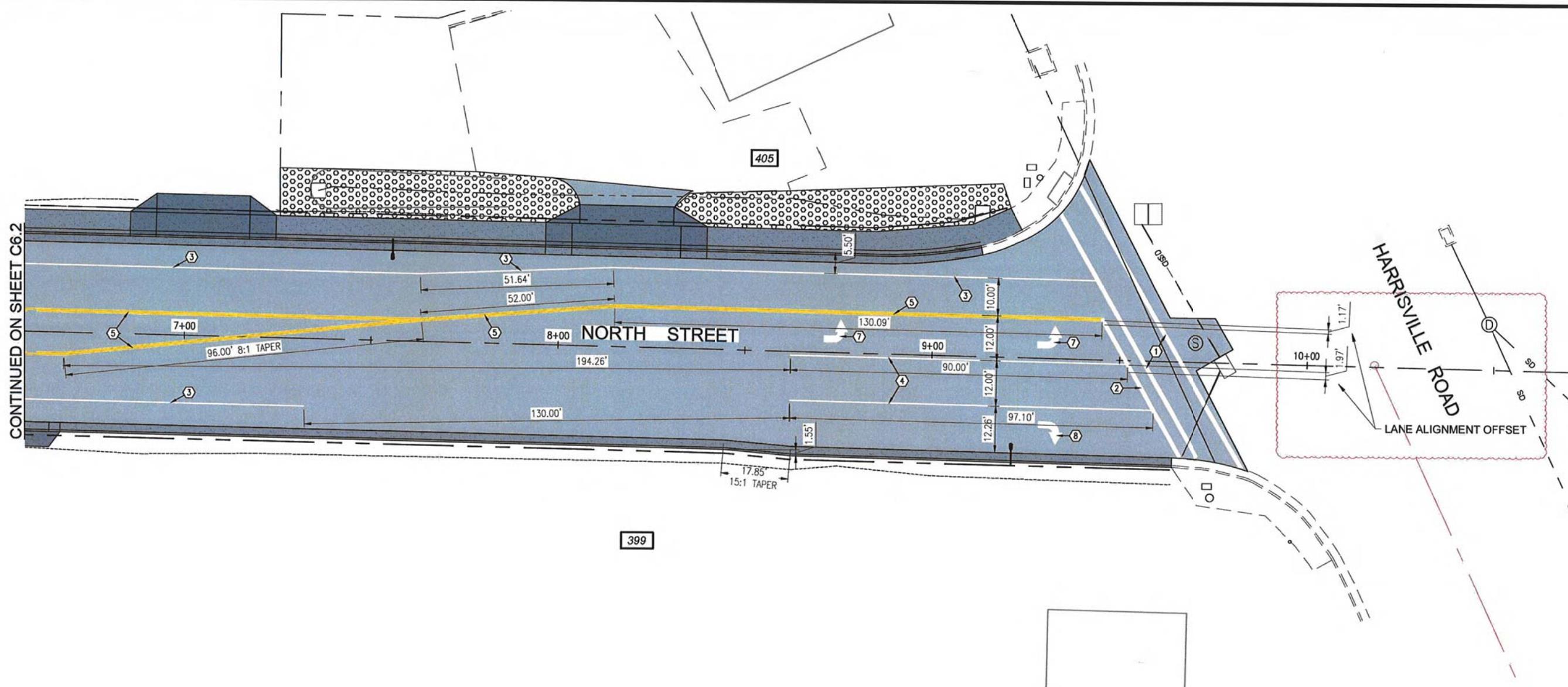
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**C6.2**

STRIPING AND SIGNAGE		Revisions		Date: 12/9/2022
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				Drafted: MDD
				Checked: TMN

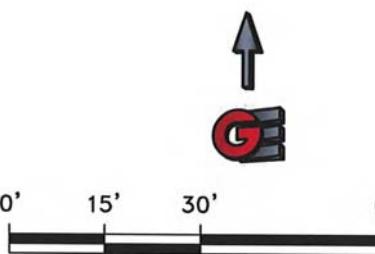
**NORTH STREET**  
**WALL AVE TO HARRISVILLE RD**  
**OGDEN CITY, WEBER COUNTY, UTAH**





## STRIPPING KEY NOTES:

- ① 12" SOLID WHITE CROSSWALK
- ② 12" SOLID WHITE STOP BAR
- ③ 4" SOLID WHITE LINE
- ④ 8" SOLID WHITE LINE
- ⑤ 4" DOUBLE SOLID YELLOW LINE
- ⑥ 4" SOLID AND BROKEN YELLOW LINES
- ⑦ LEFT TURN ARROW (TYPE IV)
- ⑧ RIGHT TURN ARROW (TYPE IV)



### Scale in Feet

" = 30'



C6.3

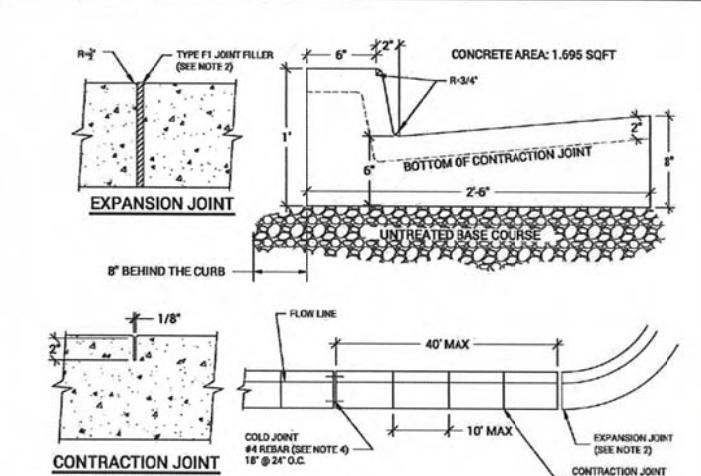
R:\11502 - OGDEN CITY\2201 - NORTH STREET WALL TO HARRISVILLE\DESIGN\DWGINORTH\_PROFILE.DWG 2/14/2023

<b>STRIPPING AND SIGNAGE</b>		Date: <u>12/9/2022</u>
<b>NORTH STREET</b>		Scale: <u>1' = 30'</u>
<b>WALL AVE TO HARRISVILLE RD</b>		Designed: <u>MDD</u>
<b>OGDEN CITY, WEBER COUNTY, UTAH</b>		Drafted: <u>MDD</u>
		Checked: <u>TMN</u>
<b>Revisions</b>		
Date	Description	
<u>2/14/2023</u>	<u>1 ADDENDUM 1</u>	

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**ENGINEERING**

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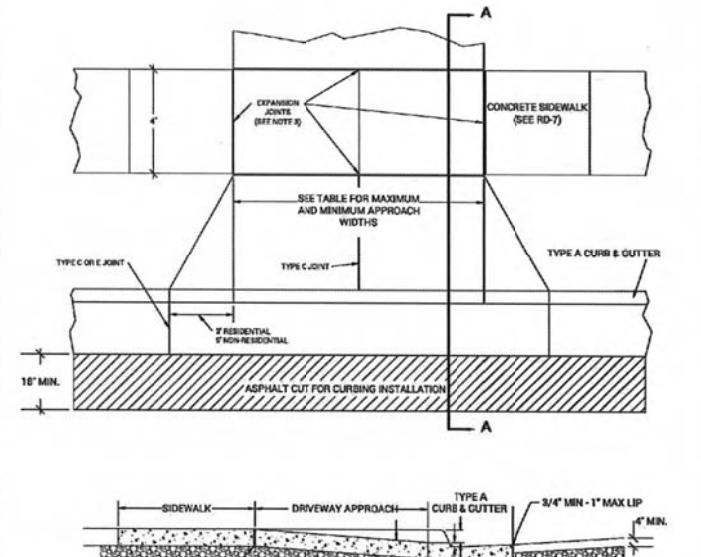
1580 W 2100 S, WEST HAVEN, UT 84045  
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**NOTES:**

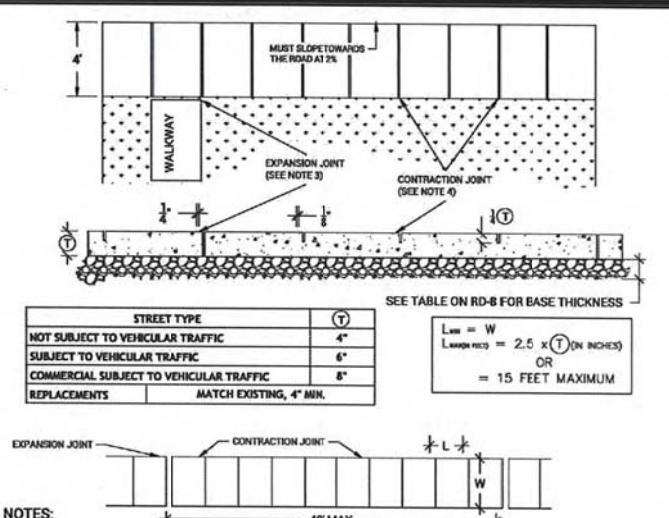
1. BASE COURSE SHALL BE PER APWA SECTION 32 11 23.
- 1.1. EXTEND BASE 8" BEHIND THE CURB AND GUTTER.
- 1.2. IF FLOW LINE IS GREATER THAN 0.5 PERCENT ( $S=0.005$ ), PROVIDE 6" OF COMPAKTED BASE COURSE. IF LESS, PROVIDE 8" OF COMPAKTED BASE COURSE.
- 1.3. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPAKTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPAKTION EQUIPMENT.
2. MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2" WIDE WITH TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73.
- 2.1. SET TOP OF FILLER FLUSH WITH THE CONCRETE.
- 2.2. EXPANSION JOINTS ARE REQUIRED AT THE START OR END OF A STREET INTERSECTION CURB RETURN.
3. MAKE CONTRACTION JOINTS VERTICAL.
- 3.1. 1/8" WIDE AND 2" DEEP OR 1/4 OF THE SLAB THICKNESS IF THE SLAB IS OVER 8" THICK.
4. USE REINFORCEMENT PER ASTM A 615, GRADE 60, GALVANIZED OR EPOXY COATED DEFORMED STEEL. SEE APWA SECTION 03 20 00 REQUIREMENTS.
5. BAG MIX: MARCH - NOVEMBER 6 1/2, DECEMBER - FEBRUARY 7 1/2.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
TYPE A CURB & GUTTER RD-4  
JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1 2020



SIDEWALK, APPROACH, CURB AND GUTTER SECTION A-A

OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
DRIVEWAY APPROACH RD-7  
JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 2 2020



**NOTES:**

1. BASE COURSE: PROVIDE MATERIAL SPECIFIED IN APWA SECTION 32 11 23.
- 1.1. PLACE MATERIAL PER APWA SECTION 32 05 10.
- 1.2. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPAKTION IS 8" WHEN USING RIDING EQUIPMENT AND 6" WHEN USING HAND COMPAKTION EQUIPMENT.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
- 2.1. CONCRETE MUST INCREASE FROM 4" THICK TO 6" FOR RESIDENTIAL DRIVEWAYS AND TO 8" FOR COMMERCIAL DRIVEWAYS.
- 2.2. PLACE CONCRETE PER APWA SECTION 03 30 10.
- 2.3. PROVIDE 1/2" RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
3. EXPANSION JOINT: MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2" WIDE WITH TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73.
- 3.1. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.
- 3.2. EXPANSION JOINTS REQUIRED AT CURB RETURNS, APPROACHES, AND ADJOINING WALKWAYS.
4. CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL. TYPICAL SLAB RATIO IS 1 TO 1.
- 4.1. 1/8" WIDE AND 1" DEEP (OR 1/4 SLAB THICKNESS IF SLAB IS GREATER THAN 4" THICK).
- 4.2. MAXIMUM LENGTH TO WIDTH RATIO FOR NON-SQUARE PANELS IS 1.5 TO 1.
5. BAG MIX: MARCH - NOVEMBER 6 1/2, DECEMBER - FEBRUARY 7 1/2.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
SIDEWALK DETAIL RD-5  
JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1 2020

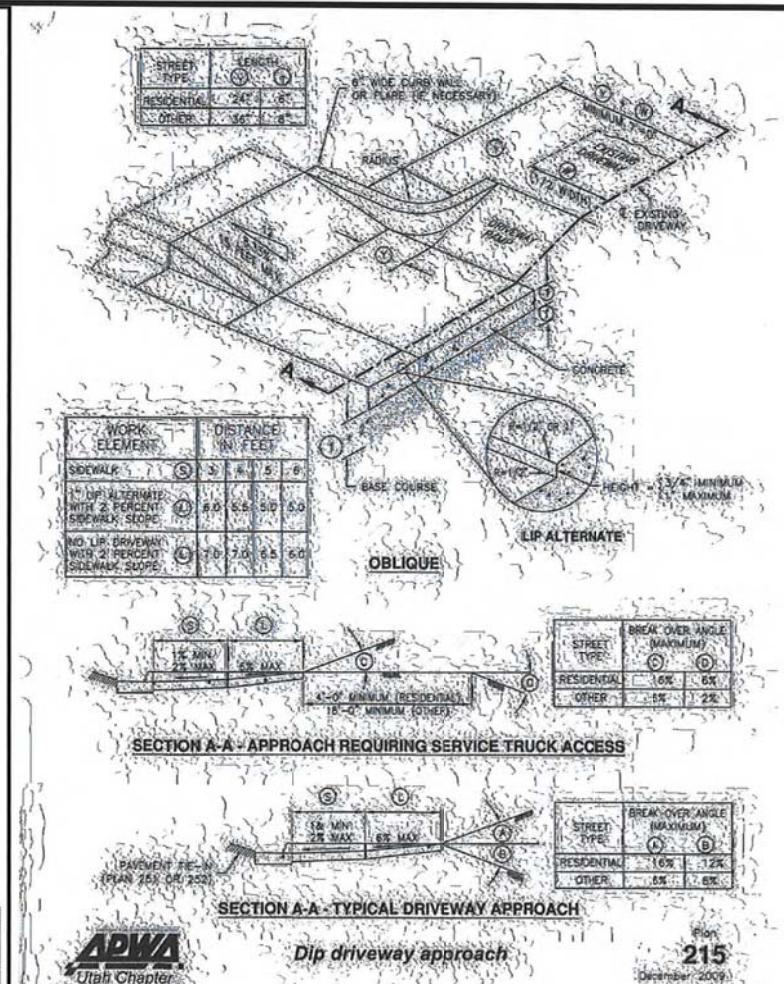
**NOTES:**

1. BASE COURSE: PROVIDE MATERIAL AS PER APWA 32 11 21.
- 1.1. PLACE MATERIAL PER APWA SECTION 32 05 10.
- 1.2. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPAKTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND HELD COMPAKTION EQUIPMENT.
2. CONCRETE SHALL BE CLASS 4000 AS PER APWA 03 30 04.
- 2.1. PROVIDE 1/2" RADIUS ON CONCRETE EDGES EXPOSED TO VIEW.
3. EXPANSION JOINT SHALL BE VERTICAL, FULL DEPTH 1/2" WIDE USE TYPE F1 JOINT FILLER AS PER APWA 32 13 73. SET TOP OF FILLER FLUSH WITH CONCRETE SURFACE.
4. CONTRACTION JOINT SHALL BE VERTICAL.
- 4.1. 1/8" WIDE AND 1" DEEP (OR 1/4 SLAB THICKNESS IF SLAB IS OVER 4").
- 4.2. MAXIMUM LENGTH TO WIDTH RATIO FOR NON-SQUARE PANELS IS 1.5 TO 1.
- 4.3. MAXIMUM PANEL LENGTH (IN FEET) IS 2.5 TIMES THE SLAB THICKNESS (IN INCHES) TO A MAXIMUM OF 15'.
5. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL. SEE APWA SECTION 03 20 00 REQUIREMENTS.
6. BAG MIX: MARCH - NOVEMBER 6 1/2, DECEMBER - FEBRUARY 7 1/2.

	LOTS WITH 1-2 UNITS	LOTS WITH 3-4 UNITS	LOTS WITH OVER 5 UNITS
MINIMUM WIDTH	10'	16'	24'
MAXIMUM WIDTH	32'	32'	35'
* OR 50% OF LOT FRONTAGE (WHICHEVER IS LESS)			

	COMMERCIAL/MANUFACTURING (TRACTOR/TRAILER USE ONLY)	COMMERCIAL/MANUFACTURING (GENERAL USE)
MINIMUM WIDTH	35'	24'
MAXIMUM WIDTH	50'	35'
* SEE SECTION IS-12-11 OF THE OGDEN CITY CODE FOR EXCEPTIONS		

OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
DRIVEWAY APPROACH RD-7  
JUSTIN ANDERSON, CITY ENGINEER SHEET 2 OF 2 2020



SECTION A-A - APPROACH REQUIRING SERVICE TRUCK ACCESS  
SECTION A-A - TYPICAL DRIVEWAY APPROACH  
Dip driveway approach



Plan 215  
December 2009

#### Dip driveway approach

1. **GENERAL**
  - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - B. Additional requirements are specified in APWA Section 32 16 13.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73..
  - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
  - D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
  - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**
  - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - B. Concrete Placement: APWA Section 03 30 10.
    - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
    - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
    - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

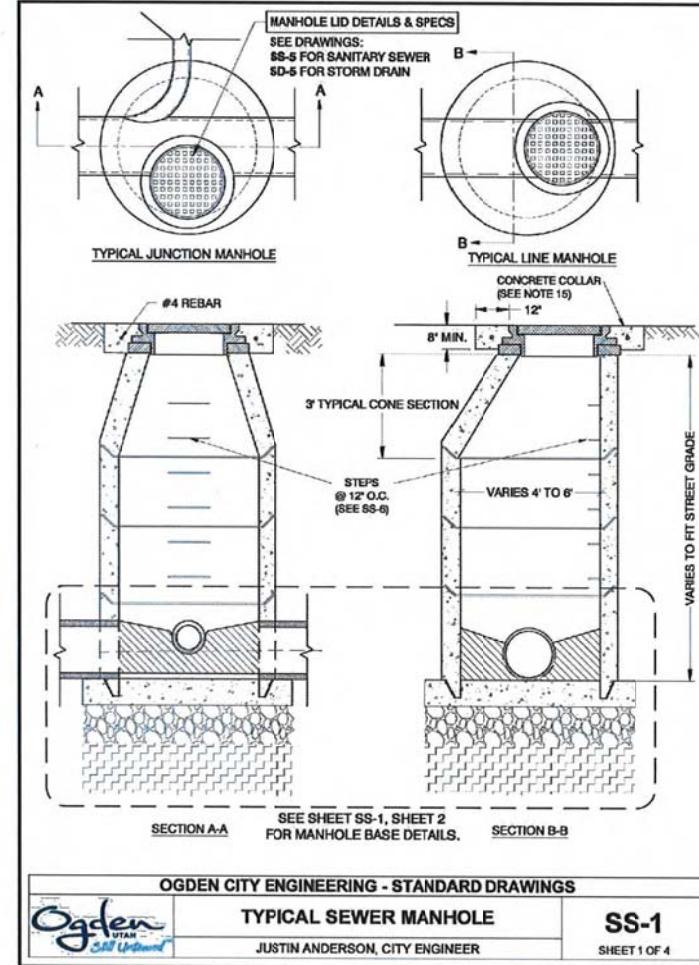


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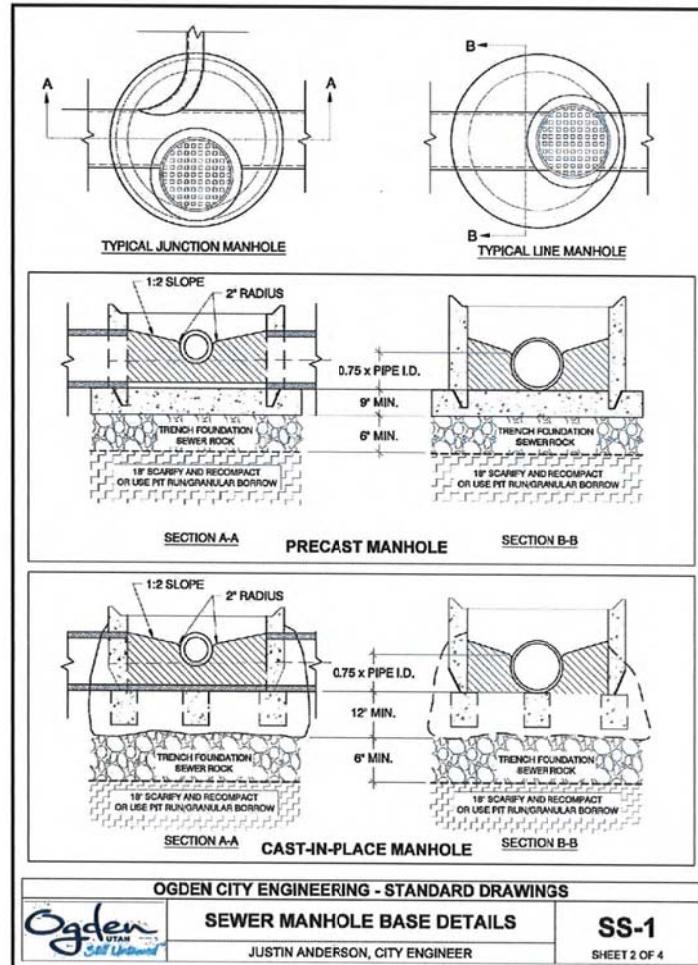
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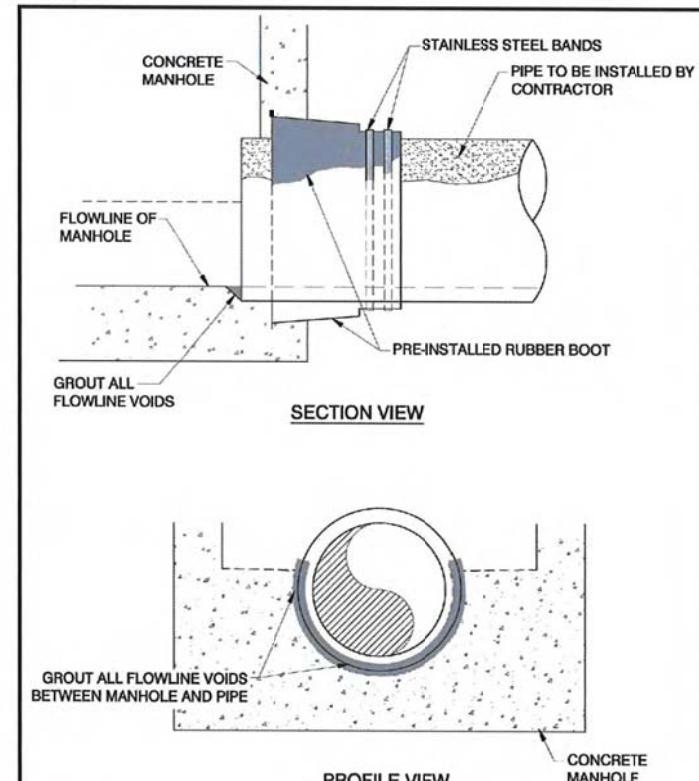
DETAIL SHEET  
NORTH STREET  
WALL AVE TO HARRISVILLE RD  
OGDEN CITY, WEBER COUNTY, UTAH



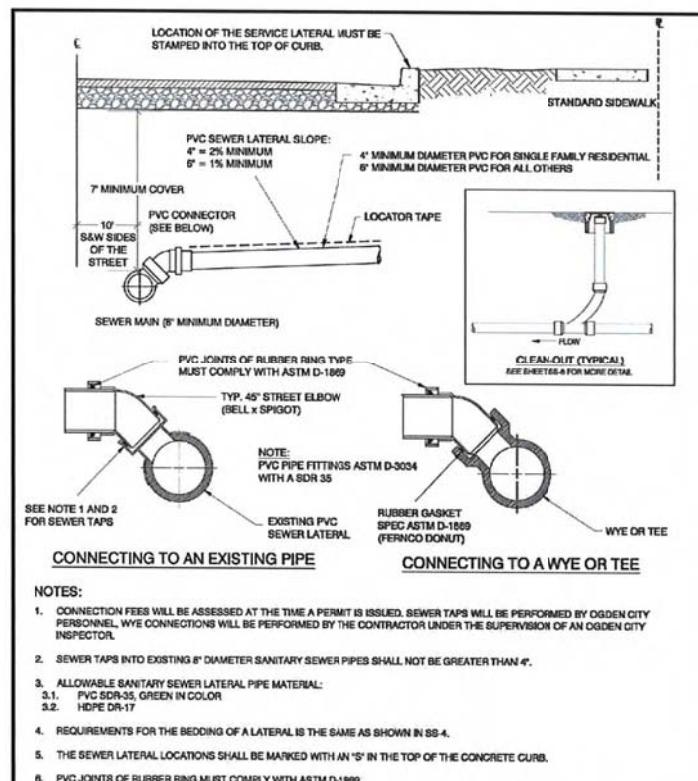
OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
**TYPICAL SEWER MANHOLE** SS-1  
JUSTIN ANDERSON, CITY ENGINEER  
SHEET 1 OF 4



OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
**SEWER MANHOLE BASE DETAILS** SS-1  
JUSTIN ANDERSON, CITY ENGINEER  
SHEET 2 OF 4



OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
**SEWER MANHOLE** SS-1  
JUSTIN ANDERSON, CITY ENGINEER  
SHEET 4 OF 4



OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
**SEWER LATERAL CONNECTION** SS-2  
JUSTIN ANDERSON, CITY ENGINEER  
SHEET 1 OF 1

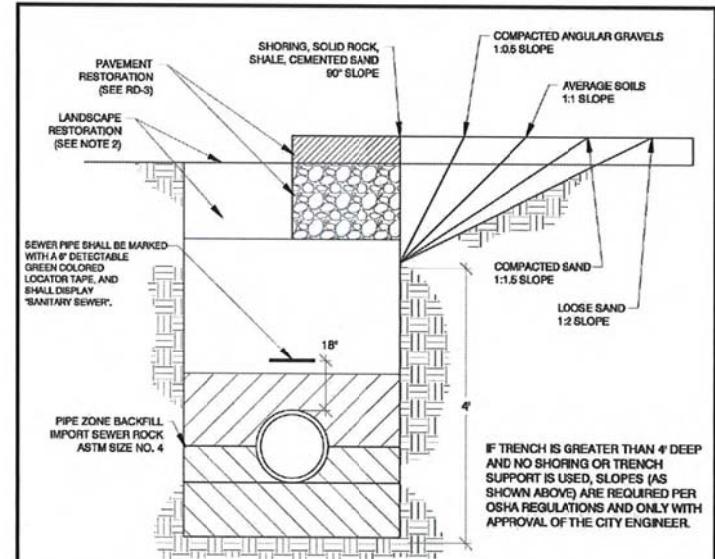
**NOTES:**

1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 26.  
1.1. COMPACT PER APWA SECTION 31 23 26 TO A STANDARD PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
- 1.2. SEWER ROCK SHALL BE PER APWA SECTION 31 05 13.
2. CONCRETE CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA 03 30 10.
3. MANHOLE SIZE:  
3.1. 4" DIAMETER FOR SEWER PIPES UNDER 12" IN DIAMETER AND NOT SUBJECT TO ANY CONDITIONS LISTED FOR THE 5" MANHOLE.
- 3.2. 8" DIAMETER FOR THE FOLLOWING:  
3.2.1. DEFLECTION ANGLE IS GREATER THAN OR EQUAL TO 45°  
3.2.2. WHEN THE MANHOLE HAS THREE OR MORE LINES  
3.2.3. FOR SEWERS WITH A PIPE DIAMETER OF 12" OR GREATER  
3.2.4. WHEN THE COVER IS GREATER THAN 14".
4. SEE SS-5 FOR MANHOLE LID SPECIFICATIONS.
5. OUTLET PIPE TO BE A MINIMUM OF 1" BELOW INLET PIPE FLOW LINES EXCEPT AS NOTED BELOW IN FIG. 1 (BELOW).
6. STEEL FRAMES: USE ASTM A 36 STEEL.
7. LOW PROFILE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
8. REINFORCEMENT: USE ASTM A 615, GRADE 60. REFER TO APWA 03 20 00.  
8.1. CAST IN PLACE REBAR SCHEDULE MUST BE STAMPED BY A STRUCTURAL ENGINEER.
9. COATINGS: EXCEPT MACHINED SURFACES, COAT ALL METAL WITH ASPHALTUM PAINT.
10. GROUT ALL PIPE OPENINGS WITH 2:1 SAND/CEMENT MORTAR.
11. PLACE FLEXIBLE GASKET-TYPE SEALANT IN ALL MANHOLE JOINTS. SEAL MUST MEET THE REQUIREMENTS OF SS-S-00210 (210A), AASHTO M-198, AND ASTM C990.
12. PRECAST REINFORCED CONCRETE WALLS MUST BE 5" THICK.
13. CAST-IN-PLACE CONCRETE WALLS MUST BE A MINIMUM OF 8" THICK.
14. CONTRACTOR SHALL CONTACT SEWER DEPARTMENT PRIOR TO ENTRANCE INTO MANHOLE.  
14.1. ENTRANCE INTO MANHOLE SHALL BE PER OSHA STANDARDS
15. MINIMUM PIPE SLOPE: REFER TO TABLE 1 - MINIMUM SEWER MAIN PIPE SLOPE, OF THE OGDEN CITY ENGINEERING STANDARDS FOR MINIMUM SEWER MAIN PIPE SLOPE.

NORMAL DROPS (IN FEET) STRAIGHT THROUGH MANHOLES AT INVERTS FOR MINIMUM GRADES OR GREATER EXCEPT AS NOTED BELOW				
OUTLET SIZE	8"	10"	12"	15"
8"	0.10	—	—	—
10"	0.17	0.10	—	—
12"	0.33	0.17	0.10	—
15"	0.58	0.42	0.25	CL
18"	0.80	0.71	0.63	0.50

FIGURE 1  
CL INDICATES THE DROP THOUGH THE MANHOLE SHALL BE THE EXISTING FORUM BASED ON THE PIPE SLOPE

OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
**SEWER MANHOLE** SS-1  
JUSTIN ANDERSON, CITY ENGINEER  
SHEET 3 OF 4



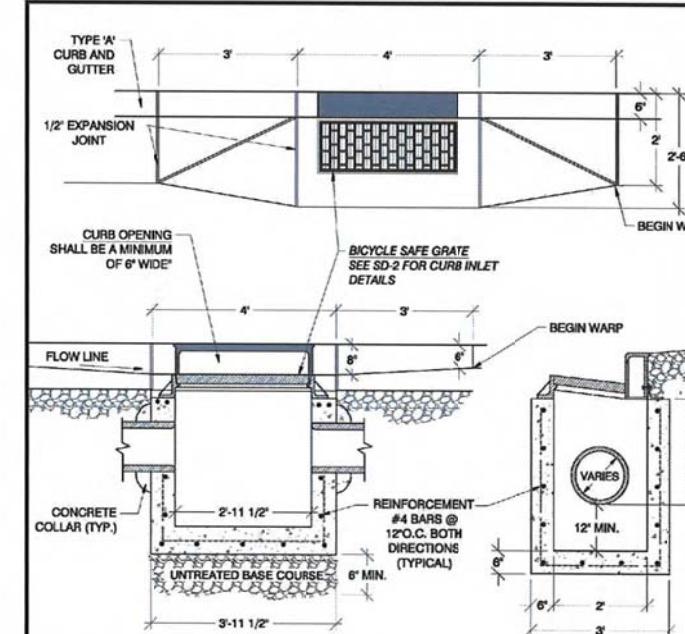
OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
**SEWER PIPE TRENCH** SS-3  
JUSTIN ANDERSON, CITY ENGINEER  
SHEET 1 OF 1



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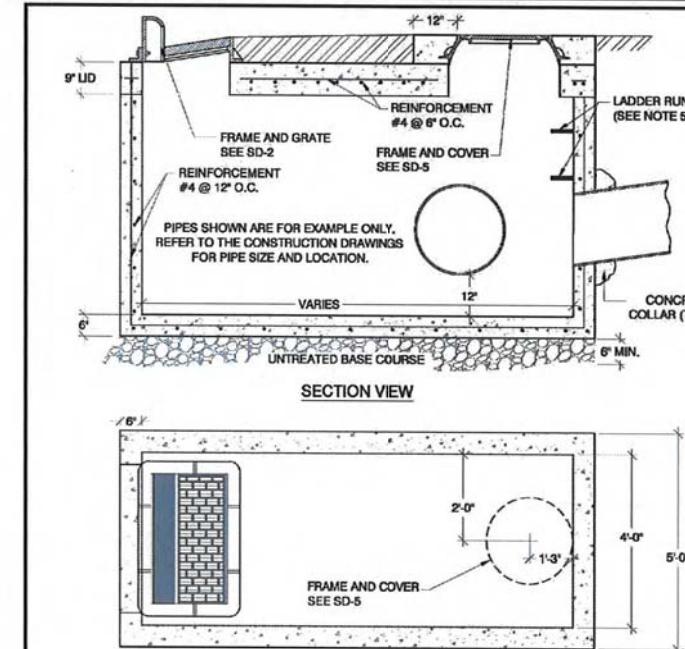
Revisions	Date	Description	Date	Scale
	12/9/2022 (AS NOTED)		2/14/2023 1 ADDENDUM 1	1:100 1:100



## NOTES:

1. COMPACT BASE COURSE AND BACKFILL PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT. MAXIMUM LIFT THICKNESS IS 6" BEFORE COMPACTION.
- 1.1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 23 ON ALL SIDES OF THE BASIN.
- 1.2. PROVIDE BASE COURSE MATERIAL PER APWA SECTION 32 11 23. PLACE MATERIAL PER APWA SECTION 31 23 23.
2. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 60, DEFORMED STEEL.
3. CONCRETE SHALL BE CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA SECTION 03 30 10. CURE PER APWA SECTION 03 39 00.
4. CURB FACE OPENING: OPENING SHALL BE AT LEAST 6" WIDE. PROVIDE A 2" DROP BETWEEN THE 'BEGIN WARP' LINE IN THE GUTTER AND THE TOP OF THE GRATE AT THE CURB OPENING.

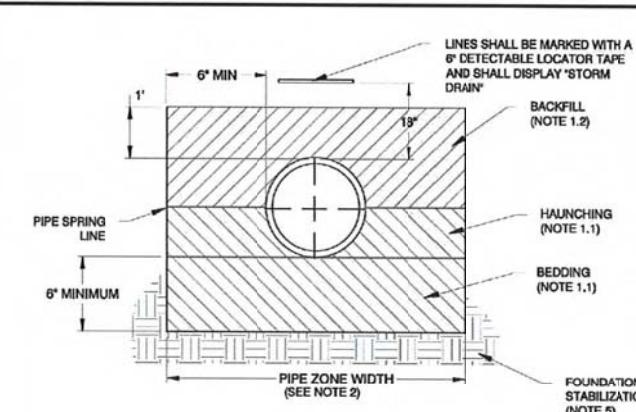
OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
 CATCH BASIN WITH CURB INLET SD-1  
 JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1



## NOTES:

1. COMPACT BACKFILL AND BASE COURSE PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 6" BEFORE COMPACTION.
- 1.1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 23 ON ALL SIDES OF THE BASIN.
- 1.2. UNTREATED BASE COURSE: PROVIDE MATERIAL PER APWA SECTION 32 11 23. PLACE MATERIAL PER APWA SECTION 31 23 23.
2. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 60, DEFORMED STEEL. SEE APWA SECTION 03 20 00.
3. CONCRETE SHALL BE CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA SECTION 03 30 10.
4. CURB FACE OPENING: OPENING SHALL BE AT LEAST 6" WIDE. PROVIDE A 2" DROP BETWEEN THE 'BEGIN WARP' LINE IN THE GUTTER AND THE TOP OF THE GRATE AT THE CURB OPENING.
5. LADDER RUNGS ARE REQUIRED IN ALL BOXES, SEE SS-6 FOR TYPICAL STEP REQUIREMENTS.

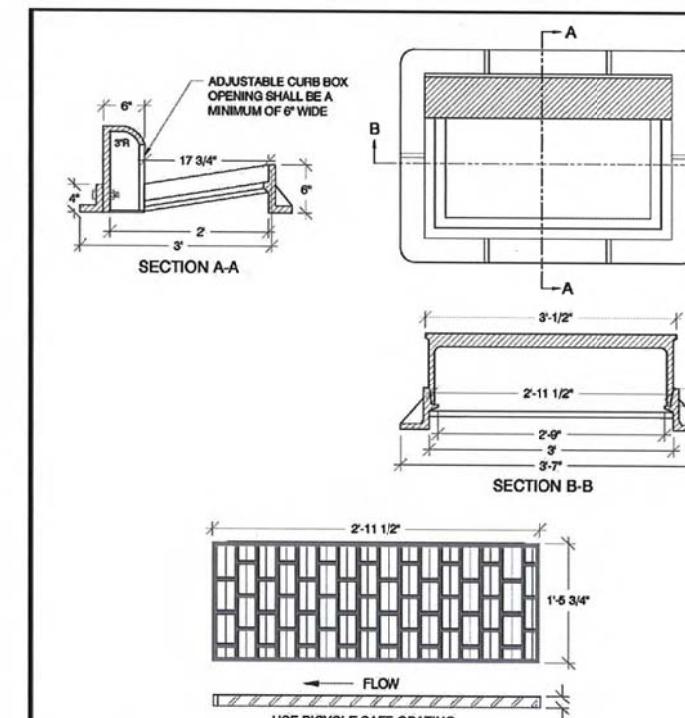
OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
 COMBINATION INLET / CLEANOUT BOX SD-3  
 JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1



## NOTES:

1. DO NOT USE SEWER ROCK OR RECYCLED RAP AGGREGATE IN THE PIPE ZONE WITH OUT THE APPROVAL OF THE CITY ENGINEER. IF MANUFACTURER RECOMMENDS ANYTHING CONTRARY TO WHAT IS LISTED BELOW, CONSULT THE ENGINEERING DEPARTMENT.
- 1.1. HAUNCHING/BEDDING: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS.
  - 1.1.1. WATER JETTING IS NOT ALLOWED.
  - 1.1.2. SUBMISSION COMPACTION TEST DATA FOR THE HAUNCHING AREAS MAY BE REQUESTED AT ANY TIME.
  - 1.1.3. BACKFILL: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS.
  - 1.1.4. COMPACT PER SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 6" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
2. PIPE ZONE WIDTH IS RECOMMENDED BY THE MANUFACTURER OF THE PIPE. WIDTH OF PIPE ZONE IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING. FOLLOW MANUFACTURE RECOMMENDATIONS FOR ANY TRENCH BOX APPLICATIONS.
3. INSTALL THE PIPE IN THE CENTER OF THE TRENCH. THE EDGE OF THE PIPE WALL SHALL BE A MINIMUM DISTANCE OF 6" FROM THE TRENCH WALL.
4. PEA GRAVEL IS NOT ALLOWED IN ANY PART OF THE TRENCH.
5. FOUNDATION STABILIZATION REQUIRES SEWER ROCK PER APWA SECTION 31 05 13.
- 5.1. INSTALLATION OF STABILIZATION-SEPARATION GEOTEXTILE PER APWA SECTION 31 05 19 WILL BE REQUIRED TO SEPARATE BACKFILL MATERIAL AND NATIVE SUBGRADE MATERIAL IF SEWER ROCK CANNOT PROVIDE A WORKING SURFACE OR PREVENT SOIL MIGRATION.
6. REFER TO SECTION 33 05 02 FOR ADDITIONAL INFORMATION ON CONCRETE PIPE.

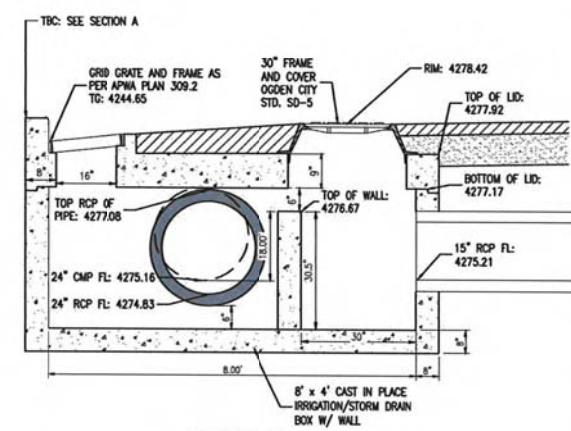
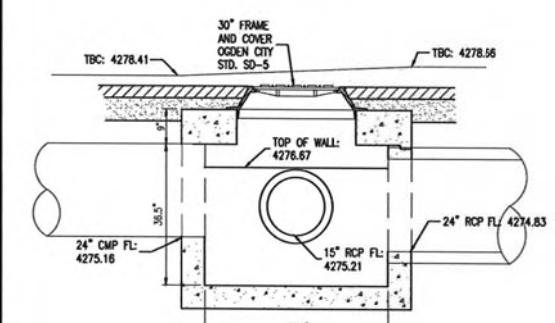
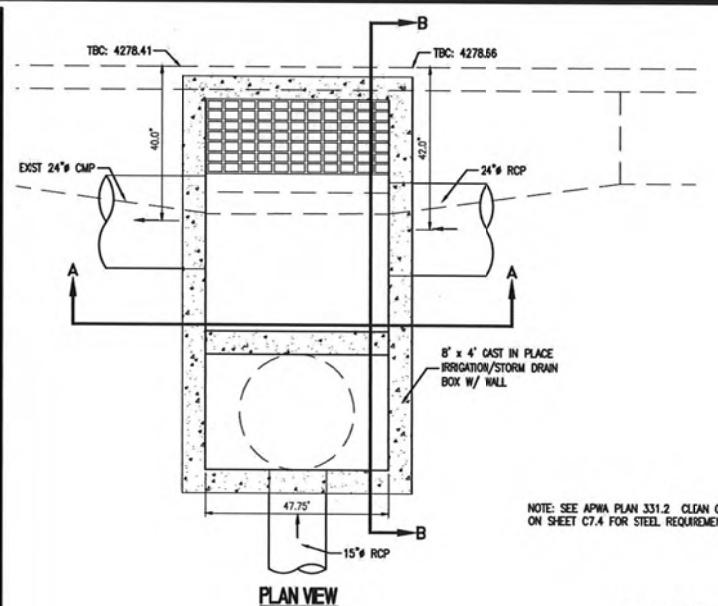
OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
 STORM DRAIN PIPE ZONE SD-6  
 JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1



## NOTES:

1. CASTING: GREY IRON CLASS 35 MINIMUM PER ASTM A 48.
2. COATINGS: EXCEPT MACHINED SURFACES, COAT ALL METAL PARTS WITH ASPHALTUM PAINT.
3. USE STAINLESS STEEL BOLTS, NUTS, AND WASHERS.
4. SEE SD-1 FOR INLET BOX DETAILS.

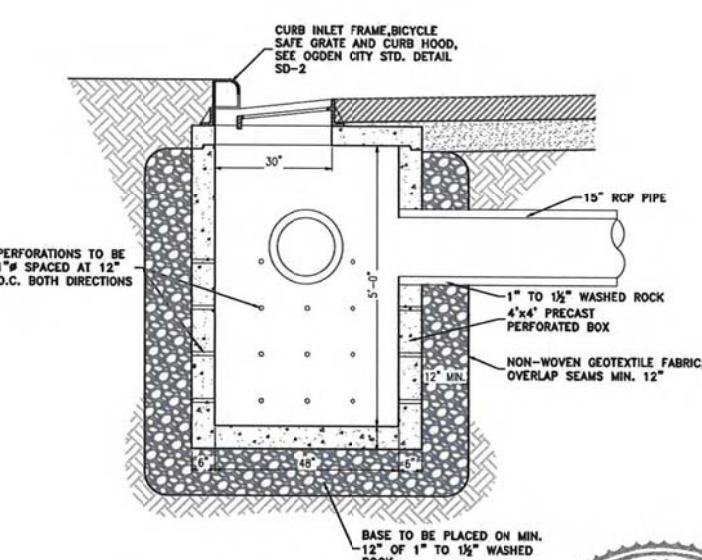
OGDEN CITY ENGINEERING - STANDARD DRAWINGS  
 35 1/2" GRATE AND FRAME WITH ADJUSTABLE CURB BOX SD-2  
 JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1



## SECTION - A

## ① IRRIGATION/ STORM DRAIN BOX W/ WALL DETAIL

NOT TO SCALE



## ② CURB INLET SUMP DETAIL

NOT TO SCALE



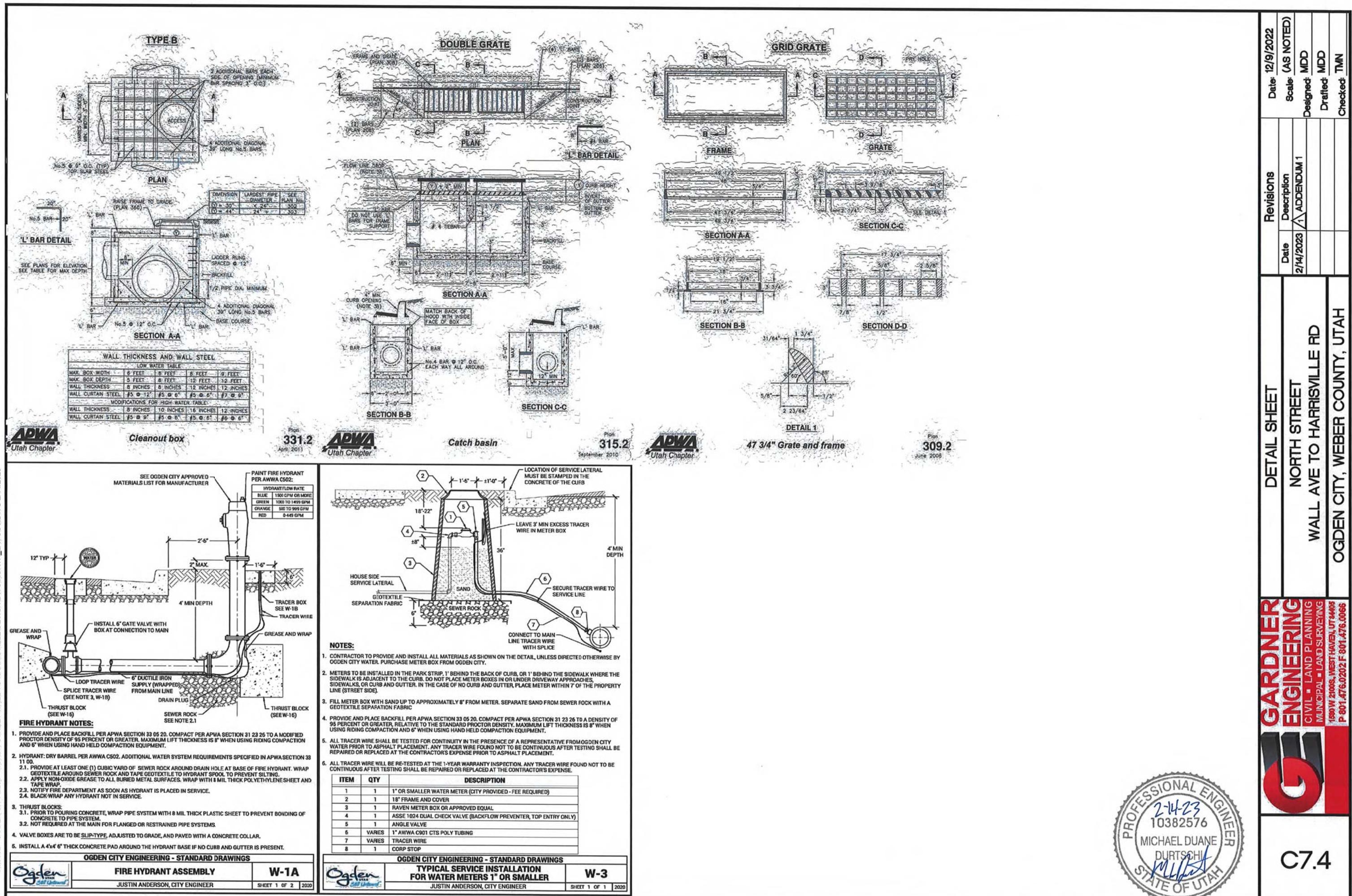
C7.3

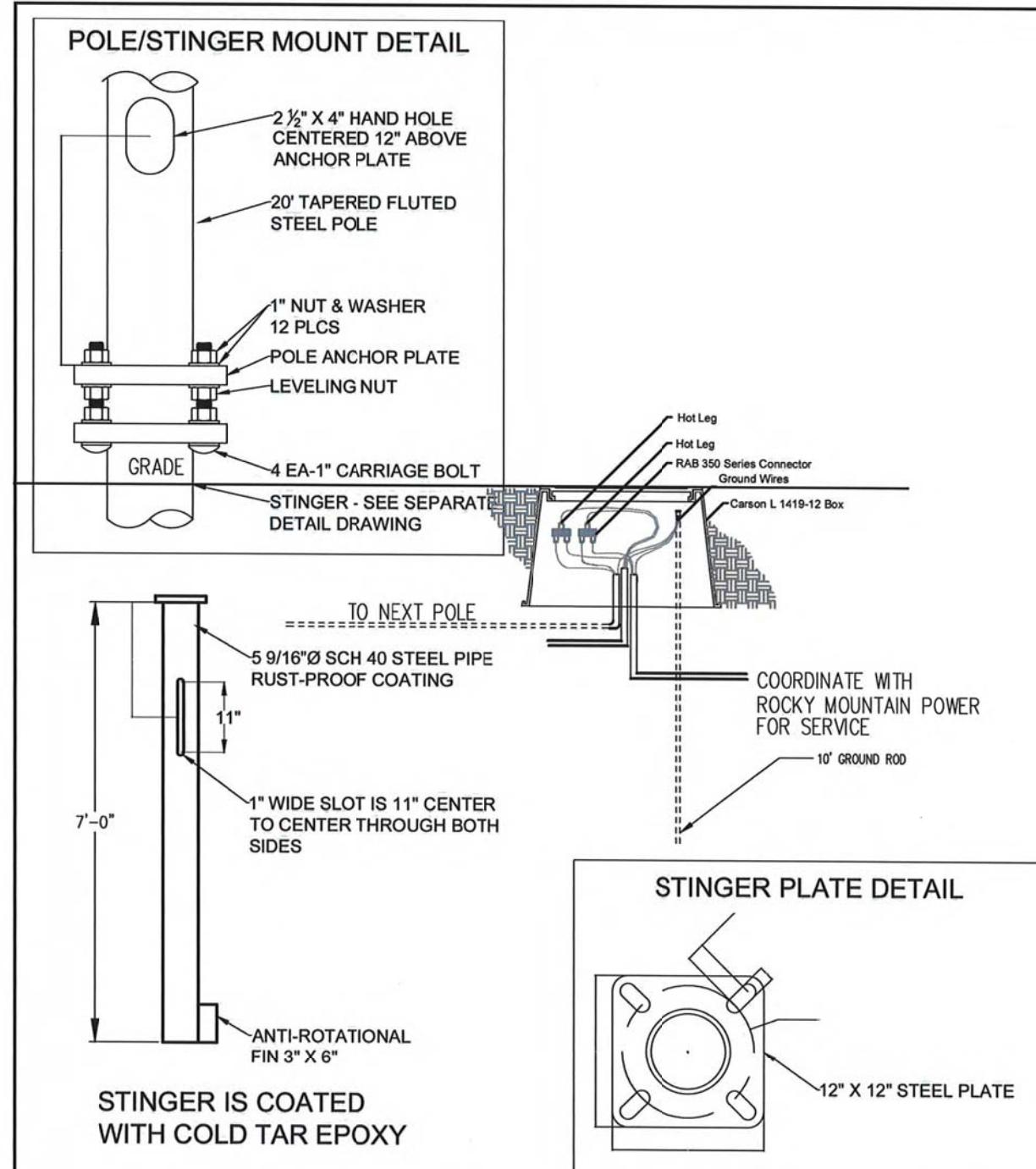
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DETAIL SHEET		Revisions	
Date	Description	Date	Description
2/14/2023	1 ADDENDUM 1		

North Street  
 Wall Ave to Harrisville Rd  
 Ogden City, Weber County, Utah

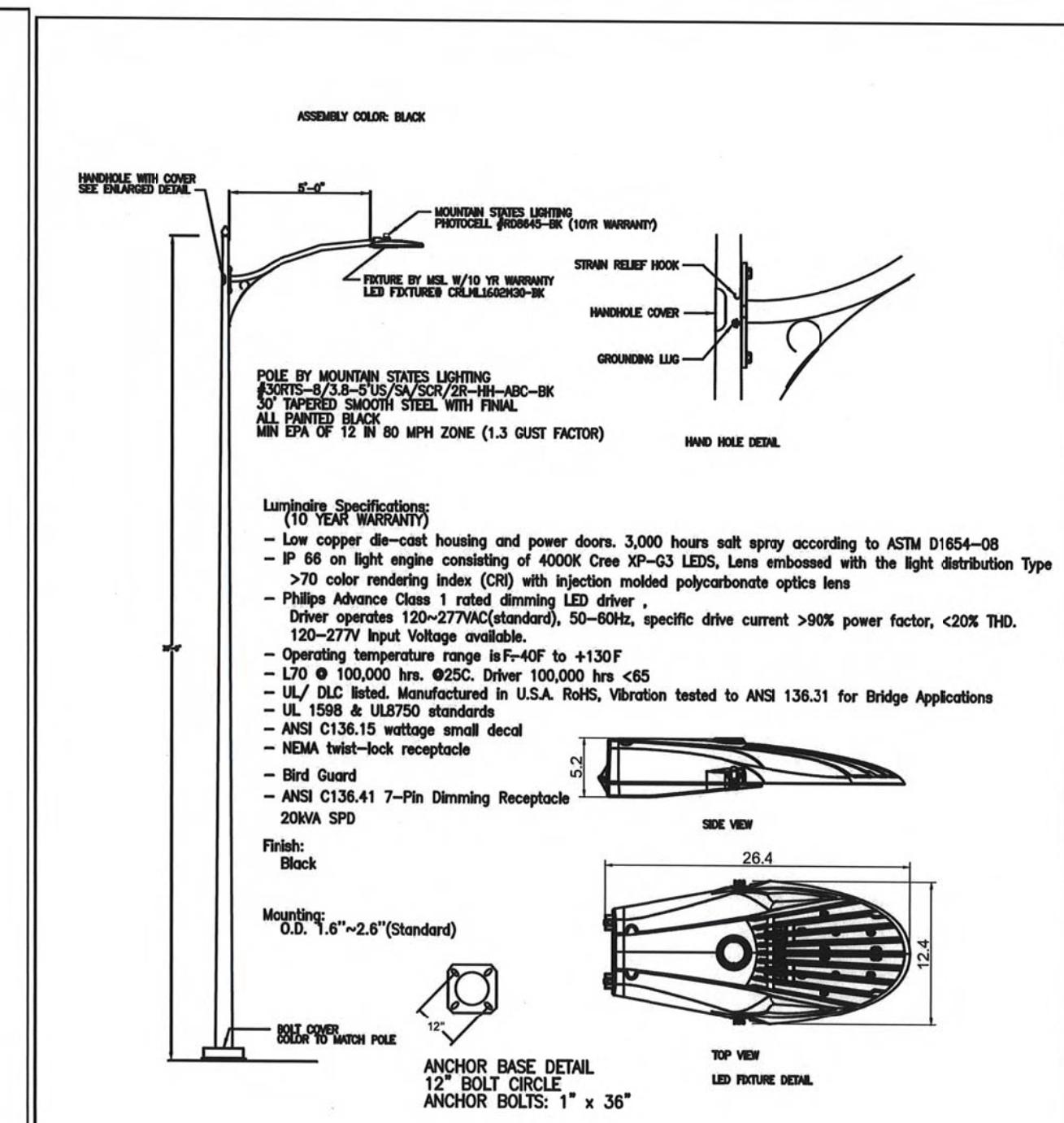
Date: 12/9/2022	Scale: (AS NOTED)
Scale: MDD	Designed: MDD
Drafted: TWN	Checked: TWN



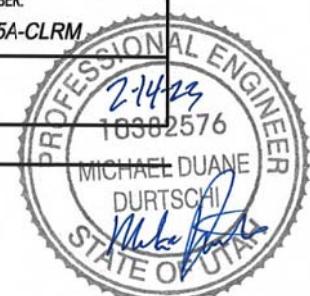


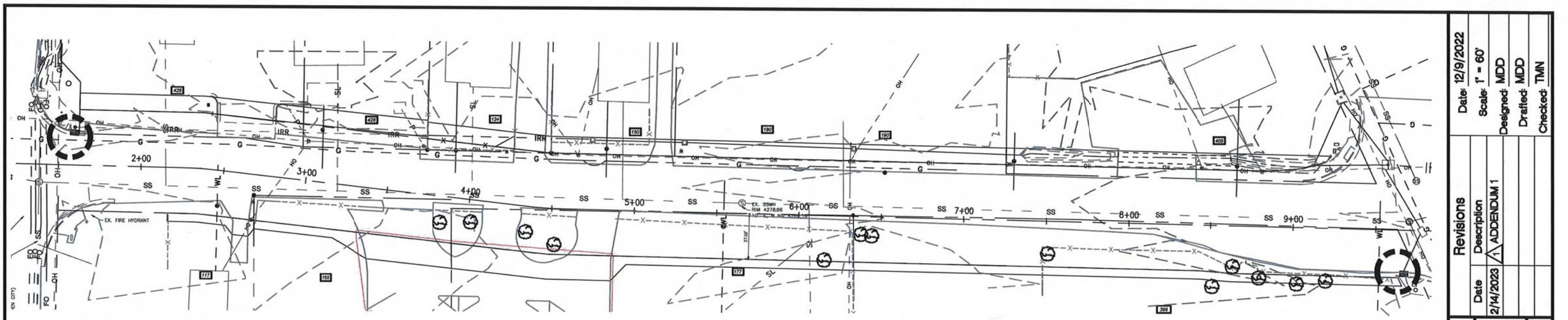
PART #: STING84"X5-9/16"RSS\8X8-CTE

 <b>Mountain States Lighting</b> 609 Krista Court Murray, Utah 84123 Phone 801-268-4879 Fax 801-605-9058	<b>NORTH STREET</b> 69" X 5'-9/16" Stinger 30'POLE			
	SCALE: NTS	DATE: 03-22-22	DRAWN BY: TM	DRAWING NUMBER: NS-69-5-9/16-STINGER
APPROVAL:				



 <b>Mountain States Lighting</b> 609 Krista Court Murray, Utah 84123 Phone 801-268-4879 Fax 801-605-9058	<b>NORTH STREET</b> OGDEN, UTAH			
	SCALE: NTS	DATE: 11/21/22	DRAWN BY: TM	DRAWING NUMBER: 30-RTS-5A-CLRM
APPROVAL:				





#### EROSION CONTROL NOTES:

1. SANDBAGS WILL BE PLACED AT DISCHARGE LOCATIONS TO CONTAIN AND DIVERT STORM WATER THROUGH THE INLET PROTECTION.
2. AN EARTHEN BERM 6" HIGH WILL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIVERT IT TO DISCHARGE AREAS.
3. STORM WATER WILL BE DISCHARGED INTO AN EXISTING DRAINAGE SYSTEM. EXISTING LINES SHALL BE INSPECTED PRIOR TO CERTIFICATE OF OCCUPANCY AND CLEANED IF NECESSARY.
4. THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONFORM TO ALL STATE DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.

#### STREET MAINTENANCE NOTES:

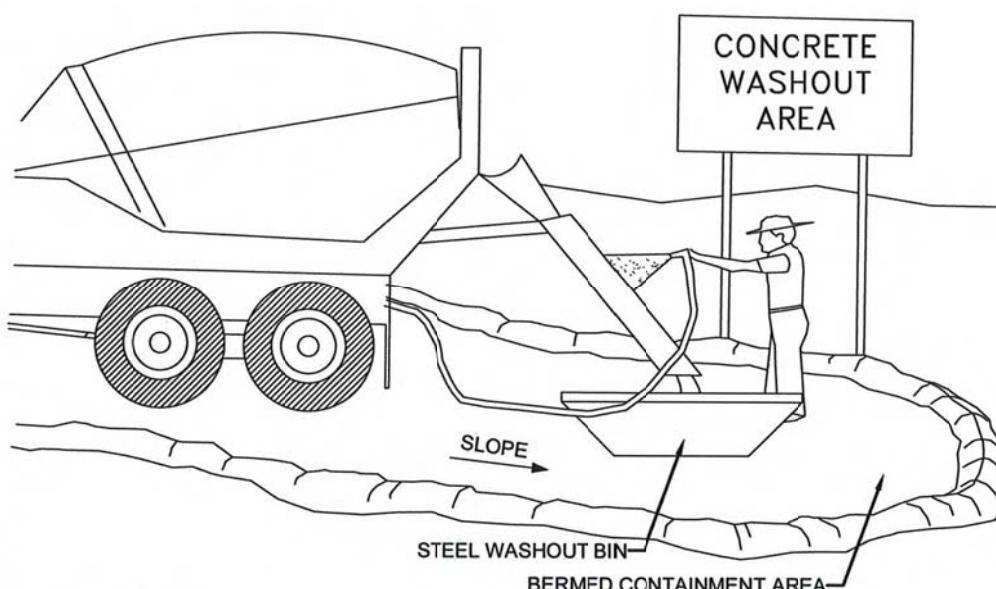
1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

#### NOTE:

CONTRACTOR SHALL COMPLETE AND SUBMIT A STATE NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN BOOKLET

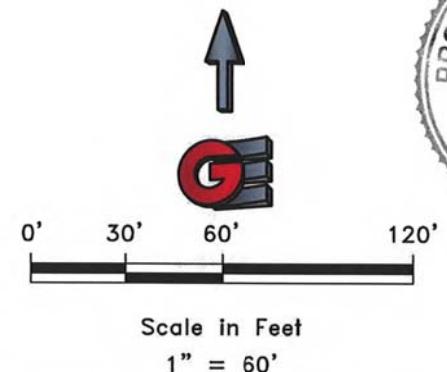
INLET PROTECTION  
(EITHER OPTION)

R1502 - OGDEN CITY(2201 - NORTH STREET WALL TO HARRISVILLE)DESIGN DWG/NORTH\_LAYOUT.DWG 2/14/2023



#### NOTES:

1. EXCESS AND WASTE CONCRETE SHALL BE DISPOSED OF OFF SITE OR AT DESIGNATED AREAS ONLY.
2. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
3. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS ONSITE, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED.
4. ONSITE CONCRETE WASHOUT CONTAINMENT FACILITY SHALL BE A STEEL BIN OR APPROVED ALTERNATE.
5. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.



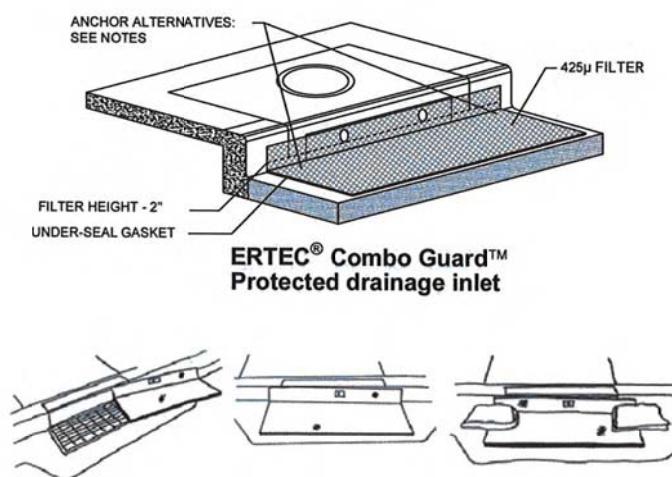
C8.1

Date:	12/9/2022
Scale:	1" = 60'
Designed:	MDD
Drafted:	MDD
Checked:	TMN

EROSION CONTROL PLAN  
NORTH STREET  
WALL AVE TO HARRISVILLE RD  
OGDEN CITY, WEBER COUNTY, UTAH

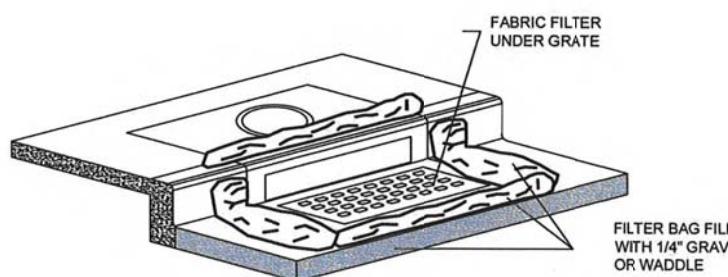
## INSTALLATION NOTES

1. PLACEMENT: PLACE CG TIGHTLY AGAINST CURB OPENING AND COVER ENTIRE GRATE. CG SHOULD EXTEND AT LEAST 2 INCHES PAST GRATE TOWARDS STREET.
2. OVERLAP FOR LONG OPENINGS: OVERLAP CG UNITS AT LONGER OPENINGS.
3. ANCHOR: ANCHOR CG SO THAT WATER CANNOT FLOW BEHIND IT.
4. ALTERNATE ANCHOR METHODS: A) INSTALL GRAVEL BAGS AT EACH SIDE OF CG - HALF-ON AND HALF-OFF THE EDGES. USE HALF-FILLED GRAVEL BAGS (15 OR 20 LBS). ROUND ROCK IS RECOMMENDED. OR B) ATTACH WITH 16 GAUGE TIE-WIRE. CUT WIRE TO 18" LENGTH. AT EACH CORNER OF CG, FEED ONE END OF WIRE DOWN THROUGH CG, AROUND GRATE BAR, AND BACK UP THRU CG. ABOVE GROUND, TWIST WIRES SEVERAL TIMES, CUT-OFF EXCESS. OR C) FASTEN WITH CONCRETE ANCHORS/NAILS AT THE OUTSIDE EDGES OF CG.



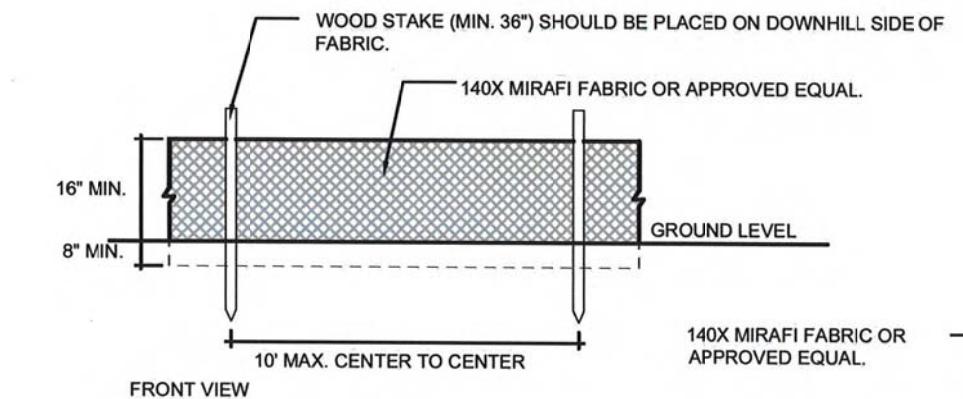
1A INLET PROTECTION - OPTION 1

Scale: NTS



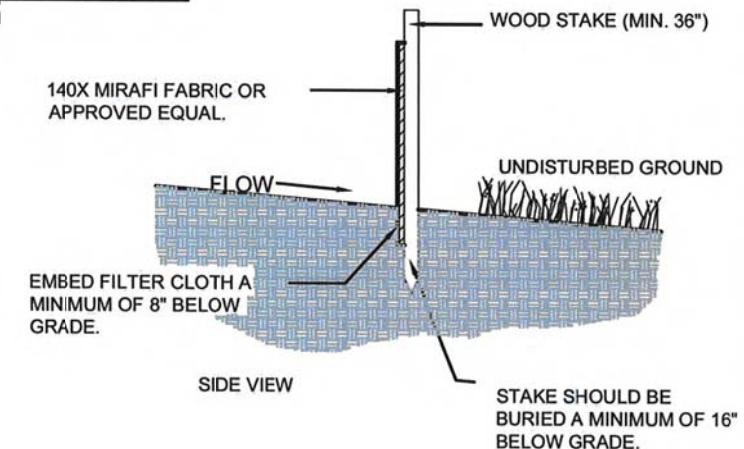
1B INLET PROTECTION - OPTION 2

Scale: NTS



2 SILT FENCE

Scale: NTS

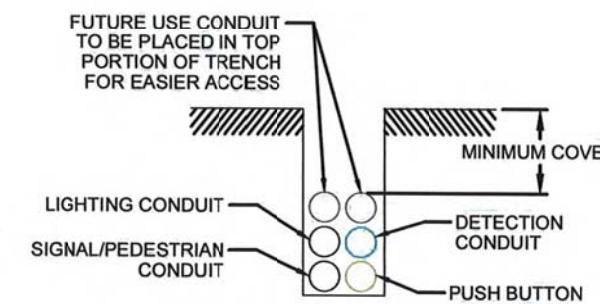
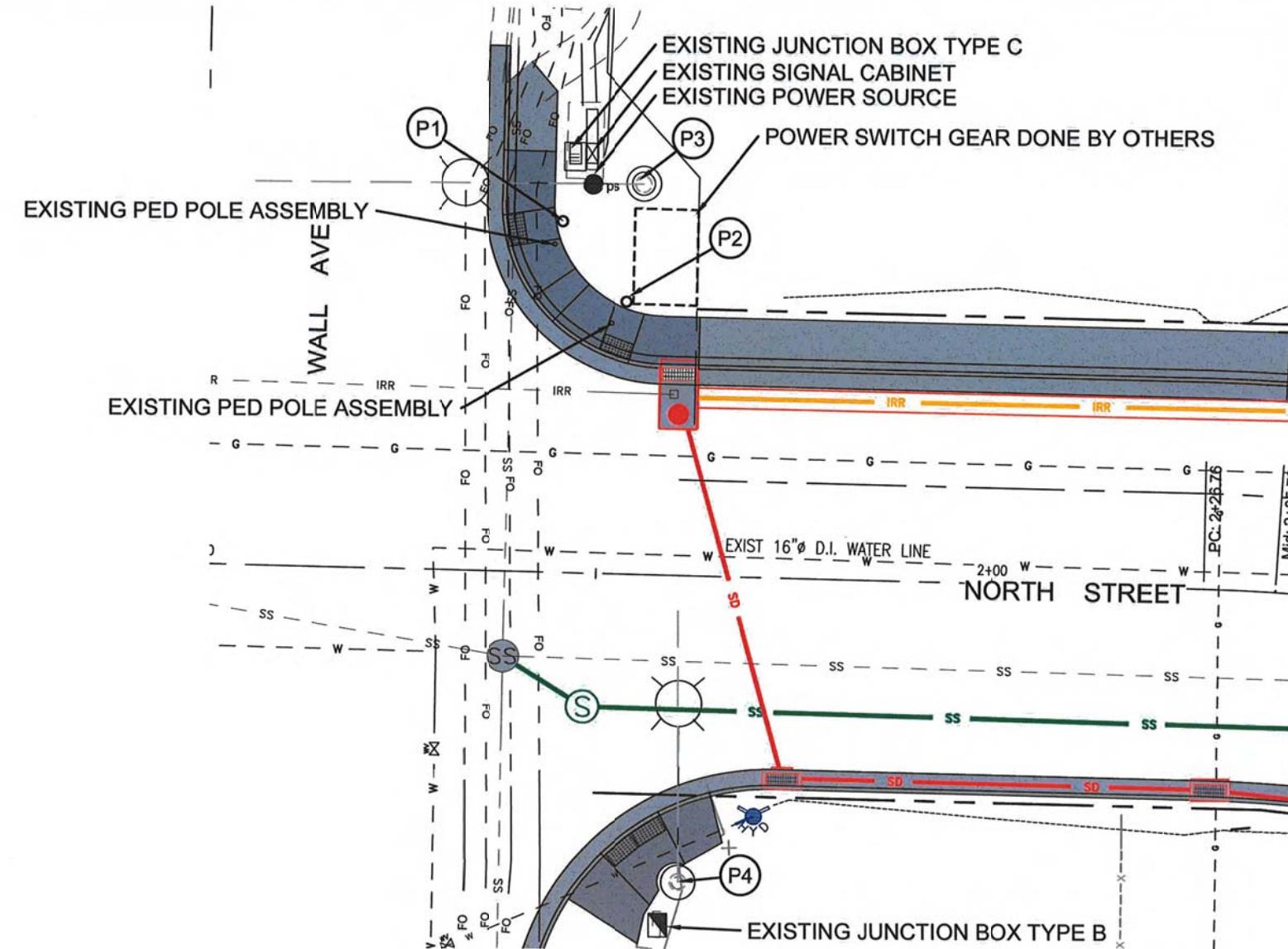


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EROSION CONTROL DETAILS		Revisions	Date	Description	Date	Scale	Notes
1	ADDENDUM 1	1	2/14/2023	1		MDD	MDD

Date: 12/9/2022	Scale: #####
Designed: MDD	Drafted: MDD
Checked: TMN	Reviewed: TMN

**NOTES:**

1. REFER TO SL SERIES STANDARD DRAWINGS FOR MINIMUM CONDUIT DEPTH REQUIREMENTS.
2. MINIMUM OF 6 CONDUITS ARE REQUIRED FOR EACH ROAD CROSSING LOCATION.

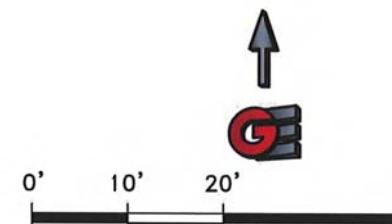
**TRENCHING AND BORING DETAIL**

POLE ID.	POLE SCHEDULE				REMARKS
	STATION	OFFSET	LUMINAIRE	ARM LENGTH	
P1	1+44.99	44.11 LT			RELOCATE 11' TRAFFIC/PED POLE
P2	1+53.26	34.20 LT			RELOCATE 11' TRAFFIC/PED POLE
P3			15	40	EXIST MAST ARM SIGNAL POLE
P4			15	40	EXIST MAST ARM SIGNAL POLE

RELOCATION OF EXISTING EQUIPMENT		
	RELOCATE	
	COUNTDOWN PEDESTRIAN SIGNAL HEAD*	
	TRAFFIC SIGNAL/PEDESTRIAN POLE **	
	PEDESTRIAN PUSH BUTTON AND SIGN	
LOCATION	EA	EA
NORTH & WALL	2	2
TOTAL	2	2

\* RELOCATE TO SIGNAL POLE P3

\*\* CONTRACTOR REQUIRED TO FIELD CUT EXISTING 11' POLE TO 5.5'. REUSE EXISTING POLE CAP.



Scale in Feet

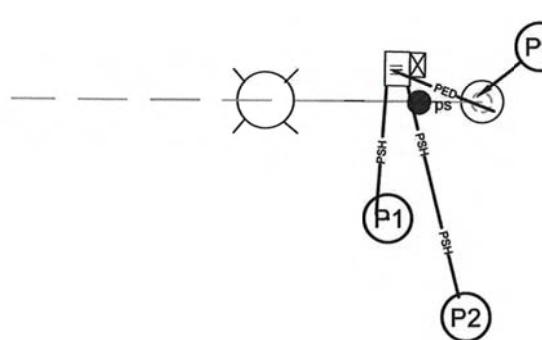


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C9.1

**SIGNAL**  
**NORTH STREET**  
**WALL AVE TO HARRISVILLE RD**  
**OGDEN CITY, WEBER COUNTY, UTAH**

Date:	Revisions		Date: 12/9/2022
	Description	Scale: 1' = 20'	
2/14/2023	△ ADDENDUM 1		
			Scale: 1' = 20'
			Designed: MDD
			Drafted: MDD
			Checked: TMN

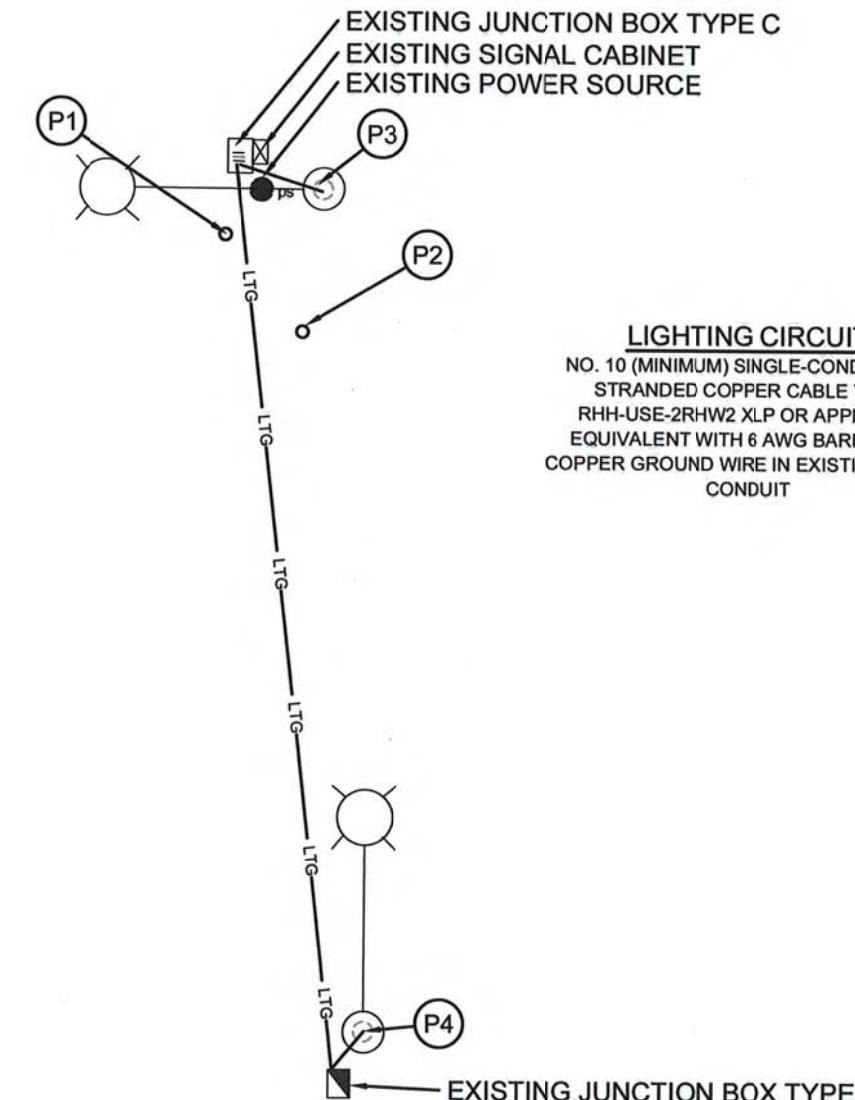


**PUSH BUTTON CIRCUIT**  
4-CONDUCTOR 14 AWG STRANDED  
CABLE, IMSA 20-1 IN 2-INCH CONDUIT  
\*RE-USE EXISTING WIRE IF POSSIBLE

**PEDESTRIAN SIGNAL CIRCUIT**  
7-CONDUCTOR 14 AWG STRANDED CABLE,  
IMSA 20-1 IN 2-INCH CONDUIT  
\*RE-USE EXISTING WIRE IF POSSIBLE



EXISTING JUNCTION BOX TYPE B



**LIGHTING CIRCUIT**  
NO. 10 (MINIMUM) SINGLE-CONDUCTOR  
STRANDED COPPER CABLE TYPE  
RHH-USE-2RHW2 XLP OR APPROVED  
EQUIVALENT WITH 6 AWG BARE SOLID  
COPPER GROUND WIRE IN EXISTING 2-INCH  
CONDUIT



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**C9.2**

Revisions		Date: 12/9/2022	Scale: ######	Designed: MDD	Drafted: MDD	Checked: TIN
Date: 2/14/2023	ADDENDUM 1					



CONTRACTOR FURNISHED MATERIALS							
	SIGNAL STRUCTURAL SUPPORT SYSTEM	CONDUIT PLACEMENT	PEDESTRIAN SIGNAL	LIGHTING			
	TRAFFIC SIGNAL/PED POLE FOUNDATION - 2' X 3'	TRENCHING UNPAVED SURFACE	2" CONDUIT	7-CONDUCTOR 14 AWG STRANDED CABLE (PED CIRCUIT)	4-CONDUCTOR 14 AWG STRANDED CABLE, (PUSH BUTTON CIRCUIT)	NO. 10 SINGLE CONDUCTOR CABLE	NO. 6 BARE COPPER GROUND WIRE
LOCATION	EA	LF	LF	LF	LF	LF	LF
NORTH & WALL	2	30	30	45	60	210	210
TOTALS	2	\$	\$	\$	\$	\$	\$

\$ THESE ITEMS ARE CALCULATED BY THE CONTRACTOR

STATE FURNISHED MATERIALS			
HIGHWAY LIGHTING			
	POLE EXTENSION	ARMS	LED'S
LOCATION	40' LUMINAIRE EXTENSION (17' 6") (FOR TYPE - A MAST POLE)	15' LUMINAIRE ARM	MULTI-VOLT / TYPE - B (400W)
NORTH & WALL	EA	EA	EA
TOTALS	2*	2*	2

\* REGION ONE WILL PROVIDE. ARRANGE WITH DAVE TOWNSEND 801.940.0485 FOR PICK UP.

**NOTES:**

- SEE UDOT STD DWG SL SERIES AND SECTIONS 02892 AND 16530.
- CONTRACTOR RESPONSIBLE TO HOOK UP LIGHTING TO UNMETERED SIDE OF EXISTING POWER POWER PEDESTAL. CITY TO CONTACT ROCKY MOUNTAIN POWER TO ADD 2 LUMINARIES.
- PLACE ALL CONDUIT IN SAME TRENCH OR BORE SHOT WHERE POSSIBLE.
- CONSTRUCT SIGNAL IN A MANNER TO AVOID DAMAGE TO EXISTING UTILITIES. ASSUME RESPONSIBILITY FOR ANY UTILITY DAMAGED BY CONSTRUCTION OPERATIONS. THE PLANS SHOW BURIED UTILITY LOCATIONS IN THEIR APPROXIMATE LOCATION ONLY.
- SEE MANUFACTURER'S REQUIREMENTS FOR CABLE TYPE.

**NOTES:**

- NOTIFY RESIDENT ENGINEER 4-6 WEEKS PRIOR TO THE DATE STATE FURNISHED MATERIALS ARE NEEDED.
- PICK UP STATE FURNISHED ANCHOR BOLTS, SIGNAL POLE STEEL, AND OTHER ELECTRONICS HARDWARE AT STATE WAREHOUSE. PROVIDE LOADING EQUIPMENT AND PERSONNEL FOR PICK-UP. CONTACT GREG PALMER, (801) 965-4258, TO SCHEDULE PICK-UP. MINIMUM 48 HOURS ADVANCE NOTICE REQUIRED.



C9.3



Date: 12/9/2022	Revisions
2/14/2023	ADDENDUM 1