DESIGN DATA				
Traffic	Average Daily			
Current 2018	Pass: 7500	Trucks: 275	Total: 7775	
Forecast 2040	Pass: 9450	Trucks: 250	Total: 9700	
Clear Zone Distance: 14 FT		Design Speed: 25 MPH		
Minimum Sight Dist. for Stopping: 155 FT		Bridges: N/A		
Sight Dist. for No Passing Zone: 450 FT				
Pavement Design Life 35 (years)				
Design Accumulated One-way ESALs: 2,032,000				

	STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	22277	1	1

JOB # 2
NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

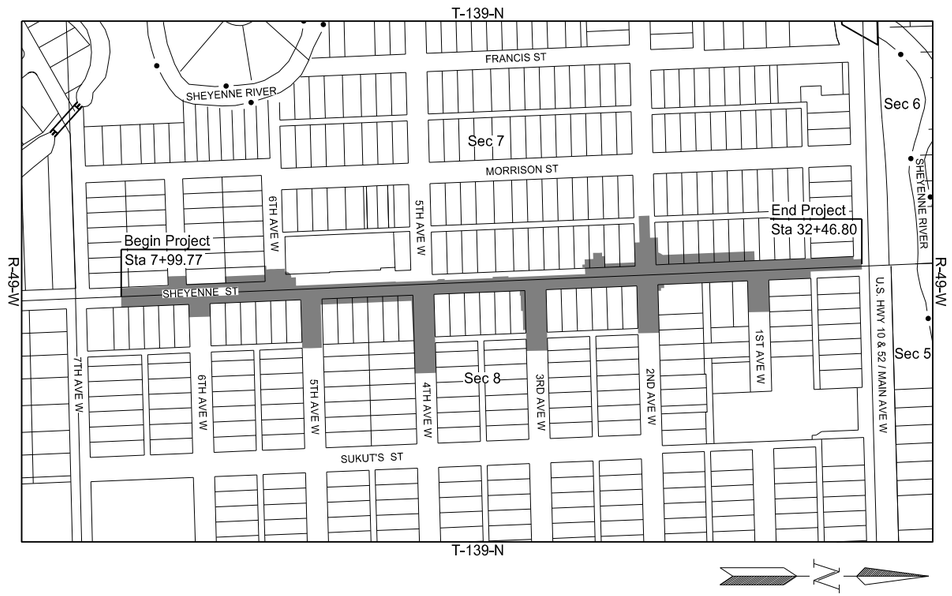
UGP-8-992(041)

Cass County
Downtown Sheyenne Street
Main Ave to 7th Ave
Grading, Aggregate Base, PCC Concrete Pavement, Storm Sewer,
Sidewalk, Landscaping, Signing, Pavement Markings,
Street Lighting, & City Utilities

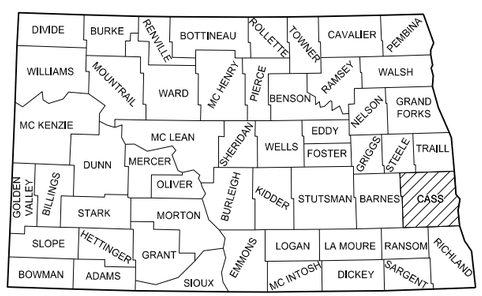
GOVERNING SPECIFICATIONS:
2020 Standard Specifications adopted by the North Dakota Department of Transportation and the Supplemental Specifications effective on the date the project is advertised.

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
UGP-8-992(041)	0.46	0.46

City of West Fargo Street Improvement Dist 3003



PROJECT MANAGER
Matt Welle
DESIGNER Dylan Dunn
DESIGNER Kevin Knott
DESIGNER Eric Molbert
DESIGNER Alison Hanslip
DESIGNER Taylor Braaten
DESIGNER Kevin Kroke
DESIGNER Brian Reinarts
DESIGNER Brad Garcia



STATE COUNTY MAP

APPROVED DATE 08/28/20

Dustin T. Scott /s/
CITY ENGINEER

APPROVED DATE 08/28/20

Matthew Andvik /s/
PUBLIC WORKS DIRECTOR

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE 08/28/20

Kevin J. Knott /s/
MOORE ENGINEERING, INC.

MOORE ENGINEERING, INC.

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PLAN SECTIONS

Section	Page(s)	Description
1	1	Title Sheet
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20	1 - 27	General Details
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50	1 - 4	Hydraulic Data
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77	1 - 5	Permanent Erosion Control
81	1 - 6	Survey Coordinate and Curve Data
82	1 - 13	Survey Data Layouts
85	1 - 37	Landscaping
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SPECIAL PROVISIONS

Number	Description
SP 099(20)	City of West Fargo Supplemental Specifications
SP 100(20)	Commercial Grade Hot Mix Asphalt
SP 101(20)	Utility Coordination
SSP 1	Temporary Erosion and Sediment Best Management Practices

LIST OF STANDARD DRAWINGS

Number	Description
D-101-1, 2, 3	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31, 32	Symbols
D-255-2	Erosion And Siltation Control - Erosion Control Blanket Installation
D-260-1	Erosion And Siltation Controls - Silt Fence
D-261-1	Erosion Control - Fiber Roll Placement Details
D-550-2	Longitudinal Joint Details
D-550-3	Transverse Contraction Joint Details
D-550-5	Transverse Construction Joint
D-704-2	Traffic Control For Coring Of Hot Bituminous Pavement
D-704-5	Contractor Sign Detail
D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
D-704-9	Construction Sign Details - Terminal And Guide Signs
D-704-10	Construction Sign Details - Regulatory Signs
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-704-21	Detour And Roadway Diversion Sign Layouts
D-704-23	Short Term Urban Detour And Lane Closure On A Divided Highway Layouts
D-704-50	Portable Sign Support Assembly
D-714-1	Reinforced Concrete Pipe Culverts And End Sections (Round Pipe)
D-722-1B	Inlet - Special
D-722-2	Inlet - Type 2
D-722-3A	Inlet - Slotted Drain
D-722-5	Manhole Details
D-750-3	Curb Ramp Details
D-754-23	Perforated Tube Assembly Details
D-754-24, 25	Mounting Details Perforated Tube
D-754-24A	Breakaway Coupler System For Perforated Tubes
D-754-26, 27, 28, 29, 31	Sign Punching, Stringer And Support Location Details Regulatory, Warning, And Guide Signs
D-754-74	Sign Punching, Stringer And Support Location Details - Route Marker Signs
D-754-80	Light Standard, Signal Standard, And Span Wire Mounted Sign Assembly Detail
D-754-86	911 Sign Support Information And Sign Details
D-754-87	Sign Punching, Stringer And Support Location Details For Street Name Signs And 911 Signs

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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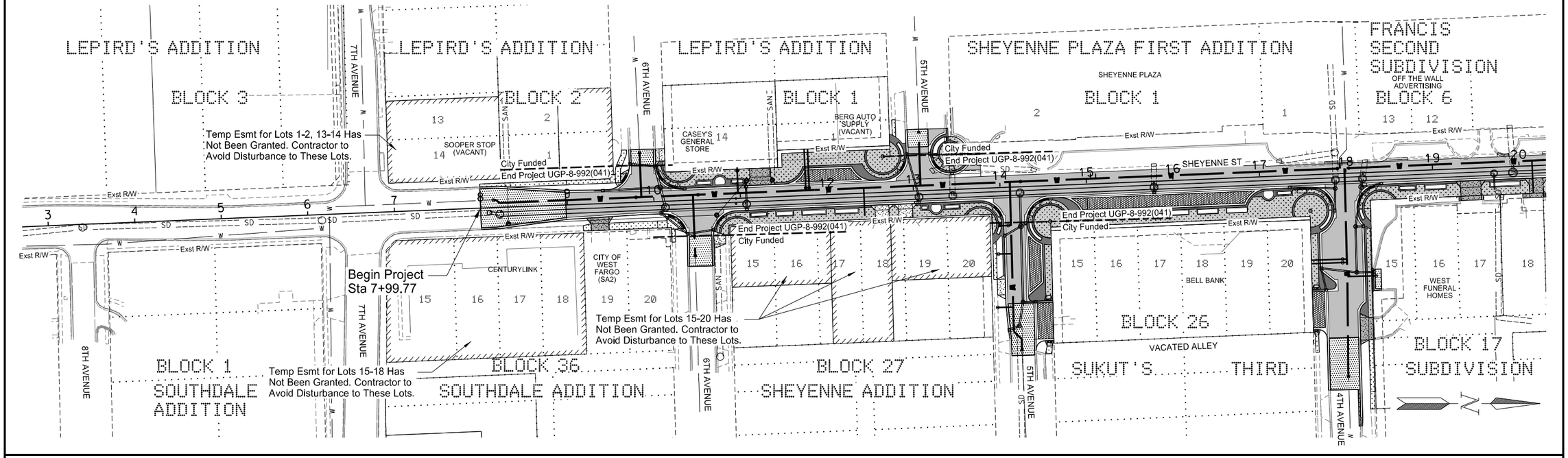

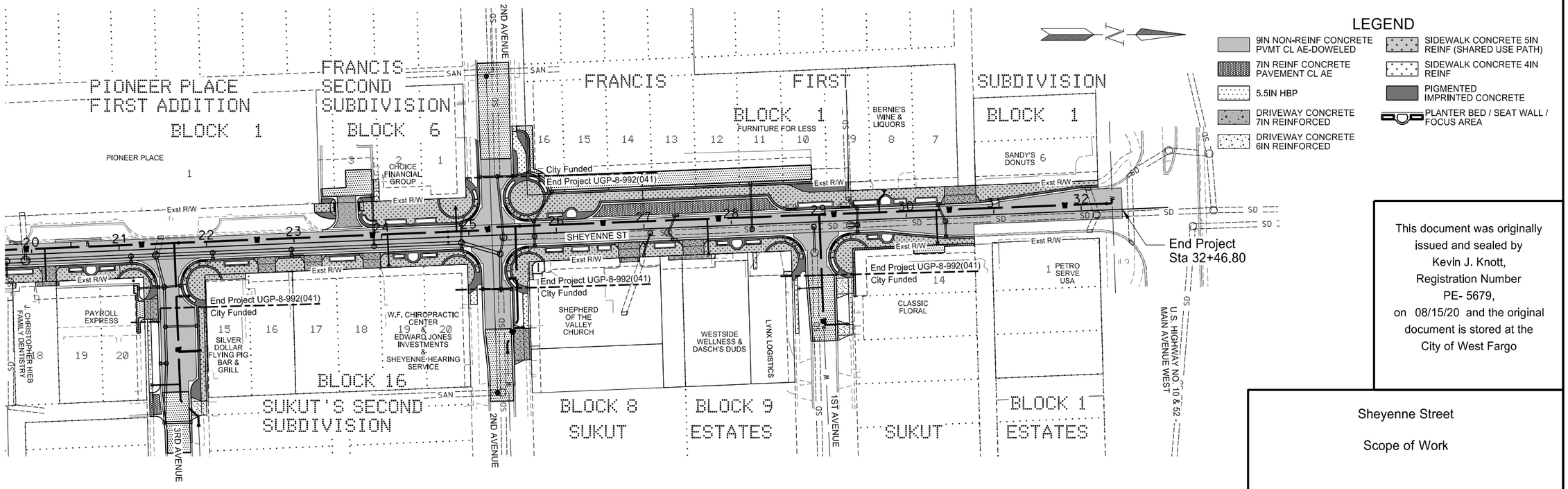

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Sheyenne Street

Scope of Work

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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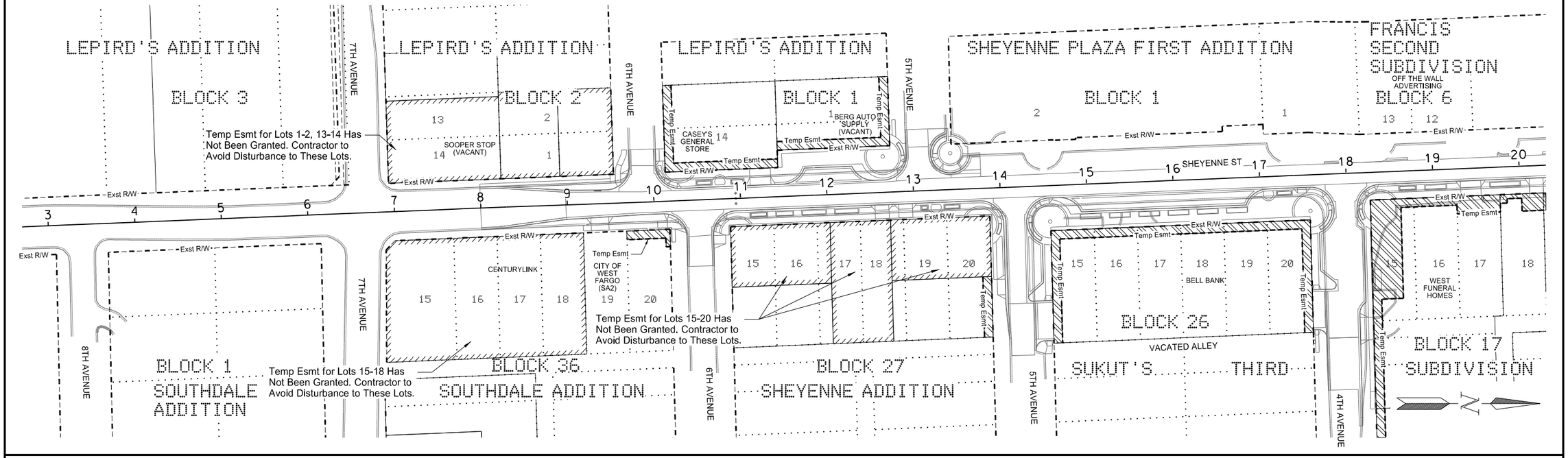

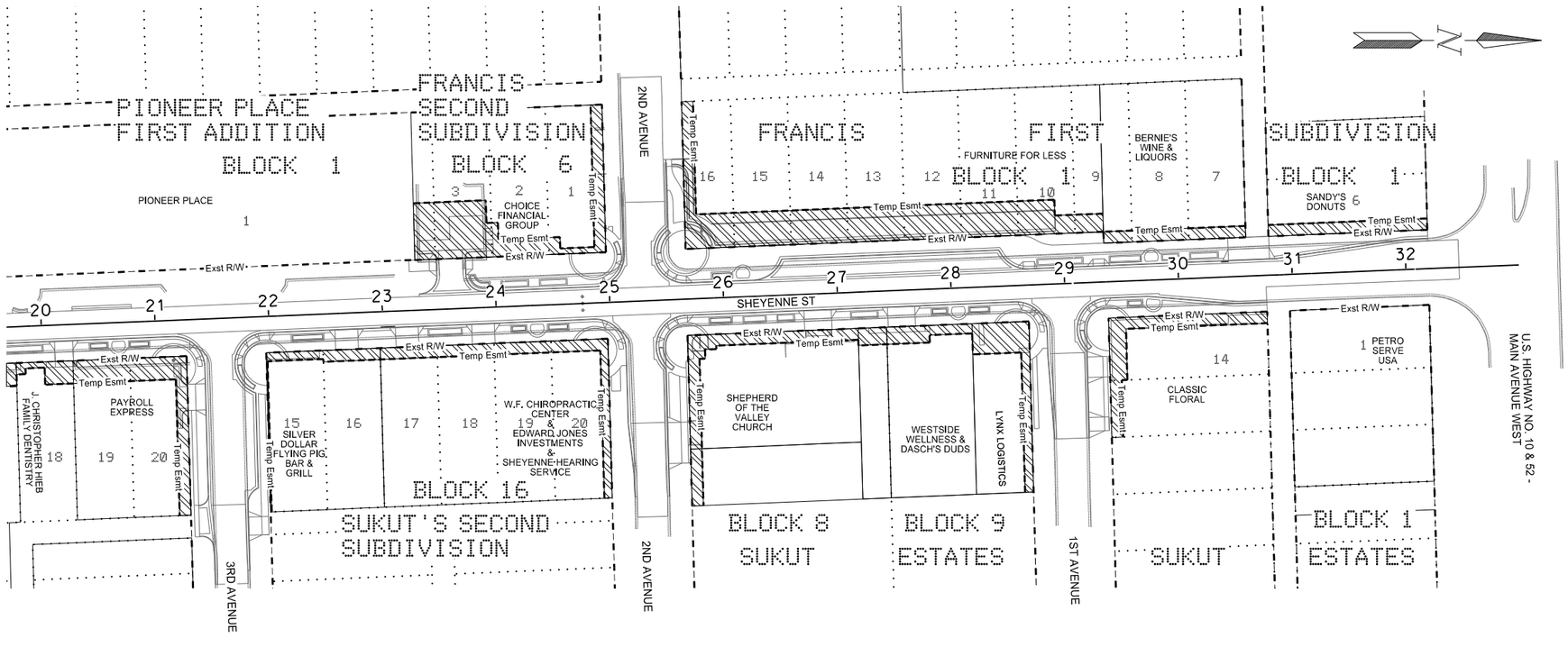

LEGEND

TEMPORARY CONSTRUCTION EASEMENT

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Sheyenne Street

Scope of Work
Temporary Construction Easements

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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NOTES

100-P01 COMPLETION DATES:

Interim Completion Date No. 1: All Work from the south project limit at Station 7+99 to north of 4th Avenue at Station 18+59, except the curb, sidewalk, and driveways around The Heights (Bell Bank Downtown property) between 4th Avenue and 5th Avenue as indicated in Section 100 plans.

Interim Completion Date No. 1 is July 24, 2021. Liquidated damages will be assessed at a rate of $4,000.00 for each calendar day that expires after July 24, 2021.

Interim Completion Date No. 2: All Work from north of 4th Avenue at Station 18+59 to north of 2nd Avenue at Station 25+86.

Interim Completion Date No. 2 is September 18, 2021. Liquidated damages will be assessed at a rate of $4,000.00 for each calendar day that expires after September 18, 2021.

Interim Completion Date No. 3: All Work from north of 2nd Avenue at Station 25+86 to north project limit at Station 32+47, and curb, sidewalk, and driveways around The Heights (Bell Bank Downtown property) as indicated in Section 100 plans.

Interim Completion Date No. 3 is November 6, 2021. Liquidated damages will be assessed at a rate of $4,000.00 for each calendar day that expires after November 6, 2021.

Final Completion: The project will be complete, including achieving Final Stabilization and the removal of all temporary erosion protection and sediment control devices.

Final Completion is June 15, 2022. Liquidated damages will be assessed at a rate of $350.00 for each calendar day that expires after June 15, 2022.

Liquidated Damages: Liquidated damages for failing to timely attain any completion dates are not additive and will not be imposed concurrently.

100-P02 COORDINATION OF PROJECTS: Multiple projects will be occurring in the vicinity during the 2021 construction season. Coordinate scheduling, work activities and construction traffic control devices between projects. The following list summarizes the projects that may occur and are subject to change:

1. The Heights (Bell Bank Downtown) – private site redevelopment
2. TAU-8-992(042) _ Drain 45 Multi-Use Path – Phase I (7th Ave to 13th Ave)
3. City of West Fargo Street Improvement Dist 2256 – 7th Ave West – 1st St to Oak St
4. City of West Fargo Storm Sewer Lift Station (SM-79) – 7th Ave W

100-P03 WORKING HOURS: Monday through Saturday from 7:00 AM to 7:00 PM, unless otherwise noted. Sunday and holidays by permission only. Submit request to Engineer for approval a minimum of 48 hours in advance.

Working hour restrictions do not apply to relief sawing. Coordinate green sawing operations with City and provide notification to property owners.

100-P04 CONTRACTOR PARKING/STAGING AREA RESTRICTIONS: Parking of personal vehicles, construction equipment, storage of construction materials, or work areas on private property is prohibited without written permission by the property owner.

Staging of construction material, storing of personal vehicles or construction equipment in the City's right of way outside of the construction work zone is prohibited.

105-P01 POTHOLE UTILITY: Pothole to locate existing 14" CIP Sanitary Sewer Forcemain at 2nd Avenue in 3 locations as determined by Engineer. Include all costs for labor, materials, and equipment for locating forcemain in "Pothole Utility."

105-P02 PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Sweep paved areas that were used by construction traffic before opening these areas to public traffic. Sweep all newly constructed pavement no more than 24 hours before a scheduled final inspection. Use a vacuum type sweeper to perform this work.

107-P01 MAINTAINING TRAFFIC –DROP-OFFS: If, at the end of the work-day, drop-offs greater than 2 inches and less than 18 inches or slopes steeper than 4:1 exist between the edge of a traffic lane and the outside edge of the proposed roadway, perform one of the following actions:

- Construct a traversable wedge in the area of the drop-off or steep slope; or
- Close the lane adjacent to the drop-off or steep slope and provide 24-hour flagging.

When constructing a wedge, construct a wedge composed of aggregate or earthen materials with a 4:1 or flatter slope along the entire length of the area. Compact materials using Type C compaction, as specified in 203.04 E.4, "Compaction Control Type C".

Install stackable vertical panels that meet the requirements of Section 704.03 H, "Stackable Vertical Panels", along the edge of the driving lane closest to the wedge.

The Engineer will measure stackable vertical panels as specified in Section 704.05, "Method of Measurement" and will pay for panels as specified in Section 704.06, "Basis of Payment".

The Engineer will not measure material used to construct the wedge. Include the cost of materials, equipment, labor, and incidentals required for this operation in the price bid for aggregate pay items.

If a 4:1 or flatter wedge is not installed, provide 24 hour flagging or pilot car operations and associated traffic control at no additional cost to the Department.

The requirements of Section 704.04 O, "Traffic Control for Uneven Pavement" apply to drop-offs created by milling or the placement of hot mix asphalt.

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107-P02 TREE PRECAUTIONS: Use care when working near trees. Protect the trees and the root zone during construction.

1. Minimize equipment on the boulevards Use Common access points when possible.
2. Roots over 4" diameter that are cut will require an inspection by a Forestry Department Arborist or other City designated representative.
3. Cut, clean, and backfill exposed tree roots as quickly as possible to avoid drying out.
4. Avoid unnecessary grading.
5. Contact the City Forestry Department will determine the extent of the impact. Mitigate any impacts identified to the extent details by the City Forestry Department at no cost to the NDDOT.

City Forestry Department contact:
Chad Zander
(701)-433-5400
Chad.zander@westfargond.gov

108-P01 WEEKLY PLANNING & REPORTING MEETING: A weekly planning and reporting meeting is required. Provide a suitable meeting facility. Have the room approved by the Engineer.

108-P02 PUBLIC RELATIONS COORDINATOR: Provide a public relations and information coordinator. The coordinator cannot be the project superintendent or construction foreman. The coordinator should be knowledgeable in construction operations, be able to provide information for effective media releases to the City, possess written and verbal communication skills, and be able to organize productive meetings.

Provide the name, work address, and work phone number to the relevant project, community, and media personnel.

The public relations coordinator is responsible for providing the following:

1. Organizing, scheduling, and conducting the meeting specified in Note 108-P01 WEEKLY PLANNING & REPORTING MEETING.
2. Advise Melissa Richard, from the City of West Fargo, PH: of upcoming construction activities resulting in street closures and traffic detours so that City police, emergency services, schools, and other pertinent City agencies may be notified. Minimum 48 hour notice required prior to closing a road.
3. Provide necessary information for news releases and necessary drawings to the City before and during construction. News release information will inform the public on construction detour routes. Minimum 48 hour notice for press releases prior to any closure, restrictions, or detour route modification. Update news releases regarding construction activities every other week, at a minimum.
4. Be available for media interviews.

201-P01 REMOVAL OF TREES: Do not remove trees unless marked by the Engineer. Provide 48 hour advance notice to Engineer for tree marking.

201-P02 CLEARING & GRUBBING: Remove existing shrubs, bushes, wood mulch, landscaping rock, landscaping boulders, edging, landscaping fabric, & concrete edging located within the limits of construction. Coordinate with Engineer prior to removal of tree. Include all costs for removals in the price bid for "Clearing & Grubbing". The following locations have been identified for clearing and grubbing:

1. All trees less than 8IN in diameter
2. Landscaping as indicated on plans along Sheyenne St in front of Furniture for Less (Francis First Addition Block 1 Lots 9-16)
3. Landscaping as indicated on plans along Sheyenne St in front of Choice Bank (Francis Second Addition Block 6 Lots 1-3)

202-P01 SALVAGE EXISTING FACILITIES: Salvage existing manhole castings and inlet castings. Deliver to City of West Fargo Public Works Building at 810 12th Street NW. Coordinate delivery with City of West Fargo Public Works Street Foreman Dan Birnbaum at 701-433-5400, a minimum of 24 hours in advance. All cost to complete this work will be included in the price bid for "Removal of Manhole" and "Removal of Inlet".

202-P02 REMOVAL OF EXISTING RETAINING WALL: Remove existing retaining wall located at Sta 25+74 Rt (Shepherd of the Valley Church). Protect existing sign and foundations while removing retaining wall. Protect adjacent sidewalk ramp not indicated to be removed. If damage occurs, remove and replace all damaged sidewalk panels and repair sign at the contractor's expense. Include all costs for labor, materials, and equipment necessary to remove retaining wall, wood mulch, and plantings in price bid for "Remove Retaining Wall."

202-P03 REMOVAL OF AGGREGATE SURFACING AND BASE: Removal of aggregate base for streets, sidewalks, and driveways to be included in the price bid for "Common Excavation – Type A".

202-P04 REMOVAL OF SEWER PIPE: Remove existing sanitary sewer and storm sewer pipe, all types and sizes, as designated on the plans. Include all costs for labor, materials, and equipment necessary to remove existing sanitary sewer and storm sewer pipe in the price bid for "Removal of Sewer Pipe."

202-P05 REMOVAL OF PIPE-ALL TYPES AND SIZES: At locations designated on the plans for removal of Asbestos Cement Pipe Water Main, remove and disposed of in accordance with all applicable regulations as described in SP99(20). Include all costs for labor, materials, equipment necessary to remove existing ACP in price bid for "Removal of Pipe-All Types and Sizes."

202-P06 REMOVE EXISTING FENCE: Salvage existing fence at Sta 25+67 Rt (Shepherd of the Valley Church). Provide salvaged fence to property owner in a manner that leaves the materials undamaged and in reusable condition. Include all costs for labor, materials, and equipment necessary to salvage existing fence in the price bid for "Remove Existing Fence."

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202-P07 REMOVAL OF STRUCTURE-SITE 1: Remove & reset existing pylon sign located at Sta 21+26 34.8' Rt (Payroll Express). Install new foundation at Sta 21+15 35.0' Rt to accommodate existing sign. Verify existing foundation dimensions and power supply requirements for new foundation. Remove existing sign foundation. Include all costs for labor, materials, and equipment necessary to remove & reset existing sign in the price bid for "Removal of Structure-Site 1."

202-P08 REMOVAL OF STRUCTURE-SITE 2: Remove & reset existing pylon sign located at Sta 25+75 42.2' Lt (Furniture for Less). Install new foundation at Sta 25+83 59.0' Lt to accommodate existing sign with 2' of base exposed. Verify existing foundation dimensions and bolt pattern for new foundation. Remove existing sign foundation. Include all costs for labor, materials, and equipment necessary to remove & reset existing sign in the price bid for "Removal of Structure-Site 2."

202-P09 REMOVAL OF STRUCTURE-SITE 3: Remove & reset existing pylon sign located at Sta 30+38 34.0' Rt (Classic Floral). Install new foundation at Sta 30+10 36.5' Rt to accommodate existing sign. Verify existing foundation dimensions for new foundation. Remove existing sign foundation. Include all costs for labor, materials, and equipment necessary to remove & reset existing sign in the price bid for "Removal of Structure-Site 3."

203-010 SHRINKAGE: 25 percent additional volume is included for shrinkage in earth embankment.

203-385 AVERAGE HAUL: No average haul has been computed for this project.

203-P01 CONTRACTOR FURNISHED PROCTORS: Determine the optimum moisture and density, as specified in ND T 99, for each type of earth material encountered that requires compaction control. In addition, determine the optimum moisture and density, as specified in ND T 180, for granular material to be used as pipe backfill. Perform a multi-point test using a minimum of 4 points. Submit the results to the Engineer along with a split sample of each material. The Engineer will perform comparison tests using the same procedure on the split sample. Use the Engineer's results for determining in place density of material.

203-P02 COMPACTION AND DENSITY CONTROL: Compact material as specified in Section 203.04 E.2.b, "ND T-99". Compact embankment and pipe backfill material to 95% of the maximum dry density with moisture content no less than optimum moisture and no more than 5.0 percentage points above the optimum moisture.

203-P03 TESTING FREQUENCY: Embankment will be tested per the frequency listed below.

Compaction Curve:	1 for each change in soil
Density and Moisture:	1 test per 350 feet of roadway per 12" lift, 1 test per city block per 12" lift, or 1 test per 500 cubic yards of fill

203-P04 COMMON EXCAVATION-SUBCUT: A quantity of 500 CY has been included to be used as directed by the Engineer.

210-P01 FLOWABLE FILL: Contractor to backfill between structures that are within 36 inches of separation with flowable fill with a strength of 100 psi. 50 CY has been estimated to completely fill the void between structures from the base to subgrade elevation. All cost for labor, materials, and equipment associated with filling void in price bid for "Flowable Fill."

216-P01 WATER FOR GRASS ESTABLISHMENT: Immediately begin watering all seeded and mulched areas to provide a minimum of 1.0 inch depth of moisture per week, no more than 2 times per week, until Final Stabilization per ND Department of Health Construction General Permit NDR10-000. Water only during early morning hours. Reduce water as necessary to account for rainfall during each week. Provide the Engineer weekly reports of watering operations including dates, times and quantity of watering or rainfall amounts to indicate minimum moisture is being obtained. Include all cost for labor, equipment, and water to complete the work in the price bid for "Water".

230-P01 SUBGRADE PREPARATION: Scarify and recompact subgrade areas under the roadway section to a depth of 6 inches.

Proof roll all pavement subgrades prior to aggregate placement, along all travel lanes to verify the uniformity of the underlying subgrade throughout the roadway section and to check for the presence of localized soft or weak zones. Perform proof roll under the observation of the engineer with a fully loaded, tandem axle dump truck with a weight of approximately 25 tons or an approved equal. Proof roll at a vehicle speed of between 1 1/2 and 3 miles per hour along the pavement subgrades such that unrolled areas between wheel paths are not wider than 1 foot. Limit yielding to less than 1 1/2-inches for pavement subgrades, provided the underlying subgrade does not display permanent deformation. Correct areas that display excessive yielding, pumping or rutting during the proof roll. Repeat proof roll procedures until accepted by the Engineer.

Excavation and embankment to be incidental to subgrade preparation.

All costs associated with excavation, embankment, scarifying, recompacting, and proof rolling the subgrade are to be included in the price bid for "Subgrade Preparation-Type A".

251-P01 SEEDING CLASS III: Seed disturbed ground. Apply hydraulic-mulch or bonded fiber matrix after the seed is raked into the topsoil. Use a seed mixture as follows:

Species	Pounds Live Seed/Acre
Kentucky Bluegrass	120
Perennial Ryegrass	60
Durahard Fescue	20

After to seeding wait fertilizer manufacturer recommended time before applying fertilizer. Use fertilizer mixture of 5-10-5 applied at a rate of 50 pounds per acre. Water until grass is established as determined by the Engineer. All cost for labor, equipment, fertilizer, and materials necessary to complete the work included in the price bid for "Seeding Class III".

302-110 BASE COURSE: Trim base course as specified in Section 302.04 C.1, "Surface Tolerance Type B."

302-P01 AGGREGATE BASE COURSE FOR SUBCUT REPAIRS: Aggregate used in subcut repairs is subject to the requirements of 302.04 B. A quantity of 500 CY has been included to be used as directed by the Engineer. Aggregate used in subcut repairs will be paid for at the contract unit price for "Aggregate Base Course Cl 5".

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302-P02 TYPE II PIPE BEDDING: Use Type II Pipe Bedding as directed by the Engineer to replace soft, spongy, or other unsuitable material encountered in the trench bottom when installing sanitary sewer, storm drain, or water main. Type II bedding material consists of 1" to 2" washed rock. Provide dewatering as necessary according to site conditions. Include all costs associated with dewatering, excavation, and disposal of unsuitable material in the price bid for "Type II Pipe Bedding". A quantity has been provided in the plans that represents 25% of the overall underground pipe length.

302-P03 AGGREGATE BASE COURSE CL 5: Meet the gradation as shown in specification Section 816 for Aggregate Base Course CL 5, revising Percent Passing for No. 200 sieve as follows:

Sieve Size	Percent Passing
No. 200	6-10

302-P04 AGGREGATE BASE: Proof roll all aggregate bases prior to paving along all travel lanes to verify the uniformity of the underlying base throughout the roadway section and to check for the presence of localized soft or weak zones. Perform proof roll under the observation of the Engineer with a fully loaded, tandem axle dump truck with a weight of approximately 25 tons or an approved equal. Proof roll at a vehicle speed of between 1 1/2 and 3 miles per hour along the aggregate base such that unrolled areas between wheel paths are not wider than 1 foot. Limit yielding less than 1/2-inches for aggregate bases, provided the aggregate base does not display permanent deformation. Correct areas that display excessive yielding, pumping or rutting during the proof roll. Repeat proof roll procedures until accepted by the engineer.

Include all costs associated with proof rolling the aggregate base in the price bid for "Aggregate Base Course Cl5".

550-P01 SLIP FORM PAVING: All main line concrete pavement is to be placed with a slip form paver. Contractor to provide written request with specific proposed paving plan if slip form paving is not possible. Submit request to Engineer for approval a minimum of 48 hours in advance of paving operations.

704-100 TRAFFIC CONTROL SUPERVISOR: Provide a Traffic Control Supervisor.

704-P01 TRAFFIC CONTROL: Maintain access at all times as indicated in plans. Utilize Standard Drawing list and Section 100 plan sheets for all Traffic Control. Any alterations require the Engineer's approval a minimum of 2 weeks prior to implementing.

704-P02 TRAFFIC CONTROL PHASING: See Section 100 plan sheets, "Work Zone Traffic Control" for overview and detailed layouts of the construction phasing plan. Any alterations require the Engineer's approval a minimum of 2 weeks prior to implementing.

Phase 1
- Close Sheyenne Street to all through traffic from north of 7th Avenue north of 4th Avenue. Contractor to maintain access points for commercial and residential properties as detailed in Section 20 and 100 plan sheets.
- Install temporary watermain connection from Phase 1 watermain at Station 18+56 to existing watermain as detailed in Section 100.
- Complete all work indicated in Interim Completion Date No. 1 prior to changing to Phase 2 traffic control.

Phase 2
- Open Sheyenne Street to all through traffic south of 4th Avenue. Close Sheyenne Street to through traffic from north of 4th Avenue to north of 2nd Avenue. Contractor to maintain access points for commercial properties as detailed in Section 20 and 100 plan sheets.
- Remove temporary watermain connection installed in Phase 1 and connect to Phase 2 watermain. Install temporary watermain connection from Phase 2 watermain at Station 25+99 to existing watermain as detailed in Section 100.
- Complete all work indicated in Interim Completion Date No. 2 prior to changing to Phase 3 traffic control.

Phase 3A
- Open Sheyenne Street to all through traffic south 2nd Avenue. Close Sheyenne Street to through traffic from north of 2nd Avenue to south of Main Avenue.
- Remove temporary watermain connection installed in Phase 2 and connect to Phase 3 watermain.
- Install utilities and pavement as shown in Section 100 Phase 3A. Maintain access points for commercial properties as detailed in Section 20 and 100 plan sheets.

Phase 3B
- Open Sheyenne Street to all through traffic south of 1st Ave. Close Sheyenne Street to through traffic north of 1st Avenue to south of Main Avenue.
- Construct all remaining Work. Maintain access points for commercial properties as detailed in Section 20 and 100 plan sheets.

704-P03 TRAFFIC CONTROL DEVICES: The traffic control devices list for each phase has been developed using traffic control sign layouts (shown in Section 100) and Standard Drawings as listed below:

D-704-04 Work Zone Business Sign Detail
D-704-07, 8, 9, 10: Are applicable.
D-704-13, 14: Are applicable.
D-704-21 Type I for detour sign layout
D-704-26: Type EE and GG for maintaining temporary access.
D-704-51: Portable precast concrete median barriers.

Maintain a minimum 11 foot wide lane at all times.

704-P04 PORTABLE CHANGEABLE MESSAGE SIGN: Install two (2) Portable Changeable Message Signs (PCMS) at the beginning and end locations of the project 2 weeks prior to commencing of work and operating for 3 weeks. The Engineer will determine the locations for PCMS installation. Relocate the PCMS as directed by the Engineer.

Provide an operator trained in the use of the PCMS.

The Engineer will determine the message to be displayed. Program the message within one hour of the Engineer's request to change the message.

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704-P05 TRAVERSABLE DRIVING SURFACE: To facilitate traffic during different phases of construction a traversable driving surface is required where indicated. A traversable surface may be defined as the existing roadway surface, completed concrete roadway surface, completed asphalt wear course surface, completed asphalt base course surface, or an aggregate surface a minimum of 6 inches in depth. A quantity of 100 TON of Traffic Service Aggregate has been included to be used as directed by the Engineer. Include all labor, materials, and equipment necessary to install, maintain, and remove the traversable driving surface in the price bid for "Traffic Service Aggregate."

704-P06 MAINTAINING ACCESS: Maintain a traversable driving surface for two way traffic at all times for resident and business properties along Sheyenne Street. Coordinate and alert residents/businesses regarding phase changes. Coordinate and alert residents/businesses regarding changes to access points, shifting traffic control, and temporary access restrictions along the construction zone with in each phase a minimum of 24 hours in advance. A total of 50 additional delineator drums has been provided to maintain traffic throughout each of the construction phases. Additional signing for changing roadway surfaces, per Standard Detail 704-26 Layout EE and GG, have been accounted for in Section 100 to be used at the Engineer's discretion.

There are four access point conditions that occur on the project. Refer to the following for guidelines related to paving the four access points.

- Residential Driveway - Resident access may be limited for no more than one week in order to construct driveways. Allow residents to park on newly constructed roadway while driveways are not accessible. Locations as described in Section 20.
- Commercial Driveway Type 1 - Two access points, A and B, provided. Alternate access A and B to maintain traffic while constructing driveways. Locations as described in Section 20.
- Commercial Driveway Type 2 - Construct the driveway in phases to maintain traffic. Contractor to contact Lynx Logistics, Dean Pfeifer, 701-373-0660 for access coordination. Locations as described in Section 20.
- 1st Ave - Construct in phases as described in Section 100. Contractor to contact West Fargo Public Schools, Levi Bachmeier, 701-499-1077 for 1st Ave access coordination.

Contractor to minimize disruption to loading dock at Furniture for Less. Coordinate impacts and schedule with owner.

704-P07 WORK ZONE BUISNESS SIGNS: Work zone business way finder signs have been provided and shown in Section 100 for local businesses. Any additional business signs needed throughout the construction of the project will be developed in accordance with Standard Detail D-704-4. As business access changes through the life of the project, per Section 20 Sheet 23, relocate business way finder signs as needed. Exact sign location and names will be determined by the Engineer prior to installation. Include all costs for creating, installing, adjusting by phase, and removing work zone business signs at end of project in the price bid for "Traffic Control Signs".

704-P08 PEDESTRIAN CHANNELIZATION: Provide pedestrian channelization that meets the following requirements:

- Interlocked with a 1" maximum gap between devices;
- Upper rail with a smooth continuous guide handrail positioned 32 to 38 inches above the walkway;
- A smooth lower edge on the pedestrian side of the wall to allow sight impaired cane tapping positioned based on the following requirements:
  - The bottom edge is less than 2 inches above the walkway; and
  - The top edge a minimum of 6 inches above the walkway
- Openings in the bottom of the wall to allow for water passage;
- Support legs that do not impede the clear walkway;
- In compliance with NCHRP Report 350 or MASH Test Level 3 (TL3);
- Channelization portions are orange or white, or a combination of orange and white, in color.

Include all labor to furnish, install, maintain, relocate, and remove pedestrian channelization in the price bid for "Pedestrian Channelization".

708-P01 INLET PROTECTION SPECIAL: Place inlet protection into inlets. Inlet Protection Special to be Flexstorm Catch It by Inlet Pipe Protection Inc., Siltsack Type C by ACF Environmental, or approved Equal. Include all costs for furnishing, installing, maintaining (cleaning), and replacing damaged devices in the bid price for "Inlet Protection Special". Keep all installed devices in place until the turf has been established. If the turf has not been established by November 6th, remove all installed devices in the street section that have potential to cause damage to snow removal equipment. Reinstall these devices in the spring as directed by the Engineer. No additional compensation will be provided as this work is considered normal maintenance.

714-P01 STORM SEWER: All quantities shown for storm sewer are quantified to the center of structure. Payment will be based on Section 714.05 A of the Standard Specifications.

714-P02 STORM DRAIN: Provide bell and spigot with rubber gasket joints for reinforced concrete pipe storm drain.

Install all storm drain pipe crossings of roadways by means of open trenching.

714-P03 LARGE DIAMETER STORM SEWER PIPE: Install POPIT plugs in pipe lift holes (i.e. no concrete plugs) for all 42IN diameter and larger R.C.P. storm sewer.

714-P04 FLAP GATE 18IN: Install Flap Gate 18IN in ST19. Use Tideflex Series TF-2 with an Outside Diameter of 24 inches. Tideflex product to be constructed with curved end oriented to the north. Product to be manufactured with Pure Gum Rubber (PGR) or Neoprene. Include costs for labor, equipment, and materials necessary to complete installation in the price bid for "Flap Gate 18IN."

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714-P05 PIPE POLYETHYLENE CORR PERF 4IN DRAIN: Install 4-inch corrugated drainpipe, wrapped in polyester sock as shown in Sect 85 plan sheets. Encase drainpipe in a 6-inch x 8-inch pea gravel pit. Install perforated drainpipe only within landscape planters; solid pipe to be located between planting beds and storm drain. Drainpipe runs under concrete to be solid 4-inch drainpipe terminating at nearest drain inlet. Ensure positive slope of drain tile to drain inlet.

Include the all materials and aggregate necessary to install the curbing in the unit price for "Pipe Polyethylene Corr Perf 4In Drain".

722-P01 INLETS AND MANHOLE OFFSETS: All inlet and manhole offsets indicated in Section 50, Inlet and Manhole Summary, are to the center of structure. For Inlet Special structures, cast opening in center of cover.

722-P02 MANHOLE CASTINGS: Manhole castings to be installed are as follows. Storm drain castings will have open pickholes and "Storm Sewer" lettering. Sanitary sewer castings will have two closed pickholes, gaskets, and "Sanitary Sewer" lettering.

Grass or Asphalt Pavement:
a) Neenah R-1733
b) East Jordan Iron Works 1205 (Storm Drain)
c) East Jordan Iron Works 1205 A.G.S. (Sanitary Sewer)
d) Approved Equal

Concrete Pavement:
a) Neenah R-1955-1
b) East Jordan Iron Works 3025 SELFLEVEL
c) Approved Equal

722-P03 INLET CASTINGS: Inlet castings to be installed in curb and gutter, grass, or outside of pavement are as follows:

Grass or Outside Pavement:
a) Neenah R-2577 with Convex Casting Grate
b) East Jordan Iron Works 1205-M2 with Convex Casting Grate
c) Approved Equal

Curb & Gutter:
a) Neenah R-3067-C with 2" Radius Open Curb Box
b) East Jordan Iron Works 7030-M2 with T1 Back
c) Approved Equal

Valley Gutter:
a) Neenah R-3347-A
b) Approved Equal

722-P04 CITY OF WEST FARGO SPECIFICATIONS: Refer to Special Provision 99(20) for specifications regarding sanitary sewer and water main items.

722-P05 MANHOLE CASTING: Remove and replace existing manhole castings to be located within proposed concrete paving with floating castings where indicated on the drawings. Include all labor, materials, and equipment to remove and salvage the existing casting, remove existing concrete or plastic adjusting rings, install new plastic adjusting rings, and install new casting in the price bid for "Manhole Casting."

722-P06 ADJUST INLET: Remove casting and adjusting rings, install Inlet Catch Basin base with mastic seal, and backfill excavation. Include all labor, materials, and equipment associated with removing casting and installing cover in the price bid for "Adjust Inlet."

722-P07 ADJUST MANOHLE SPECIAL: Remove casting, adjusting rings, and precast cover of 72" Manhole at Sta 13+45 25.1' Lt. Install new precast cover in accordance with Standard Drawing D-722-5, 1' concrete adjusting ring and other rings as necessary, and Type (Y) casting as specified in Sect 50. Include all labor, materials, and equipment to adjust manhole in the price bid of "Adjust Manhole Special."

722-P08 MANHOLE STORM CONNECTION: All connections to existing storm sewer or sanitary sewer may involve cutting existing structures. Saw storm sewer opening, install pipe and mortar close. Core sanitary sewer opening, install rubber boot, and install pipe. Include all labor and materials required to perform this work in the price bid for storm drain and sanitary sewer bid items.

722-P09 MANHOLES: Storm and sanitary sewer manholes to include external chimney seals by Cretex Specialty Products, Strike Products, or Sealing Systems Inc. Provide steps in only the bottom section of storm sewer manholes and no steps in sanitary sewer manholes. Include all labor, equipment, and manhole external chimney seals in bid price for "Manhole __ In" and "Sanitary Manhole."

722-P10 SANITARY SEWER PIPE: Contractor to accommodate existing sewage flow with installation of new sanitary sewer pipe. Include all labor, materials, and equipment, including possible temporary pumping, necessary to install sanitary sewer pipe in the price bid of "8IN Sanitary Sewer Pipe."

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724-P01 TEMPORARY WATER SERVICE: Contractor to supply temporary water to City water users affected by work.

Residential:
Contractor must provide temporary water service to all affected residential City water users if water service is to be interrupted for more than 4 hours per day.

Businesses:
Contractor to provide temporary water service to all businesses affected by this work. A list of known businesses and estimated existing services sizes are provided below:

- Casey's General Store – 1" Service
- Sheyenne Plaza – 6" Fire Line & 4" Domestic Line
- West Funeral Home – 1" Service
- Hieb Dentistry – 1" Service
- Payroll Express – 1" Service
- Pioneer Place – 6" Fire Line & 4" Domestic Line
- Silver Dollar Flying Pig – 1" Service
- West Fargo Chiropractic – 1" Service
- Choice Bank – 1" Service
- Shepherd of the Valley Church – 1" Service
- Dasch's Duds / Westside Wellness – 2" Service
- Lynx Logistics – 1" Service
- Classic Floral – 1" Service
- Bernie's Wines – 1" Service
- Sandy's Donuts – 1" Service (on Main Ave)
- Cenex– 1" Service (on Main Ave)

Notify the Engineer and City 48 hours prior to disruption of water service. Contact City of West Fargo Public Works Water Foreman Brian Matzke at 701-433-5400 to locate gate valves & coordinate water shut off. Provide a written notice to any home or business 48 hours before disruption of the water service explaining anticipated method of providing temporary water service. Written notice to be approved by Engineer. Include all cost for labor, equipment and material necessary for the installation and removal of temporary water service system in the price bid for "Temporary Water Service."

724-P02 ABANDON WATER MAIN/SERVICE LINE: Where indicated on the plans, fill existing water main pipe completely with controlled density fill or sand, and cap or plug the ends with 4000 psi concrete. Include all labor, materials, and equipment associated with abandoning pipe in the price bid for "Abandon Water Main."

724-P03 ABANDON STORM SEWER: Where indicated on the plans, fill existing storm sewer pipe completely with controlled density fill or sand, and plug the ends with 4000 psi concrete. Include all labor, materials, and equipment, including traffic control, associated with abandoning pipe in the price bid for "Abandon Storm Sewer."

724-P04 WATER LINE CONNECTION 4IN: Remove existing tapping sleeve and connect to existing gate valve at Sta 15+11 11.8' LT & Sta 20+65 12.4' LT. Include all labor, materials, and equipment necessary to complete connection in the price bid for "Water Line Connection 4 In."

724-P05 WATER LINE CONNECTION 6IN: Remove existing tapping sleeve and connect to existing gate valve at Sta 15+05 12.4' LT, Sta 20+45 12.0' LT, & Sta 20+64 12.3' LT. Include all labor, materials, and equipment necessary to complete connection in the price bid for "Water Line Connection 6 In."

724-P06 WATER LINE CONNECTION 8IN: Temporarily connect Watermain PVC 8 In to existing 8 In ACP Watermain between phases 1 & 2 and phases 2 & 3 as shown in Sect 100 plan sheets. Temporary watermain connection to consist of necessary fittings, pipe, removal of ACP watermain, and removal of temporary watermain connection. ACP watermain removal and disposal to follow all applicable regulations as described in SPXXXX(XX). Include all costs for labor, materials, equipment necessary to connect to existing watermain and remove temporary watermain connection in price bid for "Water Line Connection 8 In."

724-P07 CONNECT WATER SERVICE: Verify existing water service size, material, and location prior to installation of connection at watermain and provide necessary fittings to connect new water service from curb stop & box to existing water service. Include all costs for labor, equipment, and material necessary to disconnect and reconnect water service in price bid for "Water Service Connection _In."

724-P08 SPRINKLER RELOCATION: Existing irrigation systems are located within the project limits. Remove and reset irrigation systems to the right of way line. Repair damaged pipe and sprinkler heads. The locations of existing known irrigation systems are listed below:

- West Fargo Chiropractic Center
- Choice Bank
- West Funeral Home

Include all labor, material, and equipment necessary to remove existing sprinkler systems to outside of the right of way in the price bid for "Sprinkler Relocation."

724-P09 ABANDON VALVE BOX: Remove top section of gate valve box and fill bottom sections with sand. Include all labor, materials, and equipment necessary to complete the abandonment of existing gate valve boxes in the price bid for "Abandon Valve Box".

724-P10 WATERMAIN 16IN PVC: Salvage existing 16"x8" Tee at Sta 32+35 12.5' Lt, deliver to City of West Fargo Public Works Building at 810 12th Street NW, remove 5 LF 16" PVC Watermain, install new 5 LF of 16" PVC Watermain C900, and connect to new 16"x8" Tee.

Include all costs for labor, materials, and equipment necessary to deliver salvaged 16"x8" Tee to City of West Fargo Public Works, remove 16" Watermain, install 16" Watermain, and connect to new 16"x8" Tee in price bid for "Watermain 16IN PVC."

748-P01 CURB TYPE I: Pour curb integral with adjacent sidewalk. Include all costs for the labor, equipment, and material necessary to construct the integral curb in the price bid for "Curb Type I."

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748-P02 CURB HEADER-TYPE I: Construct 6-inch wide by 18-inch high cast-in-place concrete curb as shown in the plans. Install (2) two No. 4 deformed reinforcing bar centered vertically with 3-inches clear, both top and bottom and 12-inch No. 4 vertical deformed reinforcing bar spaced 24-inch on center. Provide a ½-inch tooled radius on the top corners of all planter curbs. Saw cut control joints at a minimum of 6-foot not to exceed 8-foot on center; align with adjacent sidewalk slab control joints where possible. Finish grade of the top of all planter curbs will be 6-inches higher than the sidewalk concrete immediately adjacent. Utilize salvaged base course material to construct the required 6-inch depth compacted base. Curb Header-Type I locations shown in Section 85.

Include all costs for the labor, equipment, and material necessary to construct the planter curbs in the price bid for “Curb Header-Type I”.

748-P03 CURB & GUTTER-TYPE 1 SPECIAL. Construct 6-inch wide cast-in-place concrete curb and 12-inch wide gutter, with 5-inch depth, as shown in the plans. Install (3) three No. 4 deformed reinforcing bar centered vertically with 3-inches clear, both top and bottom. Contractor to dowel curb into adjacent concrete pavement with an 18-inch No. 4 smooth dowel spaced 24-inch on center. Provide a ½-inch tooled radius on the top corners of all planter curbs. Saw cut control joints at a minimum of 6-foot not to exceed 8-foot on center; align with adjacent sidewalk slab control joints where possible. Utilize salvaged base course material to construct the required 4-inch depth compacted base. Curb & Gutter-Type 1 Special locations shown in Section 85.

Include the base course necessary to install the curbing in the unit price for “Curb & Gutter-Type 1 Special”.

748-P04 VALLEY GUTTER-TYPE I 48IN: Construct valley gutter in accordance with the details in Section 20 of the plans. All roadway curb and gutter types shown in the plans, 4 ft Valley Gutter and 8 ft Valley Gutter, will be included in the bid price for “Valley Gutter-Type I 48In.”

750-P01 DRIVEWAYS: Driveways to be the thickness as indicated in Section 90 plan sheets and constructed in accordance with the detail in Section 20 plan sheets. Reinforced driveways with No. 4 bars @ 24" on center both ways, placed mid-depth in the slab. All driveways are to be tied to curb and gutter or sidewalk by No. 4 x 12" dowel bars placed mid depth at 24” on center. All joints are to be sawed.

“Driveway Concrete” to be 7in reinforced concrete.

Include all costs for the labor, equipment, and material necessary to construct the driveways in the price bid for “Driveway Concrete” and “Driveway Concrete 6in Reinforced”.

750-P02 SIDEWALKS: Sidewalks to be the thickness as indicated in Section 90 plan sheets and constructed in accordance with the detail in Section 20 and 85 plan sheets. Reinforce all sidewalks with a No. 4 deformed reinforcing bar placed 24 inches on center both ways. Include an 18 inch minimum lap at splice locations. Use plastic chairs to support the bars at mid-depth of the slab and ensure a clearance of 3 inches to all side forms.

Saw all longitudinal and transverse contraction joints at indicated per Section 20 and 85. Saw joints in a timely manner to prevent any uncontrolled random cracking. If random cracking occurs, remove and replace all damaged panels at the contractor’s expense.

All sidewalk ramps to be 6” thick for a minimum of 6’ or to top of ramp, whichever is longer from existing curb and to be tied to curb and gutter with No. 4 x 12” epoxy coated rebar placed mid depth at 18” on center.

Protect surface of adjacent pigmented imprinted concrete from white concrete cure compound.

Include all costs for the labor, equipment, and material necessary to construct the sidewalks in the price bid for “Sidewalk Concrete 4IN” and “Sidewalk Concrete 5IN Reinf.”

750-P03 DETECTABLE WARNING PANELS: Provide gray cast iron materials as specified in Section 885 of the Specification. Install radial or straight panels as indicated in Sect 20 details.

750-P04 PIGMENTED IMPRINTED CONCRETE: Develop a mix design using any size coarse aggregate specified in specification Section 802.01 C.2, "Coarse Aggregate" and with a 60-40 fine aggregate-coarse aggregate ratio.

Provide a pigment from the list below or provide an approved equal. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.

1. Number 908 Asphalt, produced by Soloman Colors, Inc. http://www.solomoncolors.com/
2. Number 860 Dark Gray (Iron Oxide), produced by Davis Colors http:/www.daviscolors.com/

When pigmented imprinted concrete abuts existing pigmented imprinted concrete, match existing color and pattern. Provide 4’x10’ test section of color and pattern for Engineer for approval.

Use the same supplier for all colored concrete placed under the contract.

Add pigment at the ratio recommended by the manufacturer directly into the mixer along with the aggregate, cement, and water. Add pigment while the mixer is operating at mixing speed. Continue mixing for 5 to 10 minutes or between 50 and 100 revolutions.

Form a pattern in the concrete using a roller to create a Fracture Slate pattern.

Cure concrete using curing compound that meets the requirements of ASTM C 309, Type 1. Provide a cure from the list below or provide an approved equal. To be considered an approved equal, the cure must have a minimum of 25% acrylic solids. Apply 2 coats in opposite directions.

1. Clear Guard® Cure and Seal by Butterfield Color
2. Dress & Seal 30™ by L&M Construction Chemicals

Protect surface of adjacent sidewalk concrete from pigmented concrete stains while paving.

Before beginning work, submit a reinforcement jointing plan for pigmented imprinted concrete to the Engineer for approval.

Pigmented Imprinted Concrete to be thickened to 6 inches at curb ramp locations as described in the Sidewalk Note.

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752-P01 TEMPORARY SAFETY FENCE: A quantity of 1000 LF has been added to be used as directed by the Engineer.

754-P01 FLAT SHEET FOR SIGNS: Flat Sheet For Signs-Type XI Refl Sheeting to be 3M Diamond Grade (DG3). Flat Sheet For Signs-Type IV Refl Sheeting to be 3M High Intensity Prismatic Reflective.

754-P02 REMOVE SIGNS & SUPPORTS: Salvage street signs, sign panels, and surface mounted breakaway bases. Deliver to the City of West Fargo Sign Shop at 327L 34th Avenue East. Coordinate delivery with City of West Fargo Street Foreman Dan Birnbaum at 701-433-5400 a minimum of 24 hours in advance.

Include all costs to remove and deliver signs and supports in the price bid for “Flat Sheet for Signs-Type __ Refl Sheeting” and “Steel Galv Posts-Telescoping Perforated Tube”.

754-P03 REMOVE SIGN FOUNDATION: Remove existing sign foundations located at Sta. 24+06 40.6’ Lt (Choice Bank). Include all costs to remove foundation, dispose offsite, and backfill in the price bid for “Remove Sign Foundation”.

762-050 PAVEMENT MARKING: If the Engineer and Contractor agree, plan quantity will be used as the measurement for payment for pavement marking items.

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SECTION 140

770-P01 REMOVE LIGHT STANDARD AND LUMINAIRE: Remove portions of the existing lighting circuits shown on the plans. Coordinate removal with the City of West Fargo. The lighting to remain in place until construction activities require its removal. Poles and fixtures to be turned over to owner and stored at location as directed by owner. Remove existing abandon circuit conductors and conduit as much as possible. Remove and dispose of concrete base and provide compacted backfill in its place. The cost of removing the light standard and base to be paid for at the contract bid price for "Lighting System A."

770-P02 LIGHT STANDARDS: The lighting standards to be 18 feet tall, tapered, painted extruded aluminum, with double bar decorative arm, decorative base with 12" bolt circle, 1" anchor bolts, GFCI receptacle with in use weatherproof cover (15' above grade), and fixed flag holder. The pole finish to be black. Leveling nuts to be used for all anchor bolts. Provide inline fuses with 10A fuses in each phase conductor for each luminaire and receptacle. Furnish enough slack to withdraw fuse holders and all wire connections through handhole 2'. Gelcap type Splice Cover Kit is to be used on all connections. The cost of installing light standards to be paid for at the contract bid price for "Lighting System A."

770-P03 LIGHT STANDARD FOUNDATION: The light standard foundations to be 24 inch diameter round top and 24 inch diameter below the top to a depth of 6 feet. The elevation of the top of base and exact location to be verified with Engineer. Provide a minimum of (2) 2 inch conduit stub-outs from each base. Provide steel reinforcement cage consisting of (4) #3x64" vertical rebar and (4) #3 horizontal rings at 18 inches on center. Provide ½"x10' copper clad round rod. The cost of installing light standard bases to be paid for at the contract bid price for "Lighting System A."

770-P04 LED LUMINAIRE: Luminaries as finished and installed to be approved equal to: Sun Valley OVI-LED-GRB-III-64LED-CW-350MA-MT-1-RAL9005-T (BLK)-CSP-HS , Type III (R3) distribution, multi-volt, wired for 240 V., 5,000K, black finish. All wiring within the lighting standards between distribution conductors and luminaries to be #10 A.W.G. stranded copper, 600-volt, type USE. The cost of installing LED luminaires to be paid for at the contract bid price for "Lighting System A."

770-P05 PAD MOUNT FEEDPOINT:

<u>New Feedpoint #1</u>

Remove the existing feedpoint and turn over to the owner. Provide new 22KAIC rated feedpoint to serve the (4) lighting circuits, (4) festoon circuits, power for portable power distribution boxes, planter receptacles, and future power connections to Focus Areas. The new pad mount feedpoint to be manufactured by Northwoods, States Electric, Povolny or approved equal. The free-standing enclosure to be stainless steel with integral 200 amp single phase meter socket and photocell, with a viewing window for each. The enclosure to be service entrance rated at 200 amp, with a 42 circuit distribution panel with 200 amp main circuit breaker, convenience receptacle,(4) 60/2 breakers for the lighting circuits, (4) 60/2 circuit breakers for festoon circuits, (2) 20/1 circuit breakers for the control circuit and convenience receptacle, (3) 50/2 breakers to be used for owner power distribution box receptacles, and (18) 20/1 GFCI circuit breakers for planter receptacle circuits and future Focus Areas.

Provide (3) 50 amp, 4 wire receptacles in individual backboxes with covers in the enclosure for cord and plug connected temporary power distribution boxes. Provide (1) 3" PVC threaded nipple with threaded caps low on each sidewall of the enclosure to be used for temporary cord entrance.

Provide (8) 60A, 2 pole contactors for light circuit control and festoon circuit control. (4) 30A 2 pole contactors for planter circuit control. Provide an HOA switch for the lighting, HOA switch for festoon circuit control, and an HOA switch for planter circuit control. Auto mode to be photocell controlled.

Provide all branch circuit conduit, junction boxes, conduit rough ins, and wiring associated with feedpoint as shown on plan.

The existing concrete pedestal for the new free standing feedpoint to be reused. The existing concrete pedestal measures 28"X28" and is elevated 18" above grade. The new feedpoint to be manufactured to fit on the existing concrete pedestal. The secondary service conductors to the feedpoint to be furnished by Xcel Energy. The cost of removing existing feedpoint and installing new feedpoint #1 and associated branch circuiting to be paid for at the contract bid price for "Lighting System A."

<u>New Feedpoint #2</u>

Provide new 22KAIC rated feedpoint on concrete pedestal to serve the power for portable power distribution boxes, planter receptacles, and future power connections to Focus Areas. The new pad mount feedpoint to be manufactured by Northwoods, States Electric, or Povolny or approved equal. The free standing enclosure to be stainless steel with integral 200 amp single phase meter socket and photocell, with a viewing window for each. The enclosure to be service entrance rated at 200 amp, with a 42 circuit distribution panel with 200 amp main circuit breaker, convenience receptacle, (2) 20/1 circuit breakers for the control circuit and convenience receptacle, (3) 50/2 breakers for owner power distribution box receptacles, and (18) 20/1 GFCI circuit breakers to serve planter receptacles circuits and future Focus Areas.

Provide (3) 50 amp, 4 wire receptacles in individual backboxes with covers in the enclosure for cord and plug connected portable power distribution box receptacles. Provide (1) 3" PVC threaded nipple with threaded caps low on each sidewall of the enclosure to be used for temporary cord entrance.

Provide (6) 30A 2 pole contactors for planter circuit control. Provide an HOA switch for planter circuit control. Auto mode to be photocell controlled.

Provide all branch circuit conduit, junction boxes, conduit rough ins, and wiring associated with feedpoint as shown on plan.

The concrete pedestal to be elevated 18" above grade. Coordinate with utility to provide a 120/240 volt, 200 amp, single phase service to the feedpoint. The secondary service conductors to the feedpoint to be furnished by Xcel Energy. The cost of installing new feedpoint #2 and associated branch circuiting to be paid for at the contract bid price for "Custom Electrical Panel."

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New Feedpoint #3

Provide 22KAIC rated feedpoint on concrete pedestal to serve the power for portable power distribution boxes, planter receptacles, and future power connections to Focus Areas. The new pad mount feedpoint to be manufactured by Northwoods, States Electric, or Povolny or approved equal. The free standing enclosure to be stainless steel with integral 200 amp single phase meter socket and photocell, with a viewing window for each. The enclosure to be service entrance rated at 200 amp, with a 42 circuit distribution panel with 200 amp main circuit breaker, convenience receptacle,(2) 20/1 circuit breaker for the control circuit and the convenience receptacle, (3) 50/2 breakers for owner power distribution box receptacles, and (18) 20/1 GFCI circuit breakers to serve planter receptacle circuits and future Focus Areas.
Provide (3) 50 amp, 4 wire receptacles in individual backboxes with covers in the enclosure for cord and plug connected portable power distribution box receptacles. Provide (1) 3" PVC threaded nipples with threaded caps low on each sidewall of the enclosure to be used for temporary cord entrance.

Provide (10) 30A 2 pole contactors for planter circuit control. Provide an HOA switch for planter circuits control. The Auto mode to be photocell controlled.
Provide all branch circuit conduit, junction boxes, conduit rough ins, and wiring associated with feedpoint as shown on plan.

The concrete pedestal to be elevated 18" above grade. Coordinate with utility to provide a 120/240 volt, 200 amp, single phase service to the feedpoint. The secondary service conductors to the feedpoint to be furnished by Xcel Energy. The cost of installing new feedpoint #3 and associated branch circuiting to be paid for at the contract bid price for "Custom Electrical Panel."

770-P06 2 INCH DIAMETER RIGID CONDUIT AND UNDERGROUND CONDUCTOR: Furnish and install rigid conduit and single USE conductors for the street lighting and festoon circuits sized as shown on plans. The cost to furnish conduit and conductors to be paid for at the contract price bid for rigid and underground conductors. The cost of installing conduit with single conductors to be paid for at the contract bid price for "Lighting System A."

770-P07 INGROUND LIGHTING; Furnish and install (4) in ground lighting fixtures at each Focus Area as shown on plans sheets. Locate fixture base as shown on Hardscape plan sheets details. The fixtures to be an approved equal to: Hydrel M9400C, round door, double lens, stainless steel door and trim ring, 20W, 4000K, narrow flood, flat lens clear, 10 degrees optical tilt, slip resistant. Wire and connect to lighting circuit in adjacent light base as shown on plan via ¾" C, 2 #10+G. Provide fuse holder for each phase conductor in the light base fused at 5 amps. The cost of installing in ground lighting to be paid for at the contract bid price for "Lighting System (Landscape)."

770-P08 COMMUNICATION CONDUIT/JUNCTION POINTS; Furnish and install in-ground junction points and communication conduits as shown on plans sheets. Provide a fiber optic "backbone" cable in one 2" conduit as described on plan sheets. Provide conduit rough ins from j-points to designated areas as shown on the plan sheets. The cost of installing communication j-points, conduit rough ins, and Fiber Optic cabling to be paid for at the contract bid price for "IT System."

770-P09 OUTDOOR GROUND BOXES; Furnish and install outdoor ground boxes in the planter beds as shown on plans sheets. Provide ¾"C, (2) #10 =#10 G to feedpoint or junction box as shown on the plan sheets. The cost of installing outdoor ground boxes and cabling to be paid for at the contract bid price for "Service Outlets."

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SECTION 85

930-P01 RETAINING WALL. Construct seat-wall planter as shown in the plans and per details. Provide cast-in-place wall over concrete piers and grade beam. Place 4-inch void form between concrete piers. Brick face to be running bond pattern with 3/8” mortar joints. Recess the third brick course from the top by 1/2"-inch. Dowel coping to concrete wall and top of brick face with a mortar setting bed. Approved manufacturers for brick and coping are as follows:

Modular Brick

Color Mix:

- 40% Opus
- 40% Slate Gray Smooth
- 20% Sea Gray #12, Texture: Velour

Hebron Brick Supply, http://www.hebronbrick.com/
Endicott Clay Bricks Company, http://www.endicott.com/
The Belden Crick Company, http://www.beldenbrick.com/
Or approved equal

Precast Coping

Color: Standard available colors
Finish: Honed
Edge: 1/2-inch Round over
US Stone, https://www.usstoneindustries.com/

Include all costs for the labor, equipment, and material, including foundations, necessary to construct the seat-wall planters in the price bid for “RETAINING WALL”.

970-P01 LANDSCAPE PLANTINGS. Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant Schedule as indicated on Drawings and complying with ANSI Z60.1, the American Standard for Nursery Stock, as published by AmericanHort 2014. Install plantings per following notes:

Install trees with root flare visible before planting.

Prepare planting area for soil placement and mix planting soil according to 970-P03 “Planting Soil”. Place and mix planting soil in-place over exposed subgrade. Before planting, obtain Landscape Architect's acceptance of finish grading. Restore planting areas if eroded or otherwise disturbed after finish grading.

Excavate planting pits with sides sloping inward. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation. Excavate approximately three times as wide as ball diameter. Excavate at least 12 inches wider than root spread and deep enough to accommodate vertical roots for bare-root stock. Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.

At time of planting, landscape contractor to verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, landscape contractor to verify that root ball still meets size requirements.

Roots: Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break. Set each plant plumb and in center of planting pit or trench with root flare 1 inch above adjacent finish grades.

Balled and Burlapped Stock: Utilize planting soil according to 970-P03. After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.

Container-Grown Stock: Carefully remove root ball from container without damaging root ball or plant.

Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.

Continue backfilling process. Water again after placing and tamping final layer of soil.

Remove only dead, dying, or broken branches. Do not prune for shape. Do not apply pruning paint to wounds.

Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Fill in, as necessary, soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.

Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated pest management practices when possible to minimize use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents. Apply pesticides and other chemical products and biological control agents according to authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Contractor to notify Owner prior to each application.

Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

At time of Substantial Completion, verify that tree-watering devices are in good working order and leave them in place. Replace improperly functioning devices.

Contractor to provide warranty for all plant material of one growing season, but no more than one year, from the date of Substantial Completion.

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970-P02 STRUCTURAL SOIL. Furnish and install structural planting soil Structural soil mix to be a uniformly blended mixture of crushed Stone, Clay Loam and Hydrogel, mixed to the following proportion:

Material: Unit of Weight:
Crushed Stone 100 units dry weight
Loam as determined by the test of the mix (approx. 20 units)
Hydrogel 0.03 units dry weight
Total moisture AASHTO T-99 optimum moisture

Install subsurface drain lines as shown in the plans prior to installation of Structural Soil material.

Excavate and compact the proposed subgrade to depths, slopes and widths as shown in the plans. Compacted subgrades of adjacent pavement or structures to not be over excavated.

Install Structural Soil in 6-inch lifts and compact each lift.

Install Structural Soils to finished grades as shown in the plans. Structural Soil material to be protected from contamination by toxic materials, trash, debris, water containing cement, clay, silt or materials that will alter the particle size distribution of the mix with plastic or plywood as directed by the Architect.

After the initial placement and rough grading of the Structural Soil but prior to the start of fine grading, the Contractor to request review of the rough grading by the Landscape Architect. The Contractor to set sufficient grade stakes for checking the finished grades. Adjust the finish grades to meet field conditions as directed. Provide smooth transitions between slopes of different gradients and direction. Fill all dips with structural soil and remove any bumps in the overall plane of the slope. The tolerance for dips and bumps in Structural Soil areas to be a 3” deviation from the plane in 10’. All fine grading to be inspected and approved by the Landscape Architect prior to the installation of other items to be placed on the Structural Soil.

Include all work required to furnish, prepare, deliver, and install planting soil to the depths shown in the plans in the price bid for “Structural Soil”.

970-P03 PLANTING SOIL. Furnish and install planting soil mixture in the areas and depths shown in the plans, including all tree pits and planting beds within sidewalks and curb extension areas as described below.

Remove topsoil and subsoil excavated in each proposed planting hole.

Backfill all tree pits with imported soil, see details in Sect 85.

Apply and mix unamended soil with amendments on-site to produce required planting soil.

Amend topsoil with a mixture of peat moss, topsoil, and sand in a ratio of 1:1:1 by volume. Provide sand that 100% passes a 3/8-inch sieve. Provide peat moss, finely divided or of granular texture with 100 percent passing through a 1/2-inch sieve, a pH of 3.4 to 4.8, and a moisture content not exceeding 60% by weight.

Clean topsoil to be free of the following:

- Unacceptable Materials: Concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
- Unsuitable Materials: Stones, roots, plants, sod, clay lumps, and pockets of coarse sand that exceed a combined maximum of 8 percent by dry weight of the imported soil.
- Large Materials: Stones, clods, roots, clay lumps, and pockets of coarse sand exceeding 2 inches in any dimension.

Spread unamended soil to total depth as required to meet finish grades after mixing with amendments and natural settlement. Do not spread if soil or subgrade is frozen or excessively wet.

Lifts: Apply and mix unamended soil and amendments in lifts not exceeding 8 inches in loose depth for material compacted by compaction equipment, and not more than 6 inches in loose depth for material compacted by hand-operated tampers.

Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:

- Storage of construction materials, debris, or excavated material.
- Parking vehicles or equipment.
- Vehicle traffic.
- Foot traffic.
- Erection of structures.
- Impoundment of water.
- Excavation or other digging unless otherwise indicated.

Include all work required to furnish, prepare, deliver, and install planting soil to the depths shown in the plans in the price bid for “Planting Soil”.

970-P04 WOOD MULCH: Furnish and install triple shredded hardwood mulch. Install pre-emergent herbicide on exposed soils, per manufacturer’s written instructions prior to placement of mulch. Mulch backfilled surfaces of planting areas and other areas indicated. Apply 4-inch average thickness of mulch over whole surface of planting area, to a height matching adjacent finish grade or 2 inches below planter edges. Do not place mulch within 2 inches of trunks or stems.

Include all work required to deliver and install wood mulch to planting beds as shown in the plans in the price bid for “Wood Mulch”.

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970-P05 LANDSCAPE INTERLOCKING BLOCK. Furnish and install solid interlocking concrete paving units complying with ASTM C 936/C 936M made from normal-weight aggregates over graded aggregate base. Approved manufacturers are as follows:

County Materials Corporation (Influence™ Pavers)
Unilock (Promenade™ Plank Paver)
Or approved equal

Concrete Pavers: Solid paving units complying with ASTM C 1491, made from lightweight concrete.
Style: Plank Paver consisting of 3 or more paver units where depth and height are equal and have varying lengths to create a running bond pattern.
Thickness: 3 1/8-inches
Face Size and Shape: Rectangular with sizes based on manufacturer's product line.
Color: Match Landscape Architect's sample and blend as basis of design:

County Materials- Influence Pavers

Color	ø Proprietary Color	ø Ratio
Light Grey	ø Dream	ø 40%
Charcoal	ø Reflection	ø 40%
Cream	ø Vision	ø 20%

Compact soil subgrade uniformly. Place aggregate base, compact by tamping with plate vibrator, and screed to depth indicated. Place 4 oz. separation geotextile filter fabric over compacted base course, overlapping ends and edges at least 12 inches. Woven geotextile fabric, manufactured for separation applications; made from polyolefins or polyesters, with elongation less than 50 percent; complying with AASHTO M 288.

Place sand leveling course and screed to a thickness of 1 inch, taking care that moisture content remains constant and density is loose and uniform until pavers are set and compacted. Sand to be Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33/C 33M for fine aggregate.

Set pavers with a minimum joint width of 1/16 inch and a maximum of 1/8 inch, being careful not to disturb leveling base. If pavers have spacer bars, place pavers hand tight against spacer bars. Use string lines to keep straight lines. Fill gaps between units that exceed 1/2-inch with pieces cut to fit from full-size unit pavers. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.

Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a 3500- to 5000-lbf compaction force at 80 to 90 Hz. Use vibrator with neoprene mat on face of plate or other means as needed to prevent cracking and chipping of pavers. Perform at least three passes across paving with vibrator.

Spread dry polymeric sand, a mixture of polymer binders and calibrated sand, that meets ASTM C144 for gradation; fill joints immediately after vibrating pavers into leveling course. Vibrate pavers and add sand until joints are completely filled, then remove excess sand. Leave a slight surplus of sand on the surface for joint filling.

Include all work required to furnish, deliver, and install concrete paving as shown in the plans in the price bid for "Landscape Interlocking Block".

970-P06 BENCH. Furnish and install bench seating. All benches to be surface mounted to the concrete pavement at the proposed locations per manufacturer's recommendations and standard details. Use stainless steel hardware for securing and leveling benches. Install benches after landscaping and paving have been completed. Install bench seating level, plumb, true, and securely anchored at locations indicated on Drawings. Approved manufacturers are as follows:

Victor Stanley, Bench with backrest, 6-foot
Model: CBF-12
Color: Black
Installation: Surface mount

Sitescapes, Bench with arched backrest, 6-foot
Model: CV1-1210
Color: Onyx
Installation: Surface mount

Include all work necessary to provide and install trash receptacles in the unit price bid for "Bench"

970-P07 TRASH RECEPTACLE. Furnish and install trash receptacles. All trash receptacles to be surface mounted to the concrete pavement at the proposed locations per manufacturer's recommendations and standard details. Use stainless steel hardware for securing and leveling trash receptacles. Unless otherwise indicated, install trash receptacles after landscaping and paving have been completed. Install trash receptacles level, plumb, true, and securely anchored at locations indicated on Drawings. Approved manufacturers are as follows:

Victor Stanley, Domed trash receptacle
Model: A-36
Color: Black
Installation: Surface mount

Forms+Surfaces, Domed trash receptacle
Model: SLURB-36SO
Grillwork Design: Vertical
Color: Black
Installation: Surface mount

Sitescapes, Domed trash receptable
Model: CV2-2001PF
Size: 36 Gallon
Lid Option: Dome Top
Installation: Surface mount
Color: Black Powder Coat

Include all work necessary to provide and install trash receptacles in the unit price bid for "Trash Receptacles".

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970-P08 BIKE RACKS. Furnish and install bike racks. All bike racks to be surface mounted to the concrete pavement per manufacturer's recommendations and standard details. Use stainless steel hardware for securing and leveling bike rack. Install site furnishings after landscaping and paving have been completed. Install site furnishings level, plumb, true, and securely anchored at locations indicated on Drawings. Approved manufacturers are as follows:

Dero, Bike rack
Model: Arc Rack
Color: Black
Installation: Surface mount

Forms+Surfaces
Model: SKTWS
Color: TBD (Color from standard options)
Installation: Surface mount

Sitescapes
Model: CR2-02-SM
Color: Black
Installation: Surface Mount

Include all work necessary to provide and install bike racks in the unit price bid for "Bike Rack".

970-P09 CAST IRON TREE GRATES. Furnish and install 48" square cast iron tree grates as shown on plans, per manufacturer's instructions. Install tree grate frame from same manufacturer as the tree grate. Coordinate with other trades to ensure proper placement and installation of embedded tree grate frames. The following are approved manufacturers:

EJ Americas, Tree grate and frame
Model: Sunray (00867103)
Tree Opening: 24-inch Dia.
Installation: Surface mount
Frame: 48954011 or 48954010

Include all work necessary to provide and install bike racks in the unit price bid for "Cast Iron Tree Grate".

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970-P10 LANDSCAPE PREPARATIONS: Remove & reset landscaping features such as landscape rock, landscape fabric, landscape block, edging, and mulch in areas indicated in Section 40 plan sheets. Locations of landscaping material to be removed & reset include:

- 601 Sheyenne St
- Hieb Dentistry

Include all costs for the labor, equipment, and material necessary to remove & reset landscaping in the price bid for “Landscaping Preparations.”

970-P11 REPLANT TREES: Relocate tree at Sta 24+42 45.2’ Lt to Sta 24+20 52.8’ Lt. Include removing and resetting landscape metal edging and landscape rock, installing new 4 oz. non-woven landscape fabric, relocating tree, and restoring site in price bid for “Replant Tree”.

990-P01 GUARD POST-REMOVABLE: Install removable bollard with sleeve insert into concrete as described in Section 20 plan sheets. Install 24” x24” concrete base with #4 rebar cage reinforcement. Include all labor, materials, and equipment necessary to complete the work in price bid for “Guard Post-Removable.”

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Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	FEDERAL AID ELIGIBLE	100% CITY	DRAINAGE		TOTAL
103	0100	CONTRACT BOND	L SUM	1				1
105	0200	POTHOLE UTILITY	EA	3				3
201	0330	CLEARING & GRUBBING	L SUM	1				1
201	0370	REMOVAL OF TREES 10IN	EA	12				12
201	0390	REMOVAL OF TREES 30IN	EA	1				1
202	0108	REMOVAL OF STRUCTURE-SITE 1	L SUM	1				1
202	0109	REMOVAL OF STRUCTURE-SITE 2	L SUM	1				1
202	0110	REMOVAL OF STRUCTURE-SITE 3	L SUM	1				1
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	15375	1038			16413
202	0130	REMOVAL OF CURB & GUTTER	LF	4308	1254			5562
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	2670	2176			4846
202	0173	REMOVAL OF SEWER PIPE	LF	5343				5343
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1107				1107
202	0210	REMOVAL OF MANHOLES	EA	23				23
202	0230	REMOVAL OF INLETS	EA	29				29
202	0292	REMOVAL OF EXISTING RETAINING WALL	L SUM	1				1
202	0312	REMOVE EXISTING FENCE	LF	66				66
203	0101	COMMON EXCAVATION-TYPE A	CY	5025				5025
203	0109	TOPSOIL	CY	234	129			363
203	0138	COMMON EXCAVATION-SUBCUT	CY	500				500
210	0212	FLOWABLE FILL	CY	50				50
216	0100	WATER	M GAL	181				181
230	0300	SUBGRADE PREPARATION-TYPE A	STA	30.1	7.4			37.5
251	0300	SEEDING CLASS III	ACRE	0.29	0.16			0.45
253	0201	HYDRAULIC MULCH	ACRE	0.57	0.32			0.89
302	0050	TRAFFIC SERVICE AGGREGATE	TON	100				100
302	0120	AGGREGATE BASE COURSE CL 5	TON	4913	1047			5960
302	9970	TYPE II PIPE BEDDING	CY		332	629		961
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	509	434			943
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	SY	784	217			1001
550	0117	9IN NON-REINF CONCRETE PAVEMENT CL AE	SY	8440	898			9338
702	0100	MOBILIZATION	L SUM	1				1
704	0100	FLAGGING	MHR	300				300
704	1000	TRAFFIC CONTROL SIGNS	UNIT	2406				2406
704	1052	TYPE III BARRICADE	EA	30				30
704	1054	SIDEWALK BARRICADE	EA	24				24
704	1056	PEDESTRIAN CHANNELIZATION	LF	500				500
704	1060	DELINEATOR DRUMS	EA	107				107
704	4011	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2				2
708	1540	INLET PROTECTION - SPECIAL	EA	104				104
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	104				104
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	11059	4185			15244
714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN	LF	69				69
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	1146				1146
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF			330		330
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	LF			320		320
714	0870	PIPE CONC REINF 33IN CL III-STORM DRAIN	LF			11		11

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Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	FEDERAL AID ELIGIBLE	100% CITY	DRAINAGE		TOTAL
714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN	LF			557		557
714	1110	PIPE CONC REINF 48IN CL III-STORM DRAIN	LF			174		174
714	1212	PIPE CONC REINF 54IN CL III-STORM DRAIN	LF			997		997
714	6580	PIPE POLYETHYLENE CORR PERF 4IN DRAIN	LF	2044				2044
714	7033	PIPE PVC 15IN	LF	36				36
714	8498	CASING PIPE 18IN	LF		20			20
714	9696	EDGEDRAIN NON PERMEABLE BASE	LF	4060	1718			5778
714	9910	FLAP GATE 18IN	EA	1				1
722	0100	MANHOLE 48IN	EA	9				9
722	0110	MANHOLE 60IN	EA	15				15
722	0120	MANHOLE 72IN	EA	2				2
722	0130	MANHOLE 84IN	EA	4				4
722	0140	MANHOLE 96IN	EA	9				9
722	0300	MANHOLE SANITARY	EA		6			6
722	0315	MANHOLE CASTING	EA	2				2
722	1100	MANHOLE RISER 48IN	LF	39				39
722	1110	MANHOLE RISER 60IN	LF	78				78
722	1120	MANHOLE RISER 72IN	LF	8				8
722	1130	MANHOLE RISER 84IN	LF	20.6				20.6
722	1140	MANHOLE RISER 96IN	LF	73				73
722	3297	ABANDON STORM SEWER	LF	385				385
722	3510	INLET-TYPE 2	EA	46				46
722	3520	INLET-TYPE 2 DOUBLE	EA	3				3
722	3701	INLET SPECIAL-TYPE 2 48IN	EA	3				3
722	3761	INLET SPECIAL-TYPE 2 60IN	EA	1				1
722	3900	INLET SLOTTED DRAIN 12IN	LF	20				20
722	6160	ADJUST INLET	EA	1				1
722	6201	ADJUST MANHOLE SPECIAL	EA	1				1
724	0210	FITTINGS-DUCTILE IRON	LBS		3580			3580
724	0270	REMOVE GATE VALVE & BOX	EA	12				12
724	0290	GATE VALVE & BOX 4IN	EA		1			1
724	0300	GATE VALVE & BOX 6IN	EA		14			14
724	0310	GATE VALVE & BOX 8IN	EA		10			10
724	0411	6IN HYDRANT	EA		3			3
724	0430	REMOVE HYDRANT	EA	3				3
724	0611	WATER SERVICE LINE 1IN	LF		314			314
724	0621	WATER SERVICE LINE 2IN	LF		111			111
724	0636	WATER SERVICE LINE 6IN	LF		147			147
724	0670	TEMPORARY WATER SERVICE	L SUM		1			1
724	0790	WATERMAIN 4IN PVC	LF		81			81
724	0810	WATERMAIN 6IN PVC	LF		80			80
724	0830	WATERMAIN 8IN PVC	LF		3499			3499
724	0852	WATERMAIN 16IN PVC	LF		5			5
724	0955	WATER SERVICE CONNECTION 1IN	EA		12			12
724	0960	WATER SERVICE CONNECTION 2IN	EA		3			3
724	0970	WATER LINE CONNECTION 4IN	EA		2			2
724	0975	WATER LINE CONNECTION 6IN	EA		3			3

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Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	FEDERAL AID ELIGIBLE	100% CITY	DRAINAGE		TOTAL
724	0980	WATER LINE CONNECTION 8IN	EA		2			2
724	1035	SPRINKLER RELOCATION	L SUM	1				1
724	1110	8IN SANITARY SEWER PIPE	LF		763			763
724	6013	ABANDON VALVE BOX	EA	6				6
724	6031	ABANDON WATER MAIN/SERVICE LINE	LF	2372				2372
744	0100	POLYSTYRENE INSULATION BOARD	BD FT		1664			1664
748	0140	CURB & GUTTER-TYPE I	LF	433	57			490
748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	1061				1061
748	0190	CURB & GUTTER-TYPE I 30IN	LF	4318	1230			5548
748	0500	CURB HEADER-TYPE I	LF	540				540
748	0520	CURB-TYPE I	LF	153	14			167
748	1080	VALLEY GUTTER-TYPE I 48IN	SY	293	127			420
750	0030	PIGMENTED IMPRINTED CONCRETE	SY	1414	251			1665
750	0115	SIDEWALK CONCRETE 4IN	SY	294	184			478
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	4515	125			4640
750	1000	DRIVEWAY CONCRETE	SY	654	166			820
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	SY	62	125			187
750	2115	DETECTABLE WARNING PANELS	SF	632.6	44			676.6
752	0911	TEMPORARY SAFETY FENCE	LF	1000				1000
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	209.1	1.5			210.6
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	67.5				67.5
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	193	13			206
754	0592	RESET SIGN PANEL	EA	1				1
754	1104	REMOVE SIGN FOUNDATION	EA	1				1
762	0112	EPOXY PVMT MK MESSAGE	SF	64				64
762	0113	EPOXY PVMT MK 4IN LINE	LF	1114				1114
762	0115	EPOXY PVMT MK 8IN LINE	LF	212				212
762	0117	EPOXY PVMT MK 24IN LINE	LF	34				34
762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	64				64
762	1250	PREFORMED THERMO PLASTIC PVMT MK 4IN LINE	LF	243				243
762	1280	PREFORMED THERMO PLASTIC PVMT MK MESSAGE	SF	48				48
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	4901	340			5241
762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	201				201
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	1541				1541
770	0003	LIGHTING SYSTEM A	EA	1				1
770	9271	CUSTOM ELECTRICAL PANEL	EA	1				1
770	9273	SERVICE OUTLET	EA	1				1
770	9404	LIGHTING SYSTEM (LANDSCAPE)	L SUM	1				1
772	9200	IT SYSTEM	EA	1				1
930	9543	RETAINING WALL	SF	1273				1273
970	0004	LANDSCAPE INTERLOCKING BLOCK	SF	858				858
970	0007	LANDSCAPE PREPARATION	EA	1				1
970	0050	STRUCTURAL SOIL	CY		161			161
970	0060	PLANTING SOIL	CY	353				353
970	0074	WOOD MULCH	CY	43				43
970	0095	HERBICIDE WEED CONTROL	ACRE	0.58	0.32			0.9
970	0300	BENCH	EA	14				14

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	8	4

Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	FEDERAL AID ELIGIBLE	100% CITY	DRAINAGE		TOTAL
970	0320	TRASH RECEPTACLE	EA	8				8
970	0450	BIKE RACKS	EA	8				8
970	0600	CAST IRON TREE GRATES	EA	7				7
970	1000	TREES	EA	20				20
970	1012	SHRUBS GROUP A	EA	27				27
970	1025	REPLANT TREES	EA	1				1
970	1030	PERENNIALS GROUP A	EA	1033				1033
990	0221	GUARD POST-REMOVABLE	EA	6				6

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041	10	1

BASIS OF ESTIMATE

Material Unit Weights – Proposed
Commercial Grade Hot Mix Asphalt: 2.0 TON/CY

Aggregate Base (Includes
25% Shrinkage Factor): 1.875 TON/CY

Asphalt Pavement
HBP Tack Coat to be placed at 0.05 Gal/SY. One application of tack between each lift. Included with bid item Commercial Grade Hot Mix Asphalt.

PG 58H-28 Asphalt Cement at 6% of Hot Bituminous Pavement. Included with bid item Commercial Grade Hot Mix Asphalt.

Water
Dust Palliative: 25 M Gal/Mile
Aggregate: 20 Gal/Ton
Embankment: 10 Gal/CY
Seeding: 5.6 Gal/SY/Week *Assume 8 weeks
Subgrade Preparation: 25 M Gal/Mile

Herbicide Weed Control
2 applications over the total area of permanent seeding for weed control as needed.

230 0300 SUBGRADE PREPARATION-TYPE A (Federally Eligible)

Road	Alignment	Station Range	Quantity
Sheyenne Street	<PRSHEYENNE>	Sta 7+99.77 to Sta 32+46.80	24.47 Sta
1st Ave	<PR1ST>	Sta 140+12.00 to Sta 140+61.15	0.49 Sta
2nd Ave E	<PR2ND_E>	Sta 130+12.00 to Sta 130+61.20	0.49 Sta
2nd Ave W	<PR2ND_W>	Sta 123+12.00 to Sta 123+66.17	0.54 Sta
3rd Ave	<PR3RD>	Sta 110+12.00 to Sta 110+67.91	0.56 Sta
4th Ave	<PR4TH>	Sta 100+12.00 to Sta 102+49.73	2.38 Sta
5th Ave E	<PR5TH_E>	Sta 90+12.00 to Sta 90+40.95	0.29 Sta
5th Ave W	<PR5TH_W>	Sta 82+13.64 to Sta 82+41.02	0.27 Sta
6th Ave E	<PR6TH_E>	Sta 70+12.00 to Sta 70+41.50	0.30 Sta
6th Ave W	<PR6TH_W>	Sta 62+12.00 to Sta 62+42.36	0.30 Sta
		Total =	30.1 Sta

230 0300 SUBGRADE PREPARATION-TYPE A (Federally Eligible)

Road	Alignment	Station Range	Quantity
Sheyenne Street	<PRSHEYENNE>	Sta 7+99.77 to Sta 32+46.80	24.47 Sta
1st Ave	<PR1ST>	Sta 140+12.00 to Sta 140+61.15	0.49 Sta
2nd Ave E	<PR2ND_E>	Sta 130+12.00 to Sta 130+61.20	0.49 Sta
2nd Ave W	<PR2ND_W>	Sta 123+12.00 to Sta 123+66.17	0.54 Sta
3rd Ave	<PR3RD>	Sta 110+12.00 to Sta 110+67.91	0.56 Sta
4th Ave	<PR4TH>	Sta 100+12.00 to Sta 102+49.73	2.38 Sta
5th Ave E	<PR5TH_E>	Sta 90+12.00 to Sta 90+40.95	0.29 Sta
5th Ave W	<PR5TH_W>	Sta 82+13.64 to Sta 82+41.02	0.27 Sta
6th Ave E	<PR6TH_E>	Sta 70+12.00 to Sta 70+41.50	0.30 Sta
6th Ave W	<PR6TH_W>	Sta 62+12.00 to Sta 62+42.36	0.30 Sta
		Total =	30.1 Sta

722 0315 MANHOLE CASTING

Type	Alignment	Station	Offset	Existing Elevation	Proposed Elevation	Quantity
Storm Sewer	<PRSHEYENNE>	Sta 27+27	5.2' Rt	898.15	897.89	1 EA
Storm Sewer	<PRSHEYENNE>	Sta 32+17	5.0' Rt	902.26	902.21	1 EA
					Total=	2 EA

722 6201 ADJUST MANHOLE SPECIAL

Type	Alignment	Station	Offset	Existing Elevation	Proposed Elevation	Quantity
Storm Sewer	<PRSHEYENNE>	Sta 13+45	25.1' Lt	896.36	897.70	1 EA
					Total=	1 EA

990 0221 GUARD POST-REMOVABLE

Type	Alignment	Station	Offset	Quantity
Removable	<PRSHEYENNE>	Sta 10+96	6.0' Lt	1 EA
Removable	<PRSHEYENNE>	Sta 10+96	0.0'	1 EA
Removable	<PRSHEYENNE>	Sta 10+96	6.0' Rt	1 EA
Removable	<PRSHEYENNE>	Sta 24+76	6.0' Lt	1 EA
Removable	<PRSHEYENNE>	Sta 24+76	0.0'	1 EA
Removable	<PRSHEYENNE>	Sta 24+76	6.0' Rt	1 EA
			Total=	6 EA

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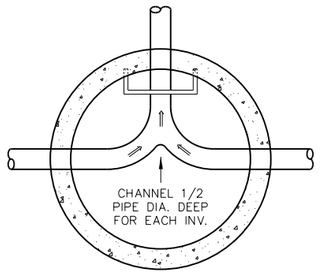
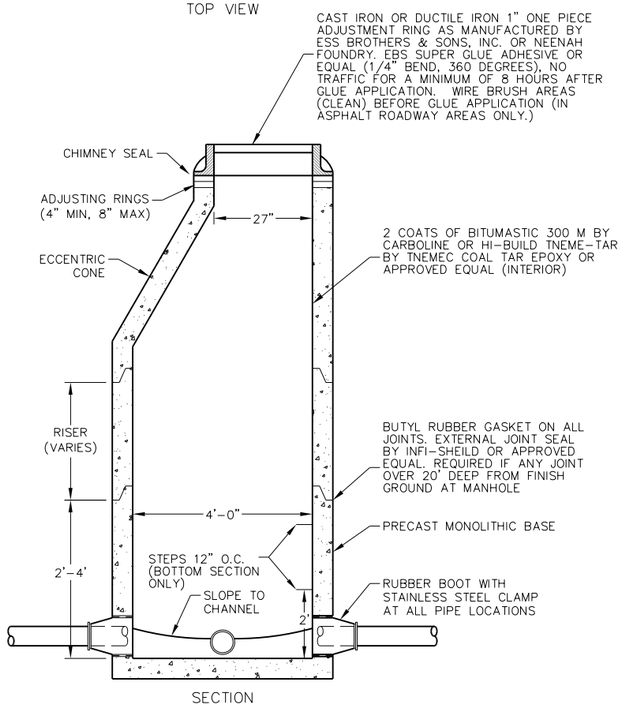
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	1



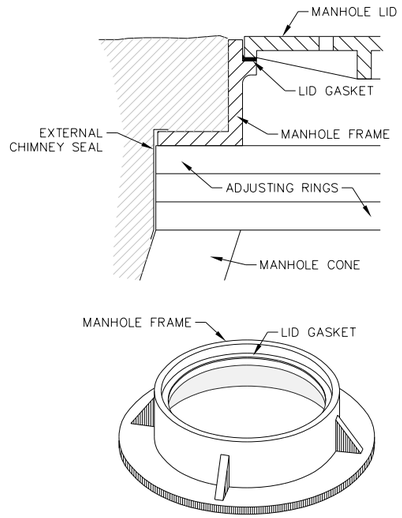
TOP VIEW



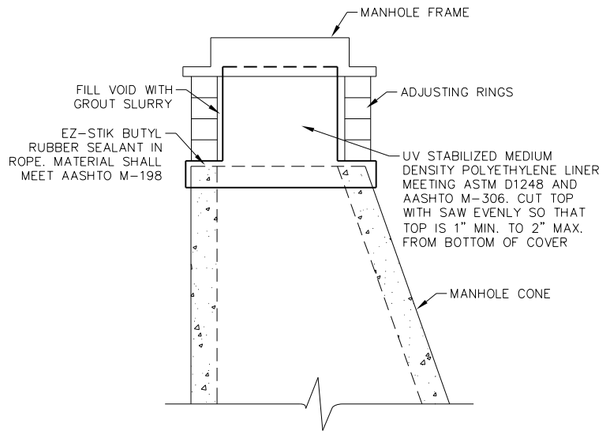
SECTION

SANITARY SEWER MANHOLE

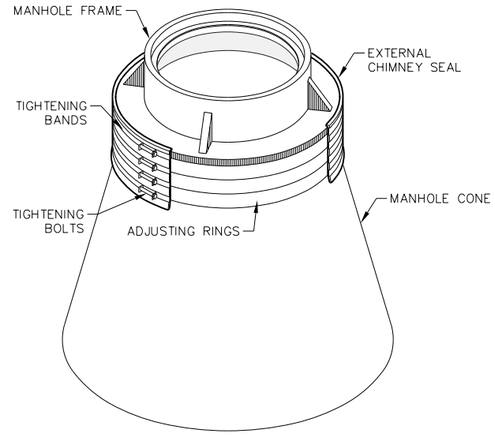
NO SCALE MUNI-330561-1 04.14.17



MANHOLE LID GASKET DETAIL



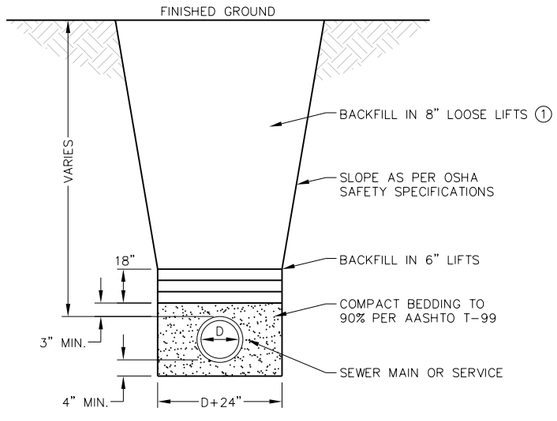
EXTERNAL MANHOLE SEAL (OPTION 2)



EXTERNAL MANHOLE SEAL (OPTION 1)

MANHOLE SEALS

NO SCALE WF-330513-2 04.22.15



(1) COMPACT TO 95% MINIMUM STANDARD PROCTOR DENSITY.

SANITARY SEWER MAIN OR SERVICE TRENCH

NO SCALE WF-312316.13-1 11.18.15

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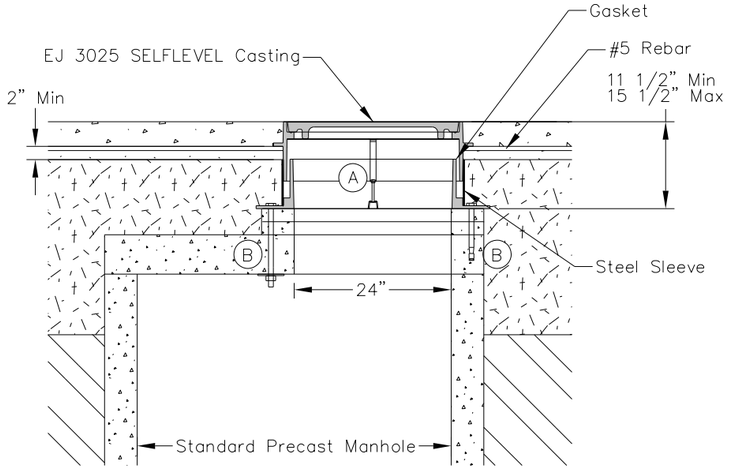
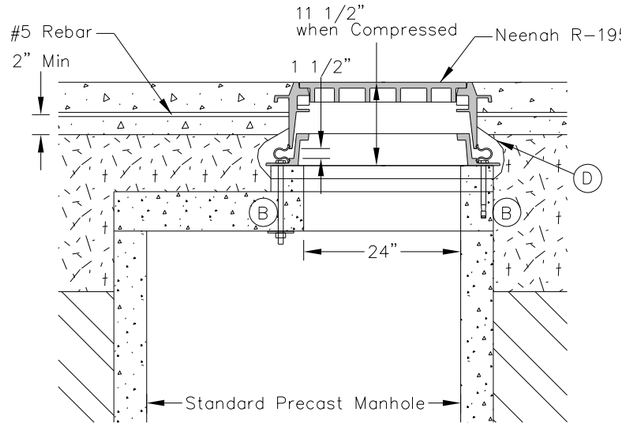
Sheyenne Street

General Details

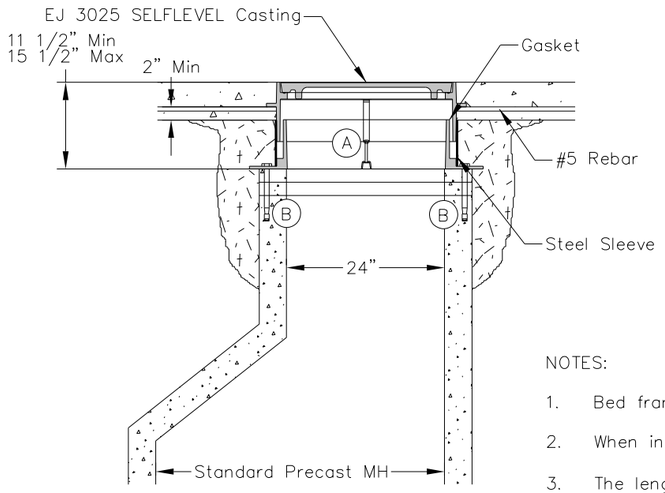
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	2



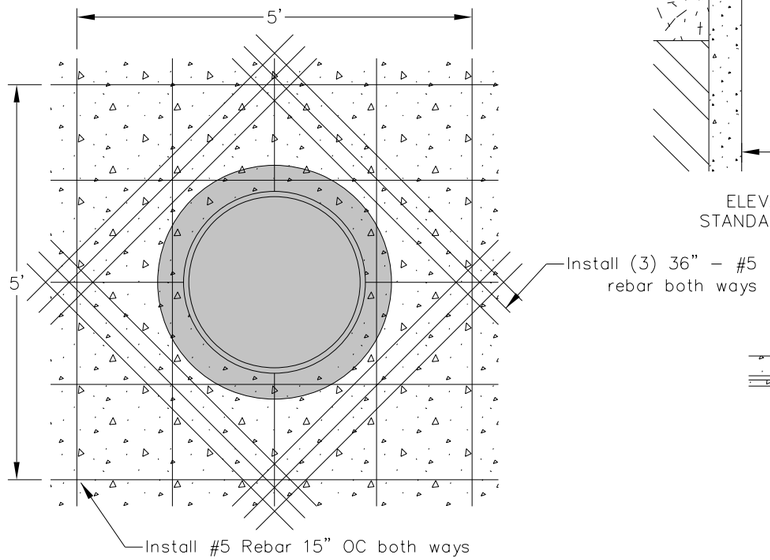
ELEVATION VIEW OF CONNECTION TO
STANDARD PRECAST MANHOLE – TYPICAL



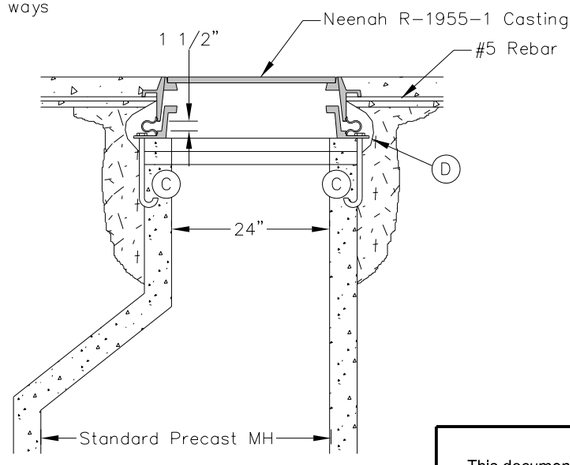
ELEVATION VIEW OF CONNECTION TO
STANDARD PRECAST MANHOLE – TYPICAL



ELEVATION VIEW OF CONNECTION TO
CONICAL MANHOLE – TYPICAL



REBAR LAYOUT



ELEVATION VIEW OF CONNECTION TO
CONICAL MANHOLE – TYPICAL

NOTES:

1. Bed frame in mortar, install precast two–inch rings, and plaster inside and out with mortar.
2. When installing an existing box out, drill 20" – #5 rebar into existing pavement 6" deep – 15" OC.
3. The length of anchor bolts varies with the number of adjusting rings.
4. Include installation costs at existing locations in the unit price bid for "MANHOLE CASTING."
5. Include installation costs at new manhole locations in the unit price bid for "MANHOLE ____ IN."

(A) (3) 6" full thread adjusting bolt and bracket (To be removed after concrete cures.)

(B) Provide 3#4" diameter stainless steel bolts, nut assemblies, and 1#2"x4"x4" plates to extend through the manhole cover, or provide anchor bolts to extend a minimum of 4" into the MH cover. Provide 4 bolts per casting.

(C) Provide 3#4" diameter stainless steel bolts with nuts to extend 5" below the adjusting rings. Provide 4 bolts per casting.

(D) Wrap and tape 6 mil polyethelene on casting above the rubber gasket and tape to adjusting rings below the gasket.

KEY:

Portland Cement Concrete Pavement

Granular Backfill

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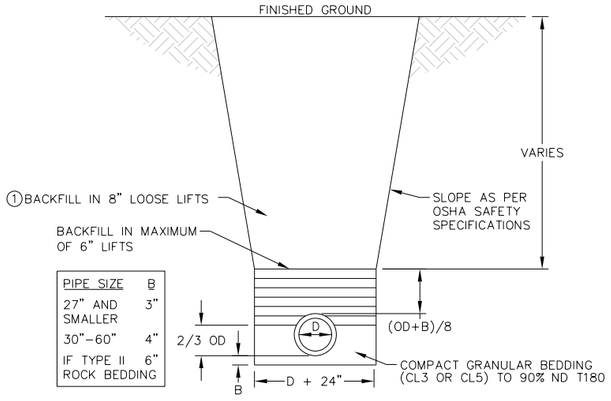
Sheyenne Street

Floating Manhole Details

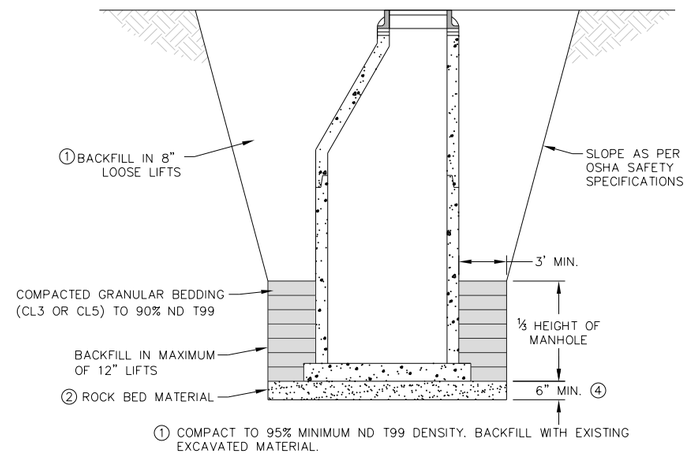
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	3



① COMPACT TO 95% MINIMUM ND T99 DENSITY. BACKFILL WITH EXISTING EXCAVATED MATERIAL.

RCP STORM SEWER TRENCH

NO SCALE



① COMPACT TO 95% MINIMUM ND T99 DENSITY. BACKFILL WITH EXISTING EXCAVATED MATERIAL.

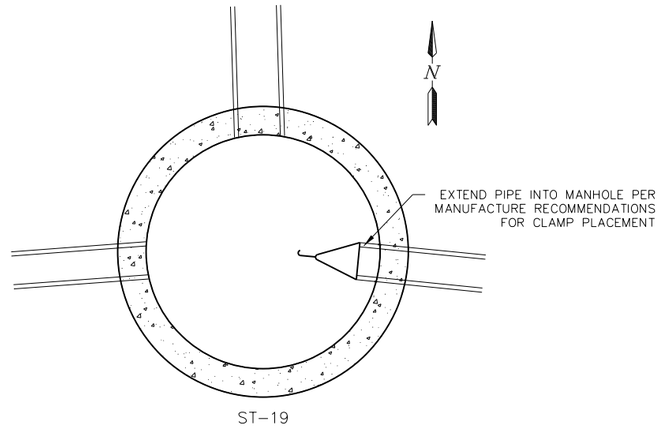
② ROCK BED MATERIAL SHALL BE 1–1/4" CRUSHED ROCK. ROCK FOR BEDDING AND COMPACTED GRANULAR MATERIAL ARE INCIDENTAL TO MANHOLE INSTALLATION.

③ DETAIL SHALL BE USED FOR ALL MANHOLES AND CATCH BASINS.

④ 12" MINIMUM FOR MAINTENANCE MANHOLES.

MANHOLE/CATCH BASIN TRENCH

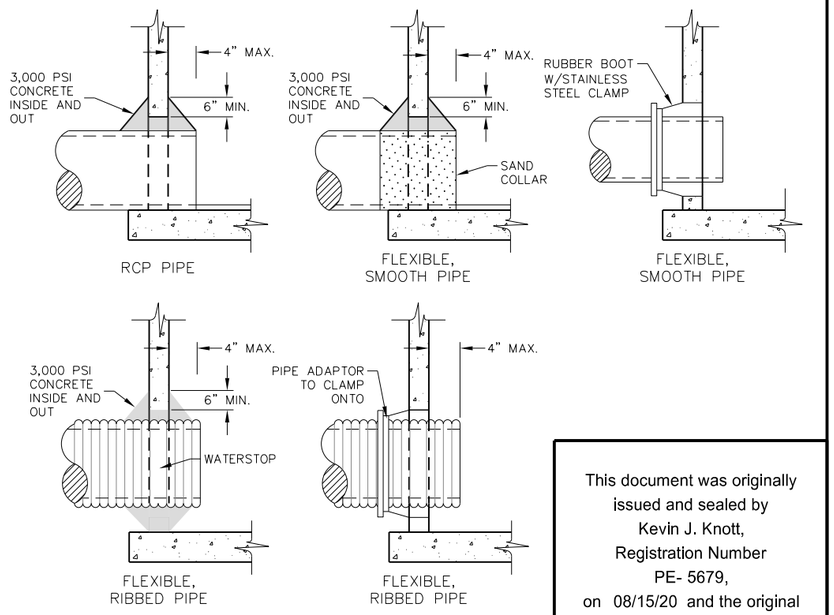
NO SCALE



ST–19

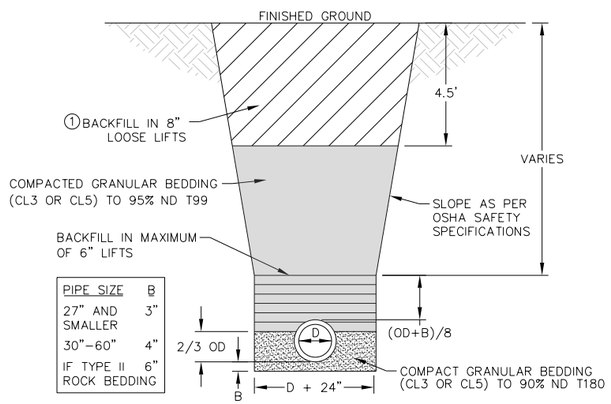
FLAP GATE 18IN

NO SCALE



STORM SEWER PIPE CONNECTION

NO SCALE

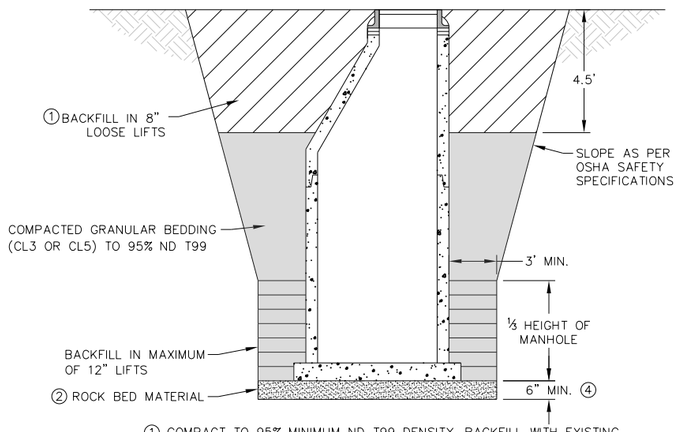


① COMPACT TO 95% MINIMUM ND T99 DENSITY. BACKFILL WITH EXISTING EXCAVATED MATERIAL.

RCP STORM SEWER TRENCH
MAINLINE - SHEYENNE ST

NO SCALE

ST-1 to ST-17



① COMPACT TO 95% MINIMUM ND T99 DENSITY. BACKFILL WITH EXISTING EXCAVATED MATERIAL.

② ROCK BED MATERIAL SHALL BE 1–1/4" CRUSHED ROCK. ROCK FOR BEDDING AND COMPACTED GRANULAR MATERIAL ARE INCIDENTAL TO MANHOLE INSTALLATION.

③ DETAIL SHALL BE USED FOR ALL MANHOLES AND CATCH BASINS.

④ 12" MINIMUM FOR MAINTENANCE MANHOLES.

MANHOLE/CATCH BASIN TRENCH
MAINLINE - SHEYENNE ST

NO SCALE

ST-1 to ST-17

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Sheyenne Street

Storm Details

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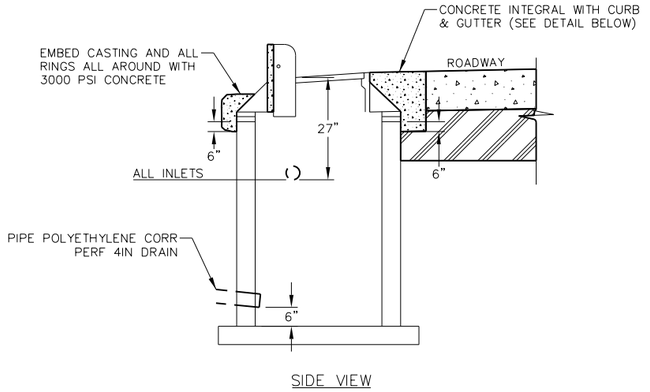
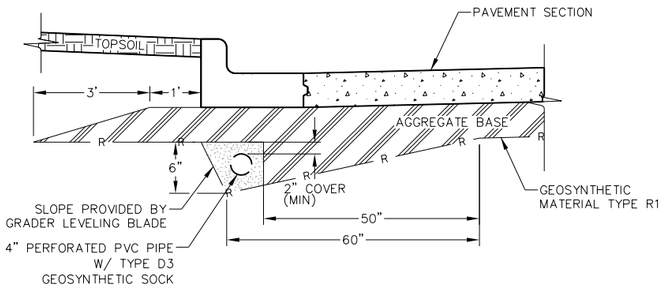
	ND	UGP-8-992(041)	20	4

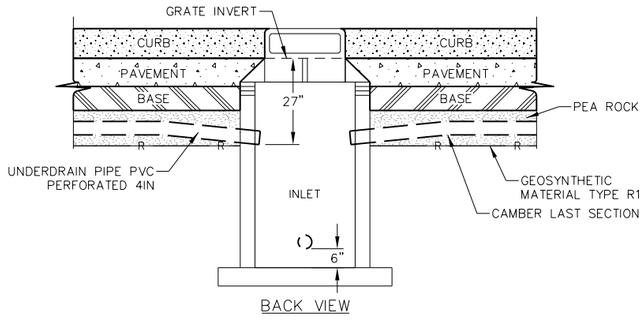


SIDE VIEW



EDGEDRAIN DETAIL

NO SCALE



BACK VIEW

MANHOLE/INLET CONNECTION

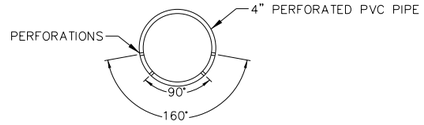
NO SCALE

NOTE:

1. LIST BELOW INDICATES INLET LOCATIONS WITH POLYETHYLENE CORR PERF 4IN DRAIN BOOT CONNECTION.

   SEE SECTION 85 FOR POLYETHYLENE CORR PERF 4IN LOCATION.

ST-3D	ST-4A
ST-4B	ST-7A
ST-8A	ST-9A
ST-10A	ST-12-1A
ST-14A	ST-16A
ST-16B	ST-18B
ST-20B	ST-21A
ST-21B	ST-23A
ST-23B	ST-26A
ST-26B	ST-27A
ST-28A	ST-28B
ST-31A	ST-33C



PERFORATED PVC PIPE DETAIL

NO SCALE

NOTES:

1. PROVIDE KNOCKOUTS IN INLETS TO ACCOMMODATE 4" PVC PERFORATED PIPE. INCLUDE COST OF KNOCKOUTS AND RUBBER BOOT CONNECTION IN THE PRICE BID FOR PERFORATED PVC PIPE.
2. DO NOT USE BENDS OR FITTINGS UNLESS APPROVED BY THE ENGINEER. IF USED, USE SOLVENT WELD FITTINGS.
3. USE POLYVINYL CHLORIDE SEWER PIPE WITH SOLVENT CEMENTED JOINTS AS SPECIFIED IN ASTM SPEC. NO. 3034.
4. PERFORATIONS TO BE CIRCULAR AND 1/4" ± 1/16" IN DIAMETER. ARRANGE IN ROWS PARALLEL TO THE AXIS OF THE PIPE AND SPACED APPROXIMATELY 3" CENTER TO CENTER ALONG THE ROWS. THE PLACEMENT AND TOTAL NUMBERS OF THE ROWS TO BE AS SHOWN ABOVE WITH AN ALLOWABLE TOLERANCE OF ±10 DEGREES. THE SPIGOT AND BELL END TO BE UNPERFORATED FOR A LENGTH EQUAL TO THE DEPTH OF THE JOINT.
5. PIPE SIZE: 4"
6. ROWS OF PERFORATIONS: 4
7. PERFORATIONS PER ROW: 48 (FOR 12.5' PIPE LAYING LENGTHS)
8. WASH PEA GRAVEL CLEAN PRIOR TO USE. INCLUDE COST FOR PEA GRAVEL MANUFACTURE, DELIVERY, AND PLACEMENT IN THE PRICE BID FOR "EDGEDRAIN NON PERMEABLE BASE". THE ROCK TO BE BETWEEN 3/8" AND 3/4" ROCK (COURSE AGGREGATE).
9. TERMINATE 4" PERFORATED PIPE INSIDE OF INLETS OR MANHOLES AT LEAST 1" WITH A MAXIMUM OF 3".
10. PLACE PERFORATIONS FACING DOWN.

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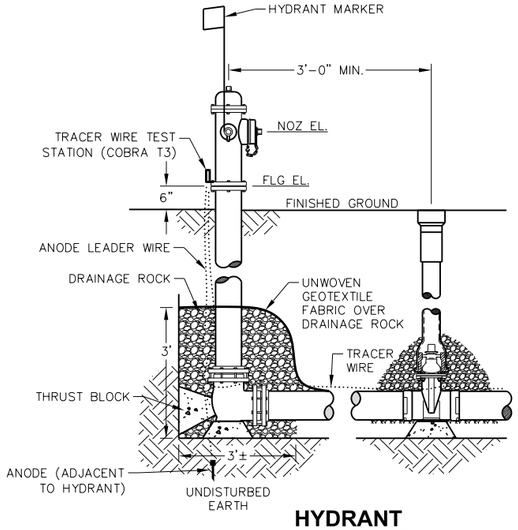
Sheyenne Street

Edgedrain & Underdrain Details

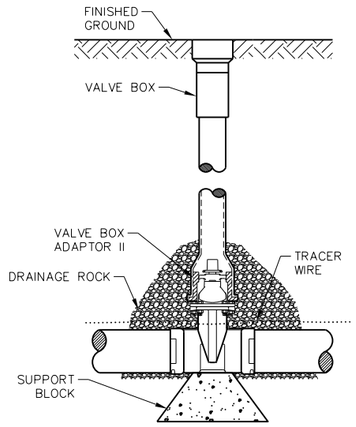
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	5



HYDRANT

NO SCALE WF 03.01.18

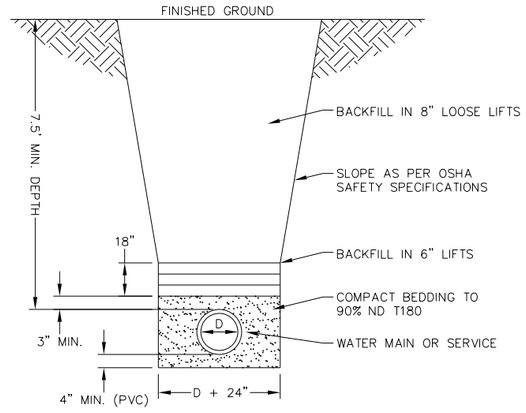
NOTES:
1. DO NOT BLOCK WEEP HOLE ON HYDRANT.
2. DO NOT COVER ANY JOINT WITH CONCRETE.
3. ALL UNDERGROUND METAL ITEMS TO BE WRAPPED WITH 8" MIL POLYETHYLENE PLASTIC.
4. NOZZLE HEIGHT SHALL BE MINIMUM 24" FROM FINISHED GROUND OR AS SHOWN ON PLANS.
5. DRAINAGE ROCK SHALL BE 2" MINUS WASHED ROCK. ROCK IS INCLUDED IN PRICE BID FOR HYDRANT.



VALVE AND BOX

NO SCALE WF 03.01.18

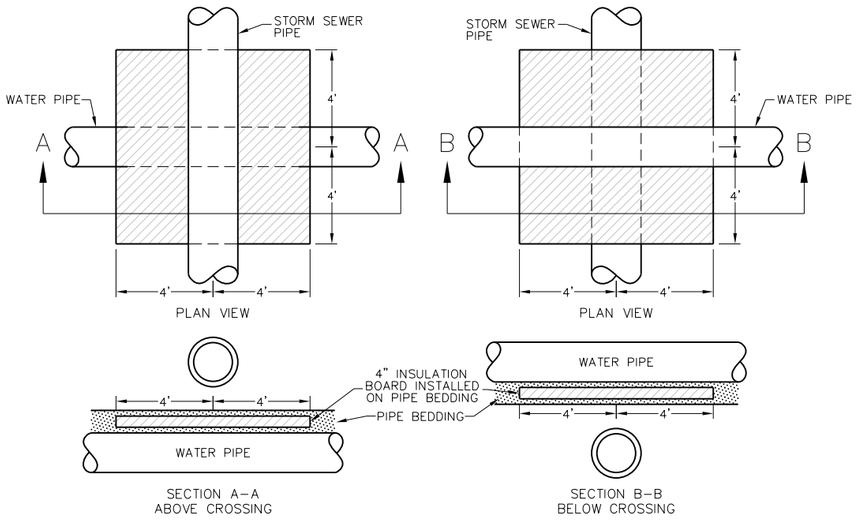
NOTES:
1. WRAP ALL UNDERGROUND METAL ITEMS WITH 8 MIL POLYETHYLENE PLASTIC.
2. TOP OF VALVE BOX SHALL BE SET TO PROVIDE 12" OF UPWARD ADJUSTMENT.



① COMPACT TO 95% MINIMUM ND T99 DENSITY.

WATER MAIN OR SERVICE TRENCH

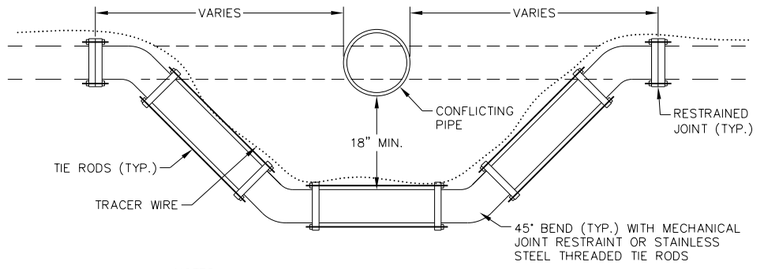
NO SCALE



NOTES:
1. THIS DETAIL APPLIES TO BOTH MAINS & SERVICES WHERE CROSSING IS WITHIN 24".
2. WATER SERVICES MAY BE INSULATED WITH AN APPROVED ENCASEMENT INSULATION IN LIEU OF DETAIL.

WATER INSULATION FOR STORM CROSSING

NO SCALE WF-331113-4 02.18.15



NOTES:
1. ALL LOWERING AREA SHALL BE COVERED WITH 8 MIL POLYETHYLENE PLASTIC.
2. THRUST BLOCKS NEED TO BE INSTALLED AT ELBOWS.
3. INSULATE IF CLOSER THAN 24" TO CONFLICTING STORM PIPE OR CLOSER THAN 7.5' FROM FINISHED GROUND.
4. ADJUST AS SHOWN ON PLANS, OTHERWISE WATER MAIN MAY BE BELOW OR ABOVE CONFLICTING PIPE.
5. CATHODIC PROTECTIONS-SACRIFICIAL ANODE ZINC CAPS.

WATER MAIN RELOCATE

NO SCALE WF 03.01.18

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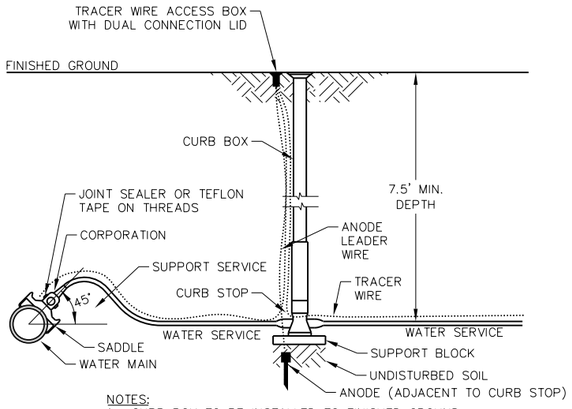
Sheyenne Street

Water Details

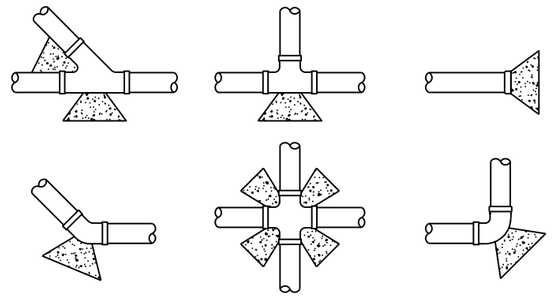
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	6



NOTES:
1. CURB BOX TO BE INSTALLED TO FINISHED GROUND ELEVATION AS SPECIFIED ON PLANS, HALFWAY EXTENDED.
2. ENTIRE SERVICE LINE TO BE PRESSURE TESTED.
3. SEE SERVICE LAYOUT DETAIL OR PLAN SHEETS FOR LOCATION OF CURB STOP AND END OF SERVICE.
4. PROVIDE STIFFENERS ON ALL CONNECTIONS WITH POLYETHYLENE PIPE.

WATER SERVICE LINE

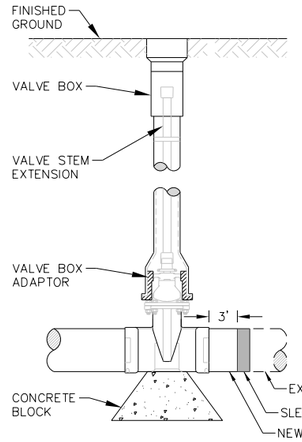
NO SCALE WF 03.01.18



MINIMUM THRUST BLOCK SIZES										
	REQUIRED BEARING AREA (S.F.)									
PIPE DIAMETER	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
CROSS, DEAD END OR TEE	2	4	7	11	16	21	28	36	44	63
90 BEND	3	6	10	16	22	30	39	50	62	88
45 BEND	2	3	6	9	12	17	21	27	34	48
22 1/2 BEND	1	2	3	5	7	9	14	17	17	25
NOTE: ALL THRUST BLOCKS A MINIMUM OF 12" THICK AND MUST BEAR AGAINST UNDISTURBED SOIL.										

THRUST BLOCKS

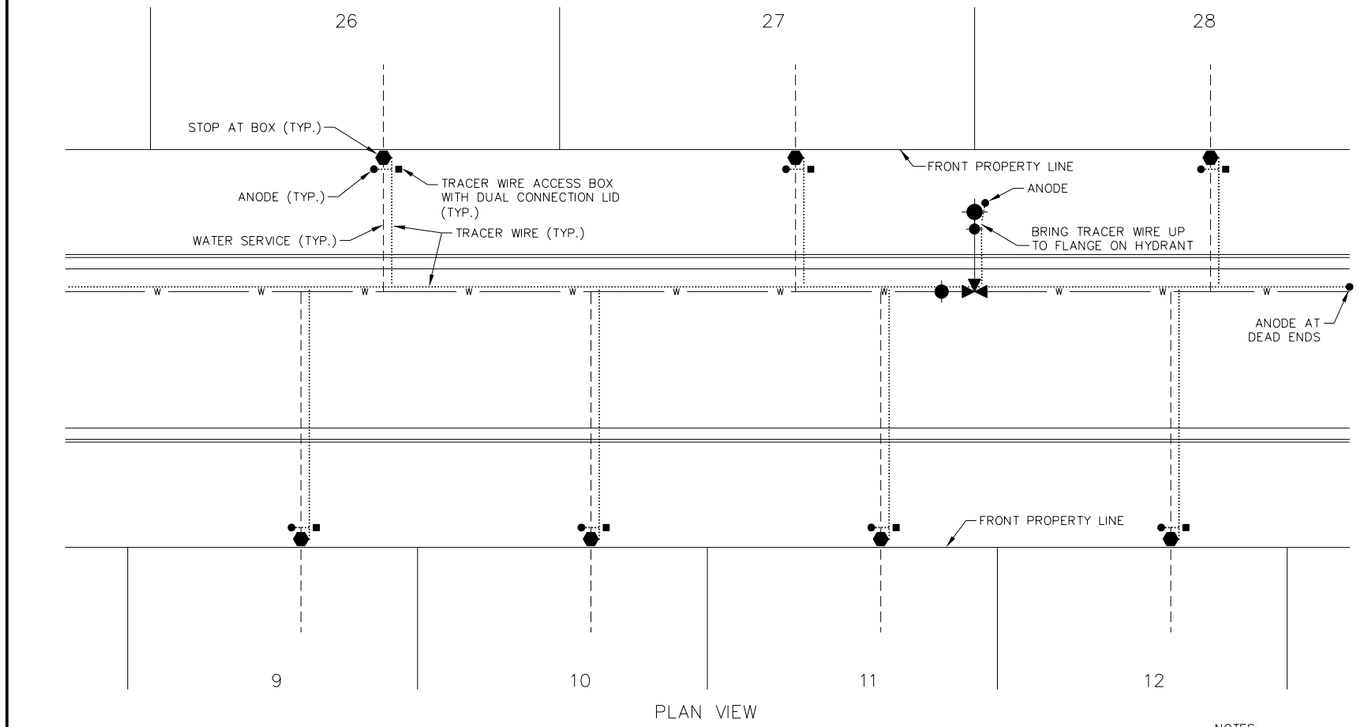
NO SCALE WF-331113-1 02.18.15



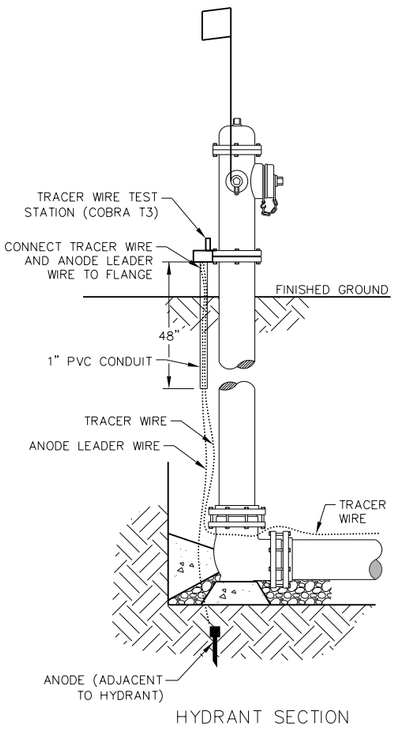
NOTES:
1. WRAP ALL UNDERGROUND METAL ITEMS WITH 8 MIL POLYETHYLENE PLASTIC.
2. BACKFILL VALVE AND BOX WITH GRANULAR MATERIAL TO TOP COMPACTED TO 95% DENSITY.
3. TOP OF VALVE BOX SHALL BE SET TO PROVIDE 12" OF UPWARD ADJUSTMENT.
4. VALVE STEM EXTENSION SHALL BE MADE UP OF TOP WRENCH 2" SQUARE NUT, DEBRIS SHIELD, 1" DIAMETER EXTENSION ROD (OR PIPE) AND A BOTTOM WRENCH NUT COUPLING. THE TOP NUT SHALL BE INSTALLED A MINIMUM OF 6" BELOW FINISHED GRADE. THE DEBRIS SHALL BE MINIMUM 1/4" THICK WITH TWO 1/2" DIAMETER DRAIN HOLES, HAVE A MAXIMUM 4 1/2" DIAMETER FOR A 5 1/4" VALVE BOX, BE LOCATED 1" BELOW TOP WRENCH NUT AND WELDED TO THE EXTENSION ROD (OR PIPE).

CONNECT TO EXISTING ACP

NO SCALE



PLAN VIEW



HYDRANT SECTION

WATER MAIN TRACE WIRE

NO SCALE WF 03.01.18

NOTES:
1. TRACER WIRE SHALL BE INSTALLED AT SOUTH AND EAST SIDES OF PIPELINE BEING TRACED.
2. ACCESS BOX WITH DUAL CONNECTION LID AND ANODE SHALL BE INSTALLED AT PLUGGED ENDS.

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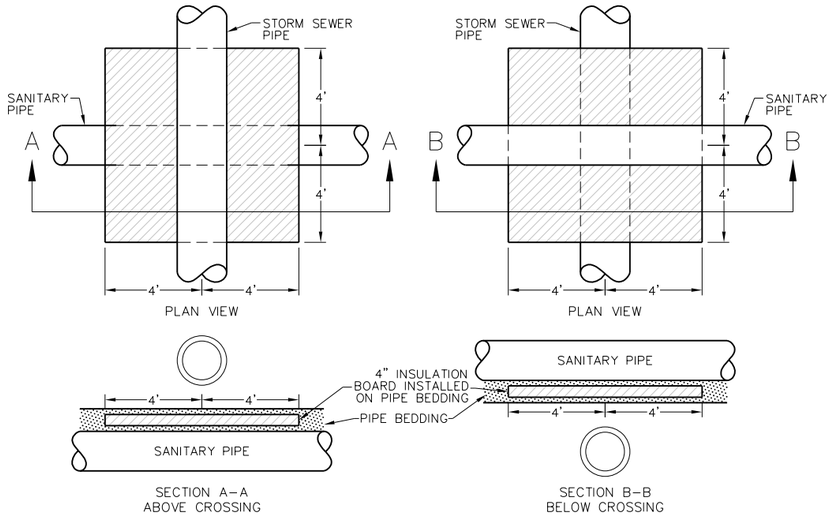
Sheyenne Street

Water Details

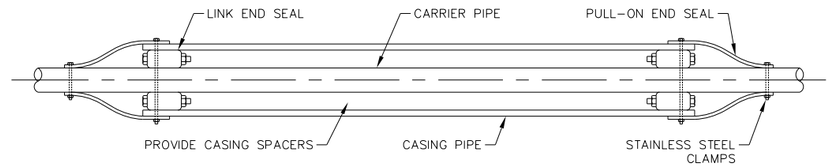
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	7



SANITARY INSULATION FOR STORM CROSSING

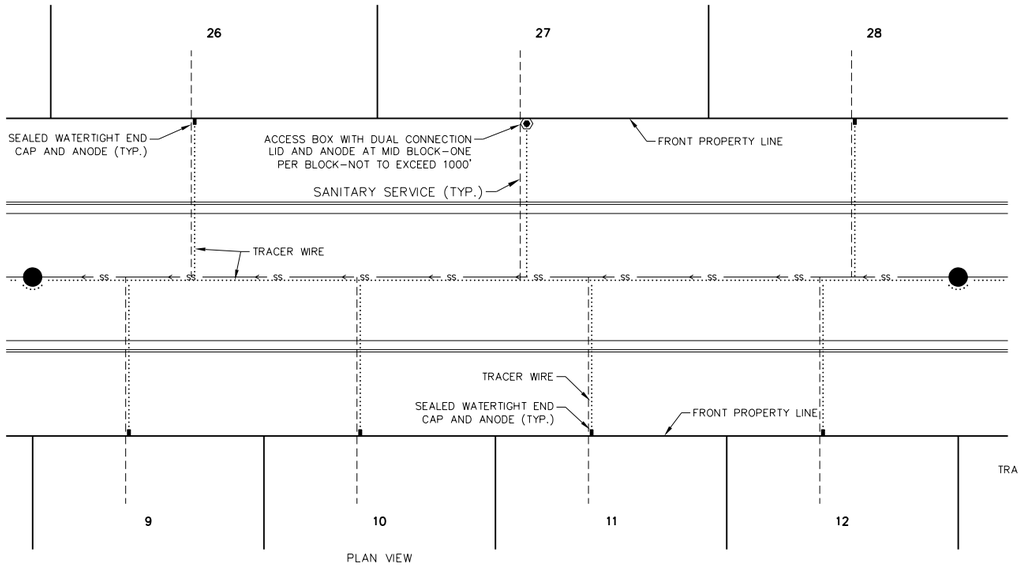
NO SCALE WF-333100-6 02.18.15

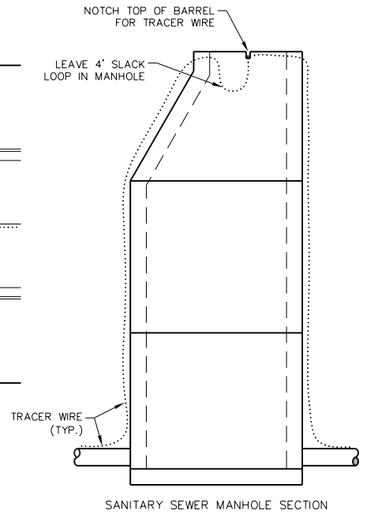
NOTES:
1. THIS DETAIL APPLIES TO BOTH MAINS & SERVICES WHERE CROSSING IS WITHIN 24".
2. SERVICES MAY BE INSULATED WITH AN APPROVED ENCASEMENT INSULATION IN LIEU OF DETAIL.



CARRIER PIPE - CASING PIPE INSTALLATION

NO SCALE





SANITARY SEWER TRACER WIRE

NO SCALE WF-330526.23-1 05.02.17

NOTES:
1. TRACER WIRE SHALL BE INSTALLED AT SOUTH AND EAST SIDES OF PIPELINE BEING TRACED.
2. ACCESS BOX WITH DUAL CONNECTION LID AND ANODE SHALL BE INSTALLED AT MAINLINE POINTS OF TERMINATION WHERE NO ADJACENT TRACER WIRE EXISTS.

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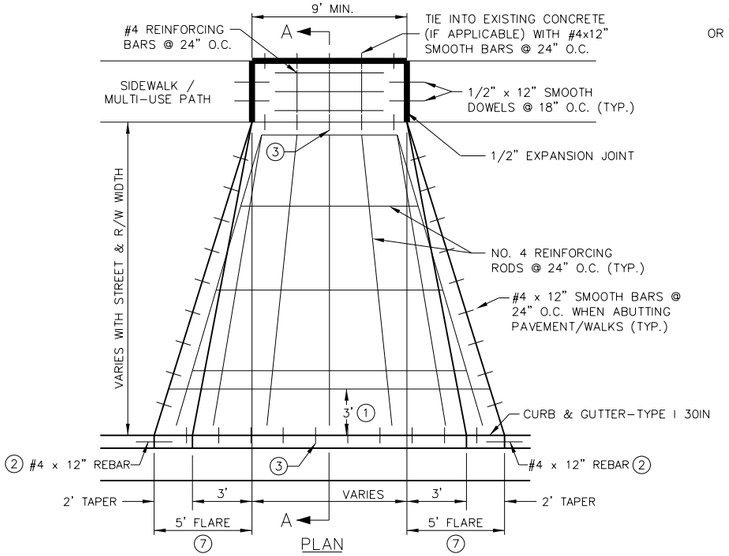
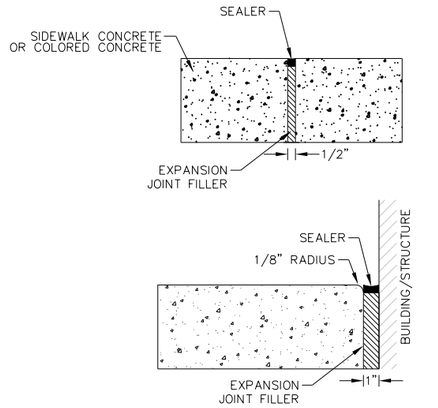
Sheyenne Street

Sanitary Details

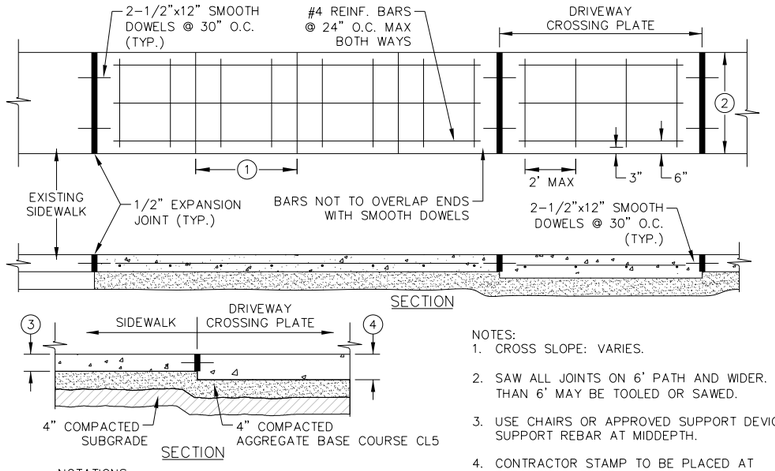
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	8





NOTE:
1. FILLER SHALL BE TYPE III PER ASTM D1752.

EXPANSION JOINT
NO SCALE

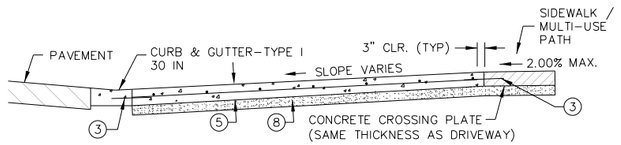


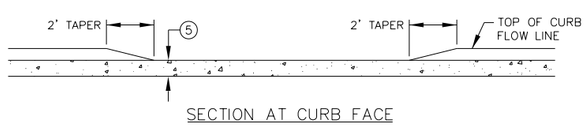
NOTATIONS:

1. JOINTS TO BE SPACED AT 4' FOR SIDEWALK CONCRETE 4IN
   JOINT PATTERN INDICATED IN SECTION 85 FOR SIDEWALK CONCRETE 5IN
2. 4'-0" FOR TYPICAL SIDEWALK.
   VARIES FOR SIDEWALK CONCRETE 5IN
3. 4" THICK FOR SIDEWALK CONCRETE 4 IN.
   5" THICK FOR SIDEWALK CONCRETE 5IN
4. SAME AS DRIVEWAY.
   - MIN. 6" FOR RESIDENTIAL.
   - MIN. 7" FOR COMMERCIAL/INDUSTRIAL.

NOTES:
1. CROSS SLOPE: VARIES.
2. SAW ALL JOINTS ON 6' PATH AND WIDER. LESS THAN 6' MAY BE TOOLED OR SAWED.
3. USE CHAIRS OR APPROVED SUPPORT DEVICES TO SUPPORT REBAR AT MIDDEPTH.
4. CONTRACTOR STAMP TO BE PLACED AT EXPANSION JOINTS.
5. PLACE EXPANSION JOINTS AT PROPERTY LINES WHERE POSSIBLE.
6. PIGMENTED IMPRINTED CONCRETE SECTIONS NARROWER THAN 2.5' TO FOLLOW JOINTING DETAILS ABOVE BUT REBAR TO BE SPACED 18" O.C.

SIDEWALK CONCRETE
NO SCALE

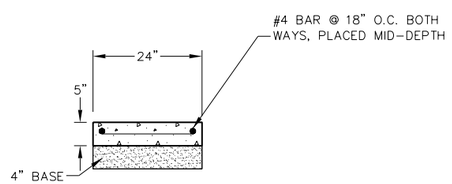




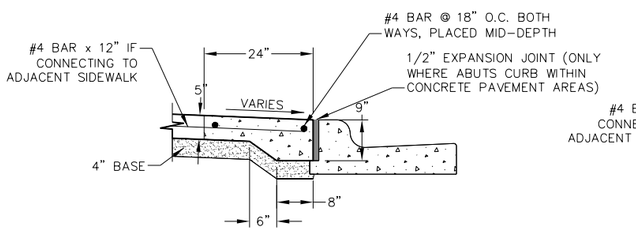
NOTES:

1. SAW CUT, REMOVE AND REPLACE WHEN CURB & GUTTER IS BEING INSTALLED WITH EXISTING DRIVEWAY.
2. WHEN DRIVEWAY IS BEING INSTALLED WITH EXISTING CURB AND GUTTER, THE CURB AND GUTTER IS REMOVED AND REPLACED. NO INTEGRAL DRIVEWAY/CURB & GUTTER POURS ALLOWED.
3. TIE THE DRIVEWAY AND REINFORCEMENT MAT TO THE CURB AND GUTTER WITH #4 REBAR 12" LONG 24" ON CENTER.
4. USE CHAIRS OR APPROVED SUPPORT DEVICES TO SUPPORT REINFORCEMENT BARS AT MID DEPTH.
5. 6" MINIMUM FOR RESIDENTIAL; 7" MINIMUM FOR COMMERCIAL; OR AS NOTED ON PLANS.
6. DO NOT TIE SMOOTH DOWELS TO REINFORCING MATS.
7. 60" TAPER WHEN SIDES OF DRIVEWAY ABUT PAVEMENTS/WALKS.
8. 4" COMPACTED AGGREGATE BASE COURSE CL 5.

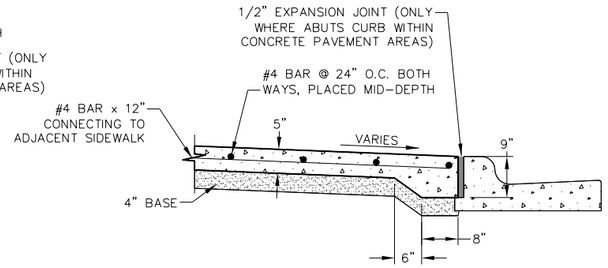
DRIVEWAY - WITH CURB & GUTTER AND CROSSING PLATE
NO SCALE WF-321313-16 10.17.16



2' Wide Section without Curb



2' Wide Section with Curb



NOTES:
1. SAW PER SIDEWALK DETAILS AND MATCH CURB & GUTTER JOINTS.
2. CURE WITHIN 24 HOURS. SEAL AFTER 14 DAYS WITH A MAXIMUM OF 30 DAYS.

PIGMENTED IMPRINTED CONCRETE
NO SCALE

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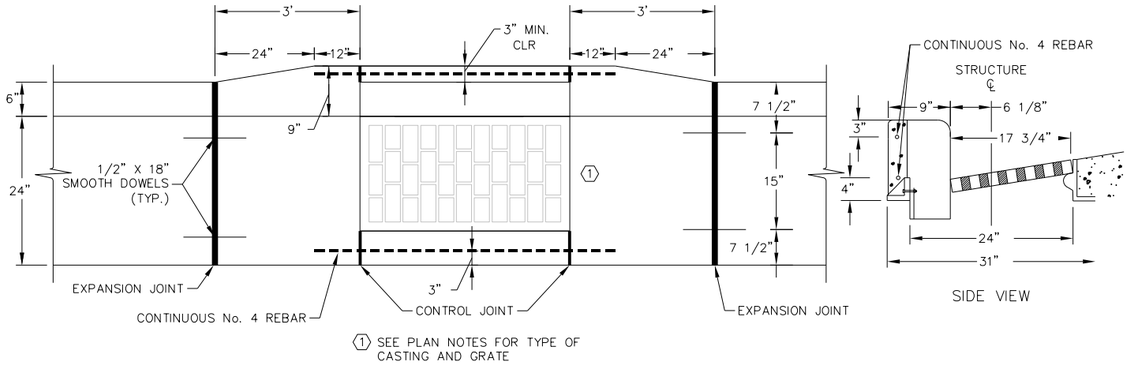
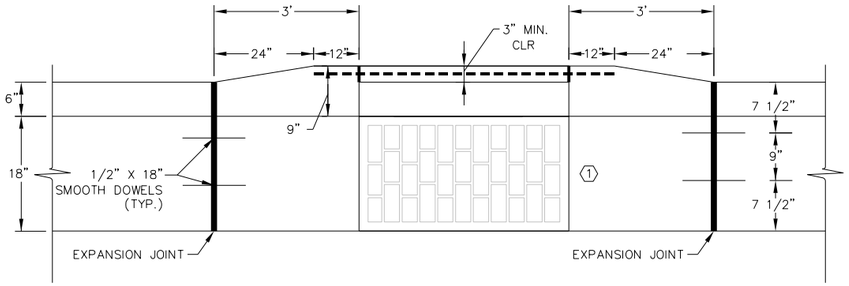
Sheyenne Street

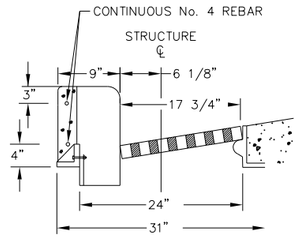
Roadway Details

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	9

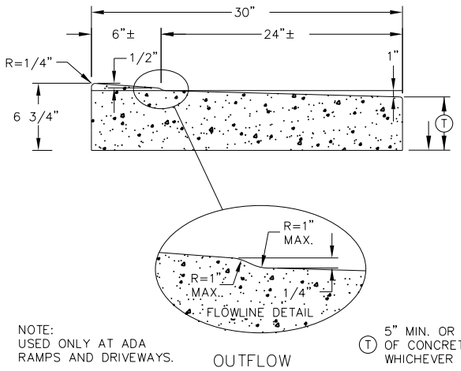


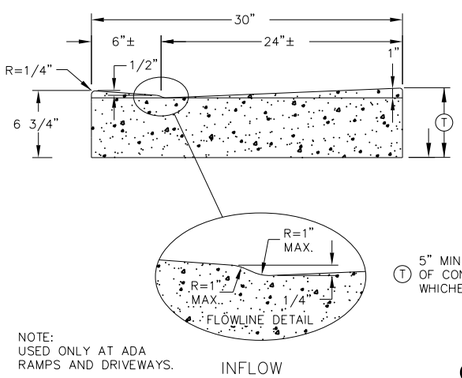
CURB & GUTTER - TYPE I 30IN
NO SCALE

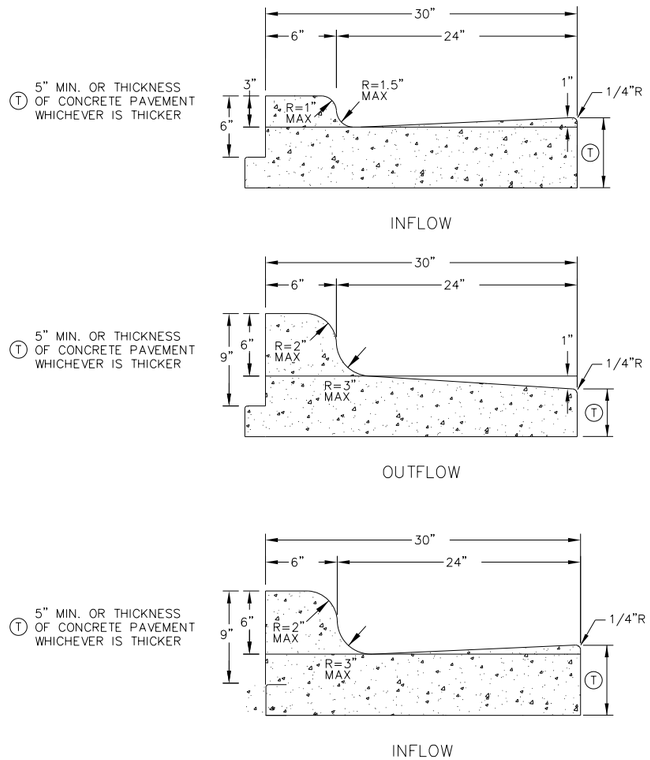




CURB & GUTTER - TYPE I
NO SCALE

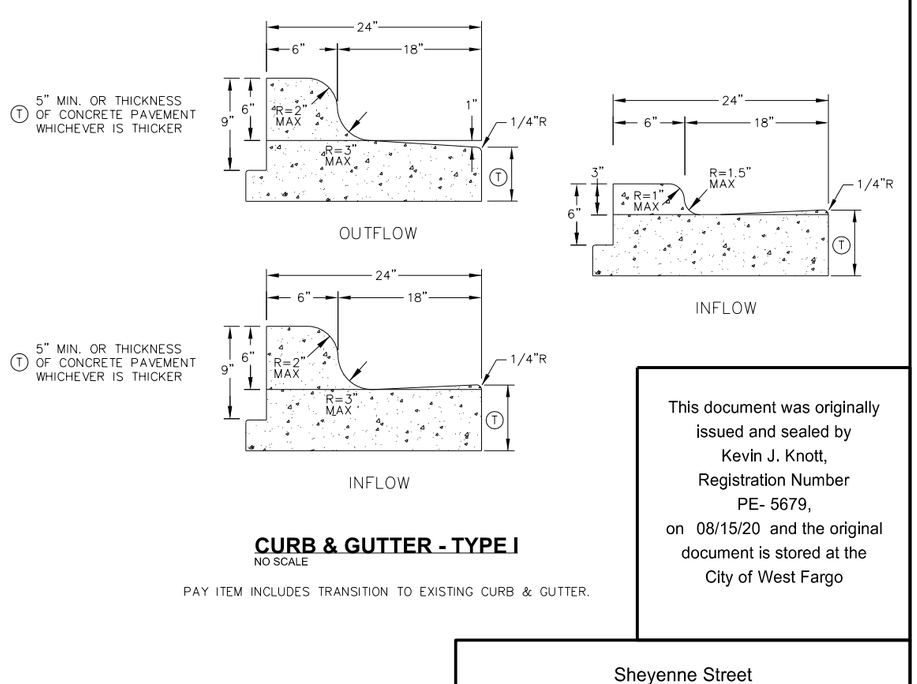






CURB & GUTTER - TYPE I 30IN
NO SCALE

PAY ITEM INCLUDES TRANSITION TO EXISTING CURB & GUTTER.



CURB & GUTTER - TYPE I
NO SCALE

PAY ITEM INCLUDES TRANSITION TO EXISTING CURB & GUTTER.

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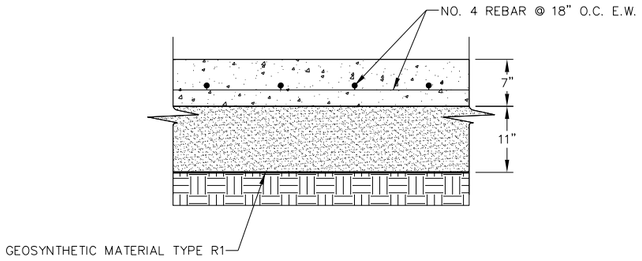
Sheyenne Street

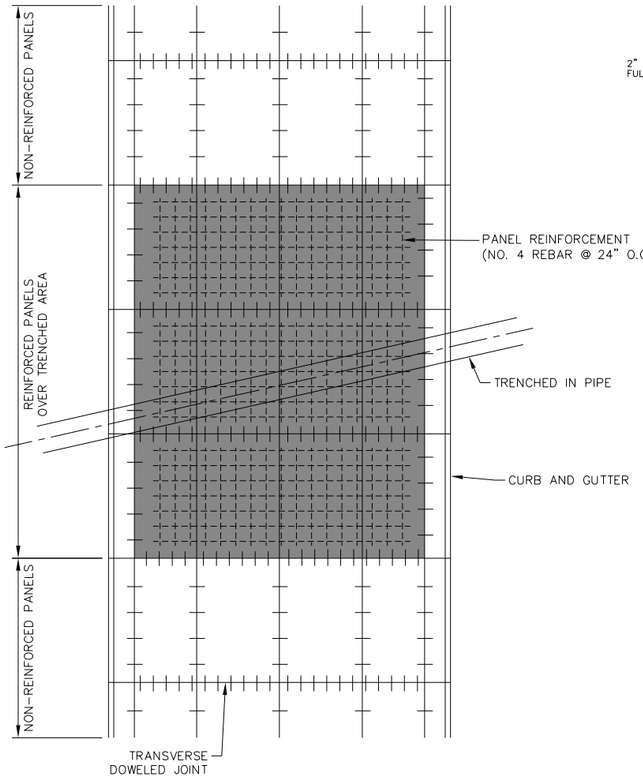
Roadway Details

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	10



7IN REINF CONCRETE PAVEMENT CL AE

NO SCALE

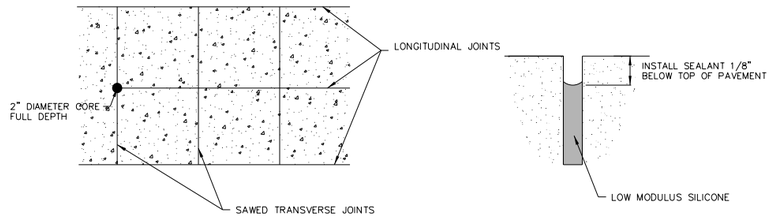


NOTES:

1. PAYMENT FOR REINFORCEMENT SHALL BE INCIDENTAL TO THE PRICE OF THE 9 IN REINF CONCRETE PVMT CL AE.
2. THE COMPLETE PANEL SHALL BE REINFORCED IF ANY PART OF THE PANEL IS WITHIN 5' OF THE STORM SEWER INLET LEAD PIPE CENTERLINE AND ANY PANEL THAT TOUCH A MANHOLE CASTING.
3. REBAR MAT SHALL BE SUPPORTED BY CHAIRS AT THE MID-DEPTH POINT OF THE SLAB.
4. REBAR SHALL STOP WITHIN 1' OF THE DOWELED CONTRACTION JOINT AT THE ADJACENT NON-REINFORCED PANEL.
5. MAXIMUM JOINT SPACING SHOULD BE 15 FEET.

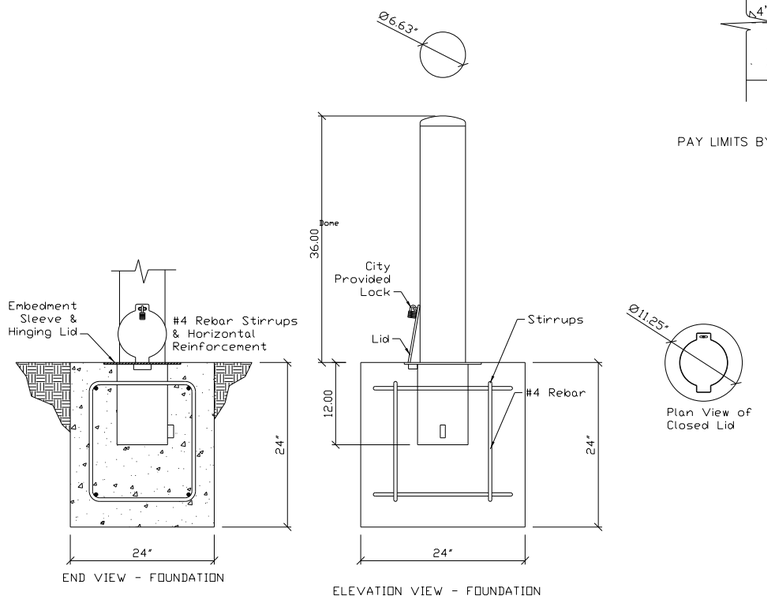
TRENCH REINFORCEMENT

NO SCALE



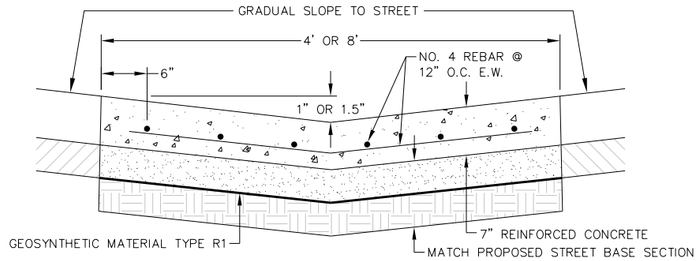
2" CORE DETAIL

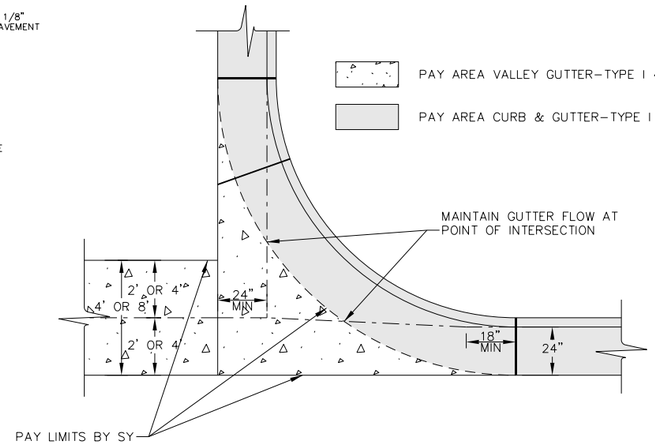
NO SCALE



GUARD POST-REMOVABLE

NO SCALE





CONCRETE VALLEY GUTTER

NO SCALE

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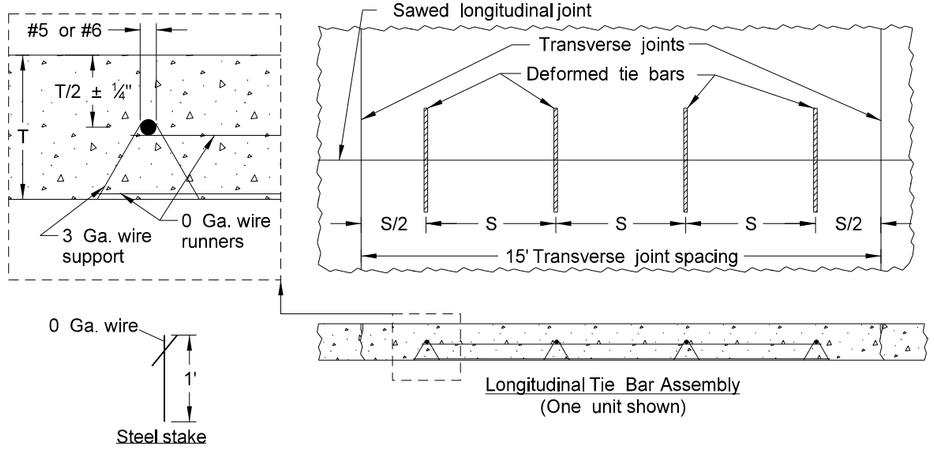
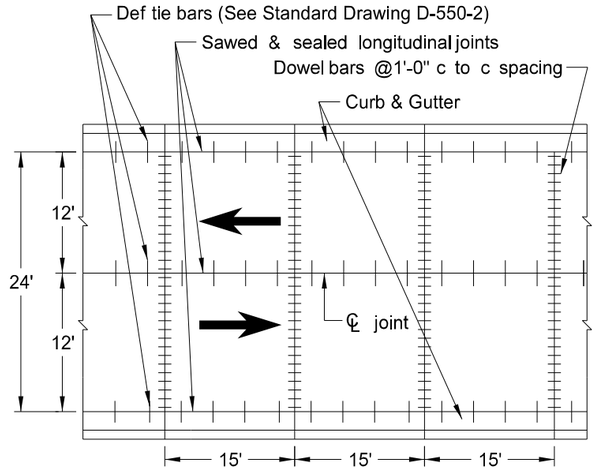
Sheyenne Street

Roadway Details

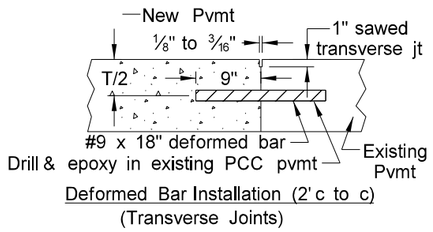
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	11



Longitudinal Tie Bar Assembly
(One unit shown)



Mainline Joints
15' joint spacing



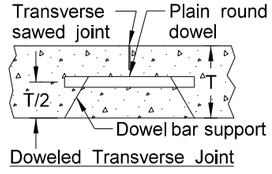
Deformed Bar Installation (2' c to c)
(Transverse Joints)

	Grade 40 Longitudinal Joint Tie Bars
PCC Depth	9"
Mainline Centerline	
Bar Size x Length (S=30")	#5 x 30"
Bar Size x Length (S=45")	#6 x 36"

	Grade 60 Longitudinal Joint Tie Bars
PCC Depth	9"
Mainline Centerline	
Bar Size x Length (S=30")	#4 x 36"
Bar Size x Length (S=45")	#5 x 42"

Transverse Joint Dowel Bars

Joint Location	Dia x Length
ML	d1 ¼" x 18"



Doweled Transverse Joint

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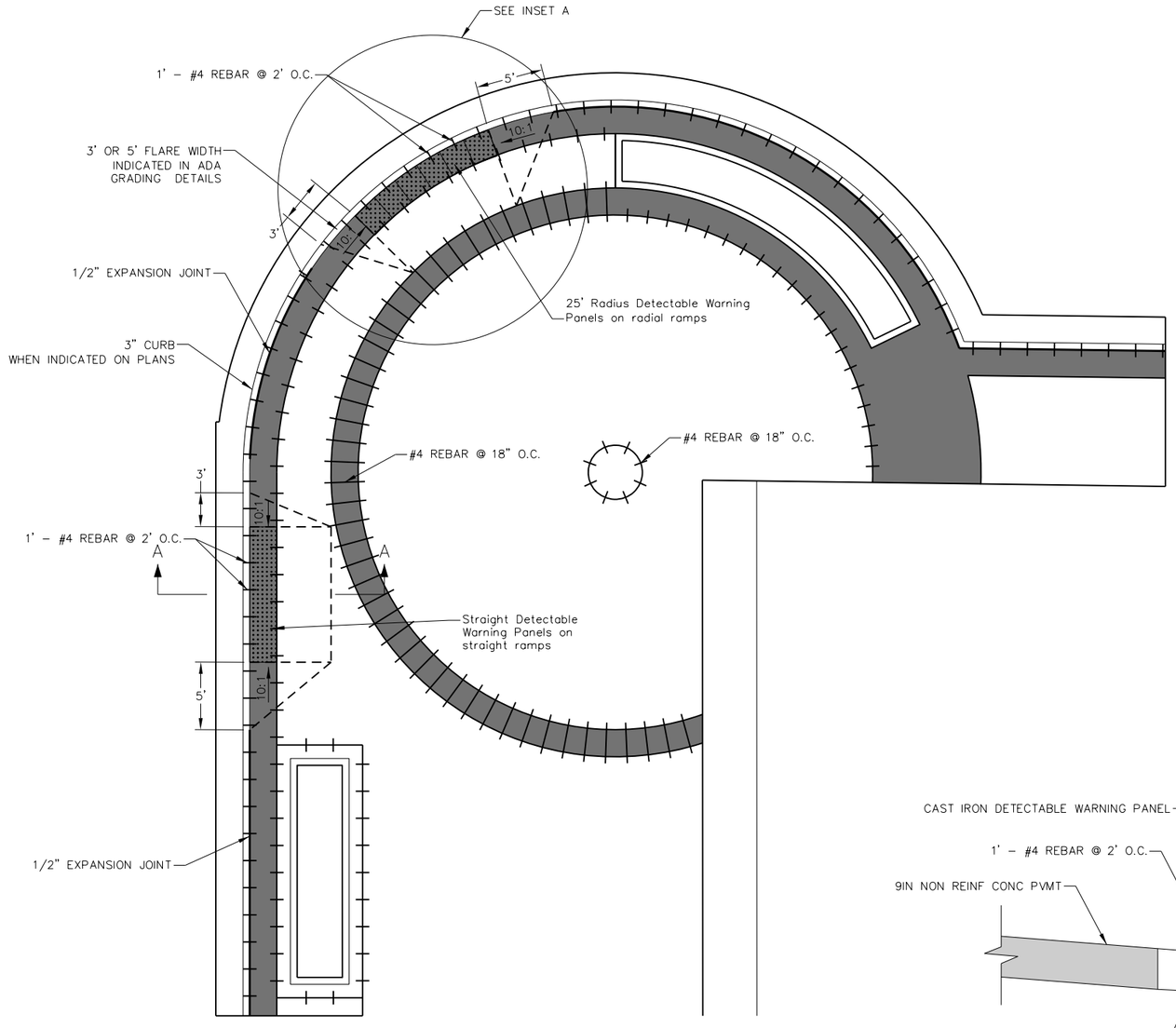
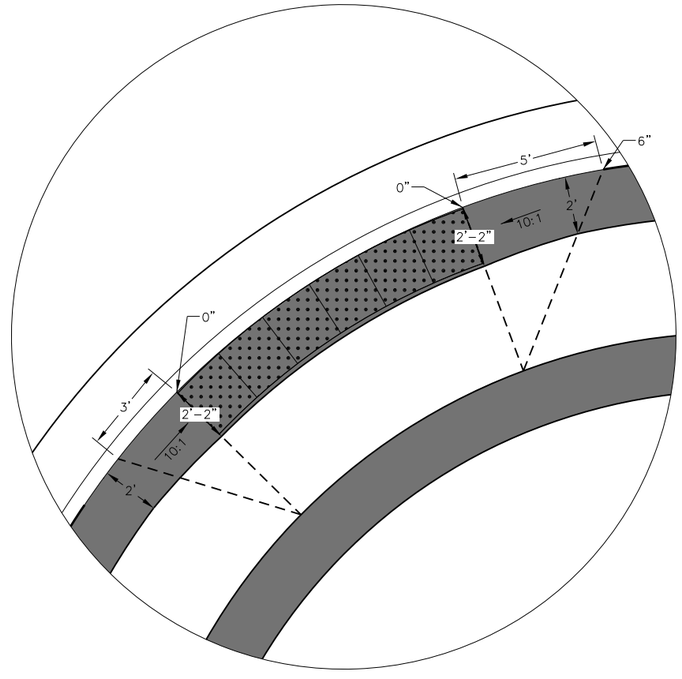
Sheyenne Street

PCC Pavement Joint Details

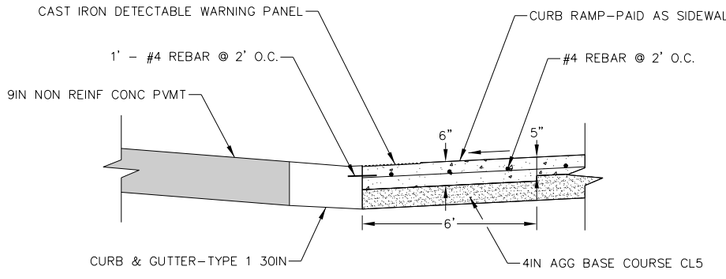
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	12



ADA RAMP & SIDEWALK REINFORCING DETAIL
NO SCALE



INSET A



SECTION A – A

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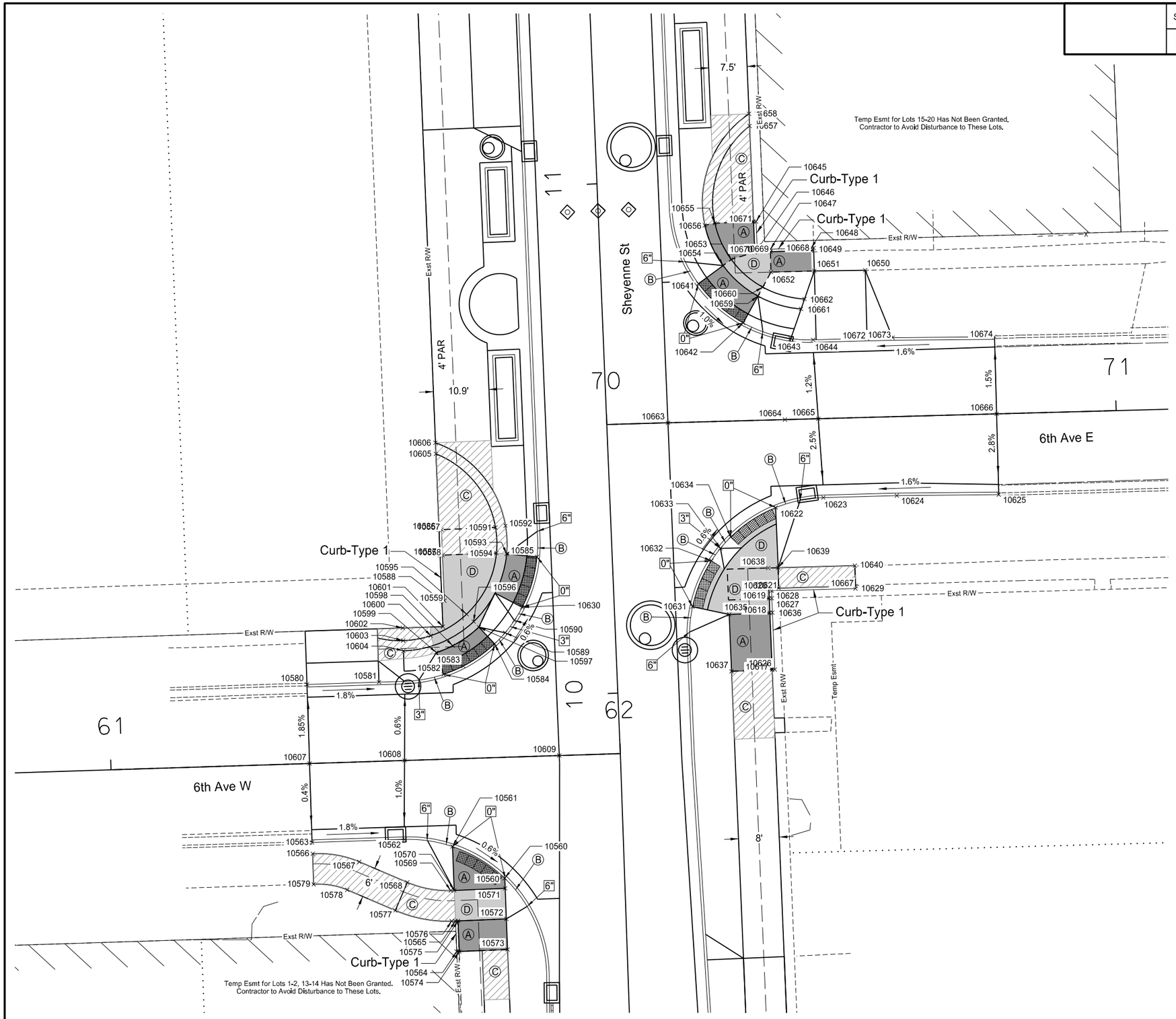
Sheyenne Street

Roadway Details

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	13



LEGEND

- Ⓐ 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓑ 10:1 Maximum Flare Slope
- Ⓒ 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓓ 50:1 Maximum Landing Slope (All Dir.) (Landing)
- Ⓔ 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

N

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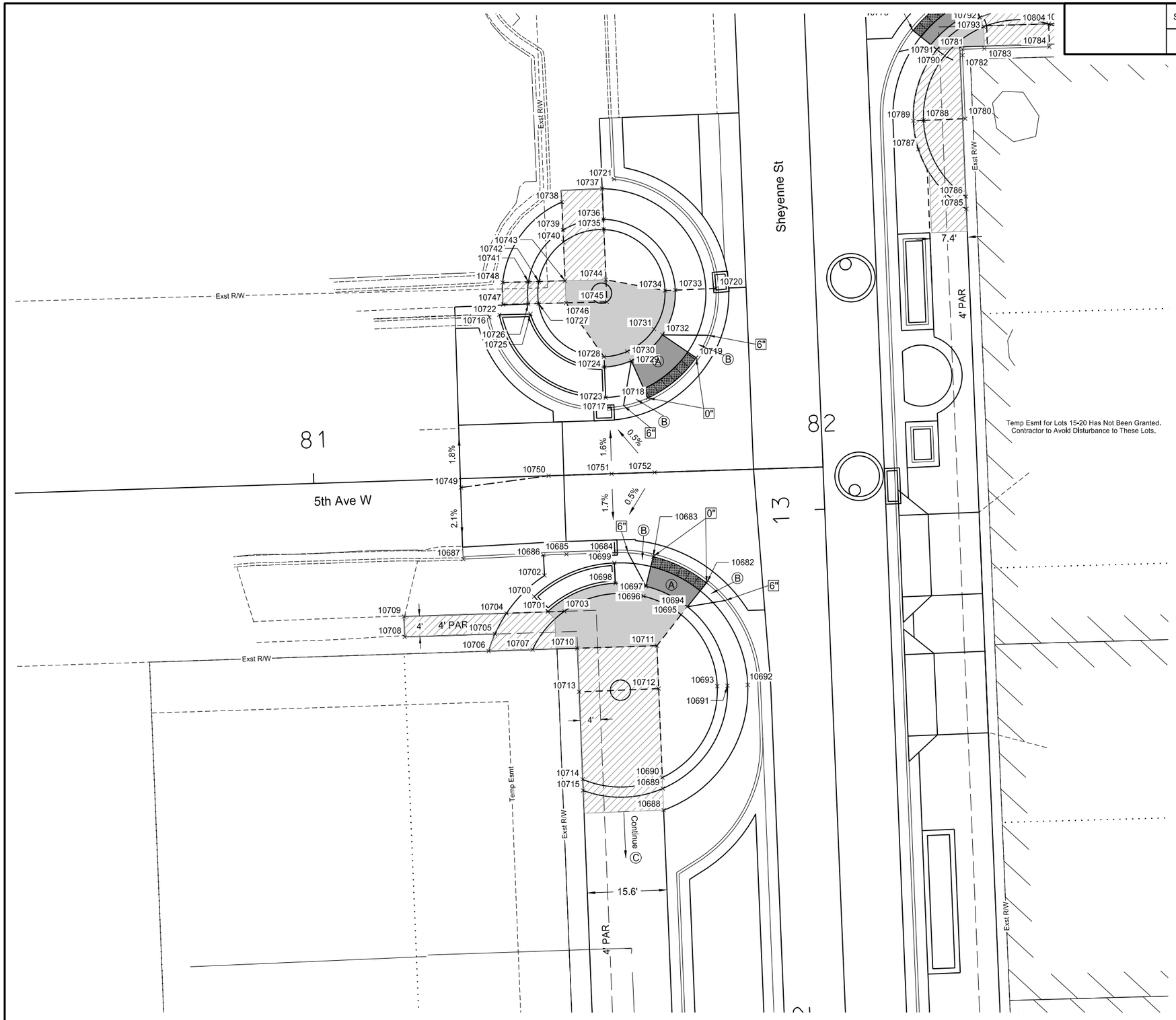
Sheyenne Street

ADA & Street Grading

6th Ave

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	14



LEGEND

- Ⓐ 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓑ 10:1 Maximum Flare Slope
- Ⓒ 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓓ 50:1 Maximum Landing Slope (All Dir.) (Landing)
- Ⓔ 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
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5. See Curb-Type I detail.

N

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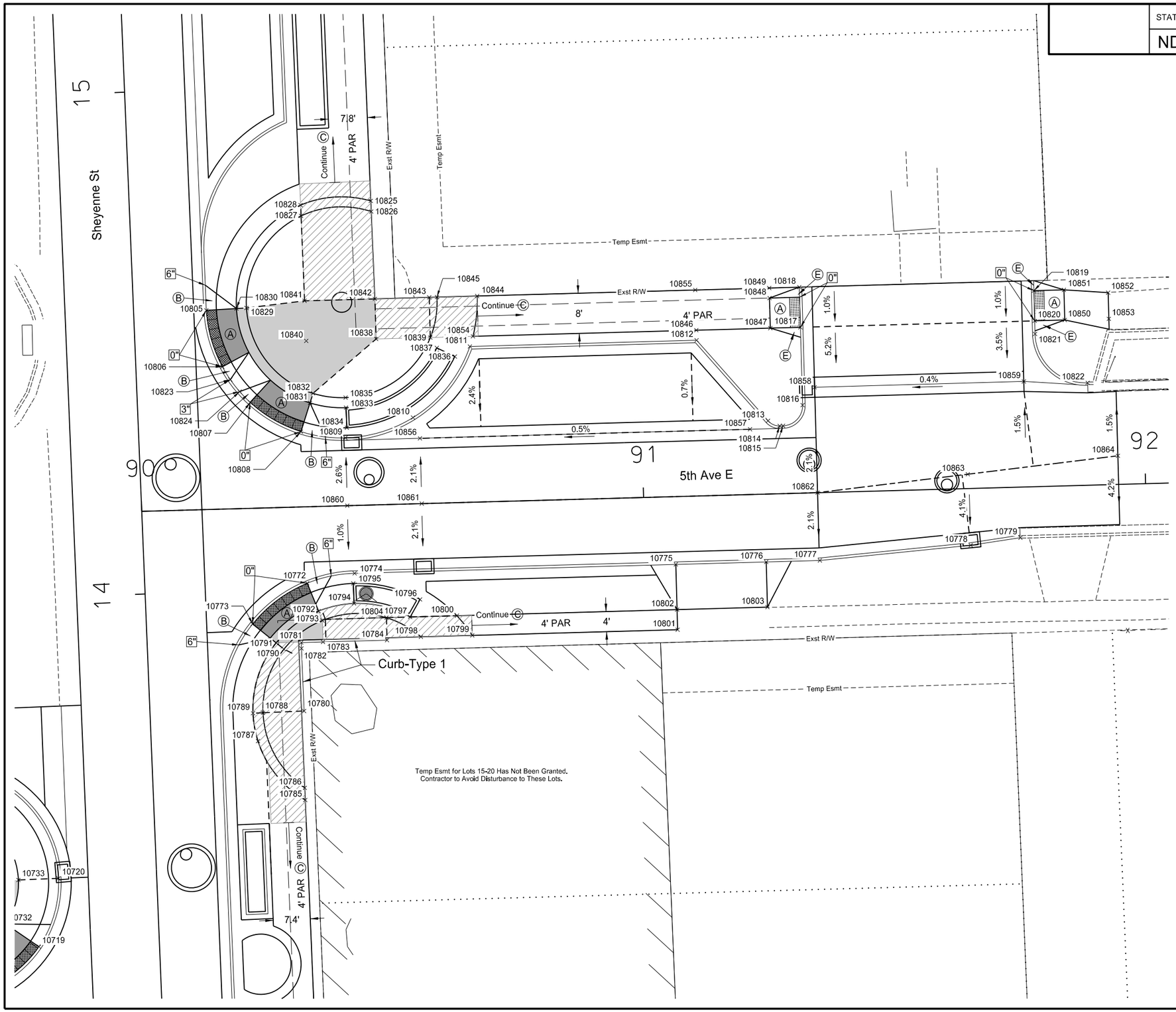
Sheyenne Street

ADA & Street Grading

5th Ave W

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	15



LEGEND

- Ⓐ 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓑ 10:1 Maximum Flare Slope
- Ⓒ 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓓ 50:1 Maximum Landing Slope (All Dir.) (Landing)
- Ⓔ 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

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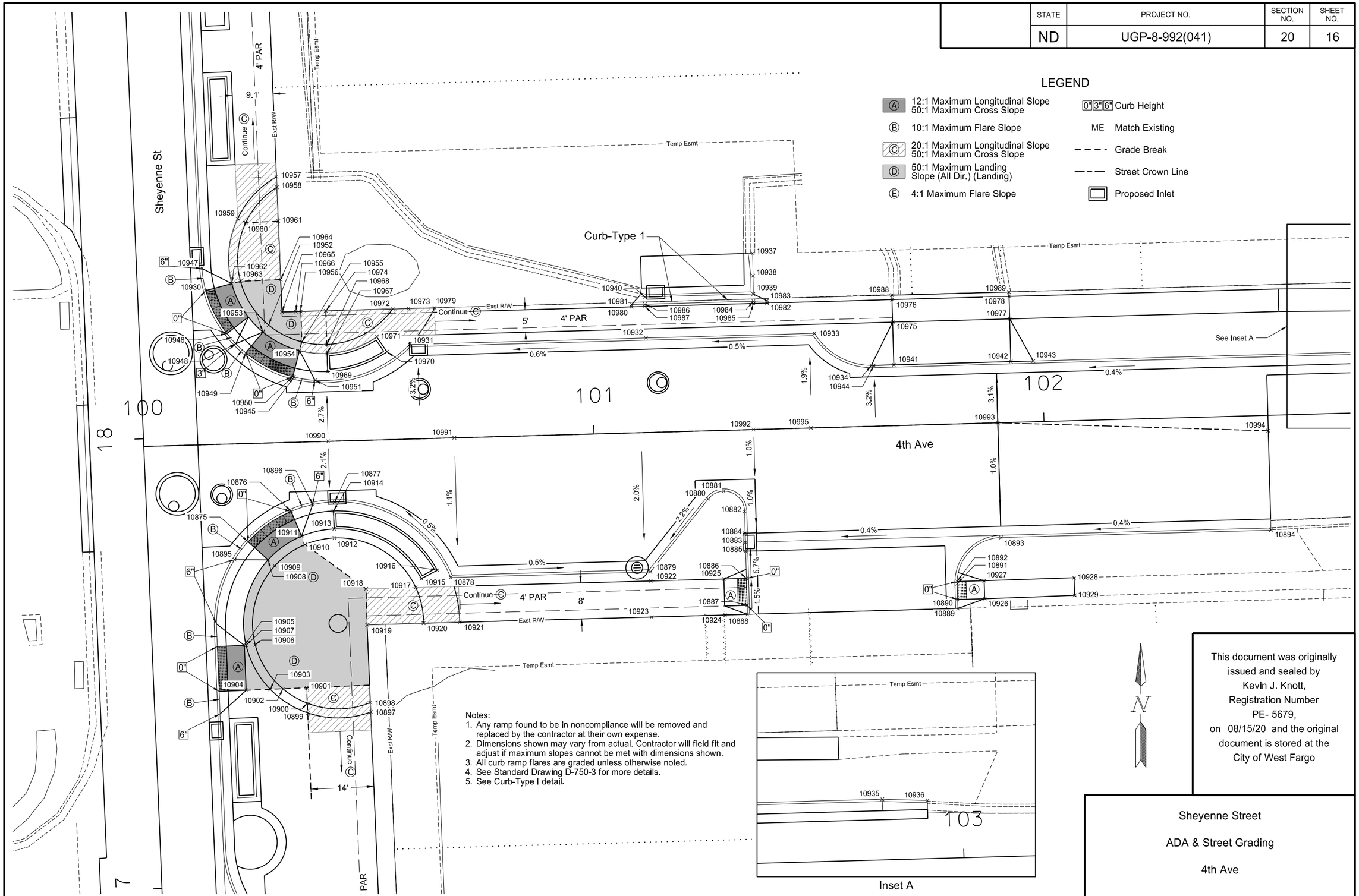
Sheyenne Street

ADA & Street Grading

5th Ave E

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	20	16



Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

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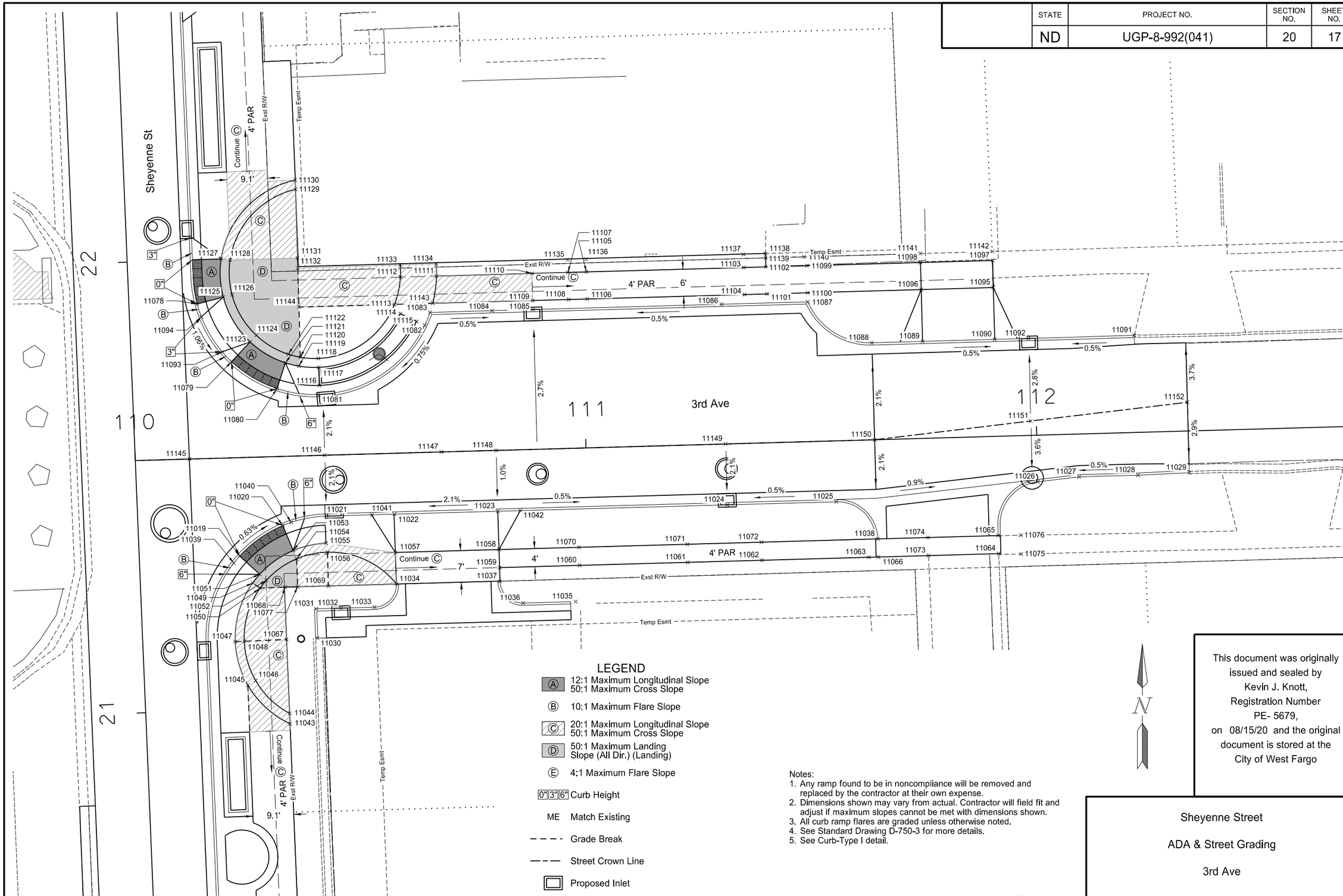
Sheyenne Street

ADA & Street Grading

4th Ave

8/15/2020 4:30:55 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\020GD_016_ADA 4th Ave.dgn

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	20	17



LEGEND

- Ⓐ 12:1 Maximum Longitudinal Slope 50:1 Maximum Cross Slope
- Ⓑ 10:1 Maximum Flare Slope
- Ⓒ 20:1 Maximum Longitudinal Slope 50:1 Maximum Cross Slope
- Ⓓ 50:1 Maximum Landing Slope (All Dir.) (Landing)
- Ⓔ 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

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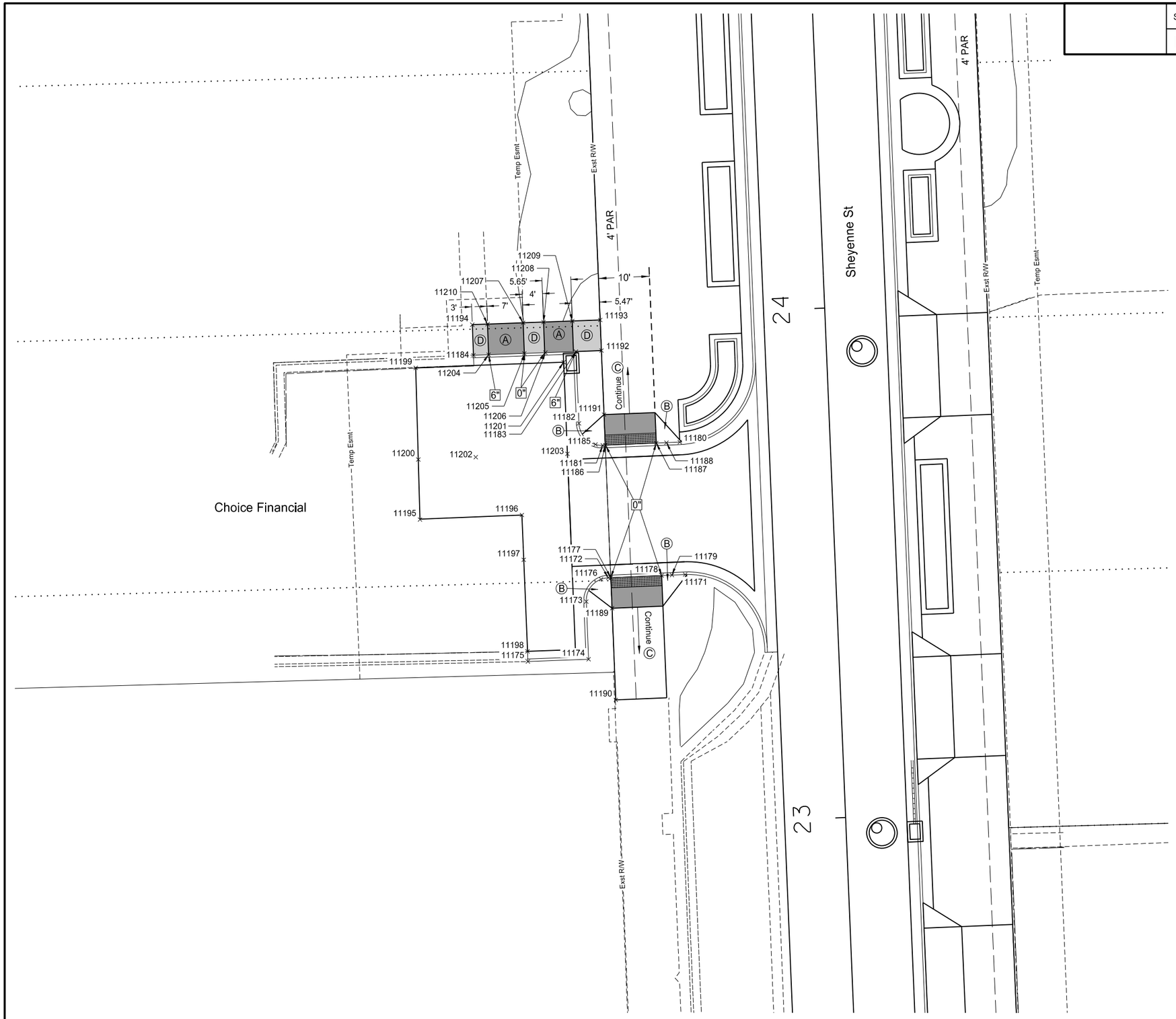
Sheyenne Street

ADA & Street Grading

3rd Ave

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	18



LEGEND

- Ⓐ 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓑ 10:1 Maximum Flare Slope
- Ⓒ 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓓ 50:1 Maximum Landing Slope (All Dir.) (Landing)
- Ⓔ 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
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3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

N

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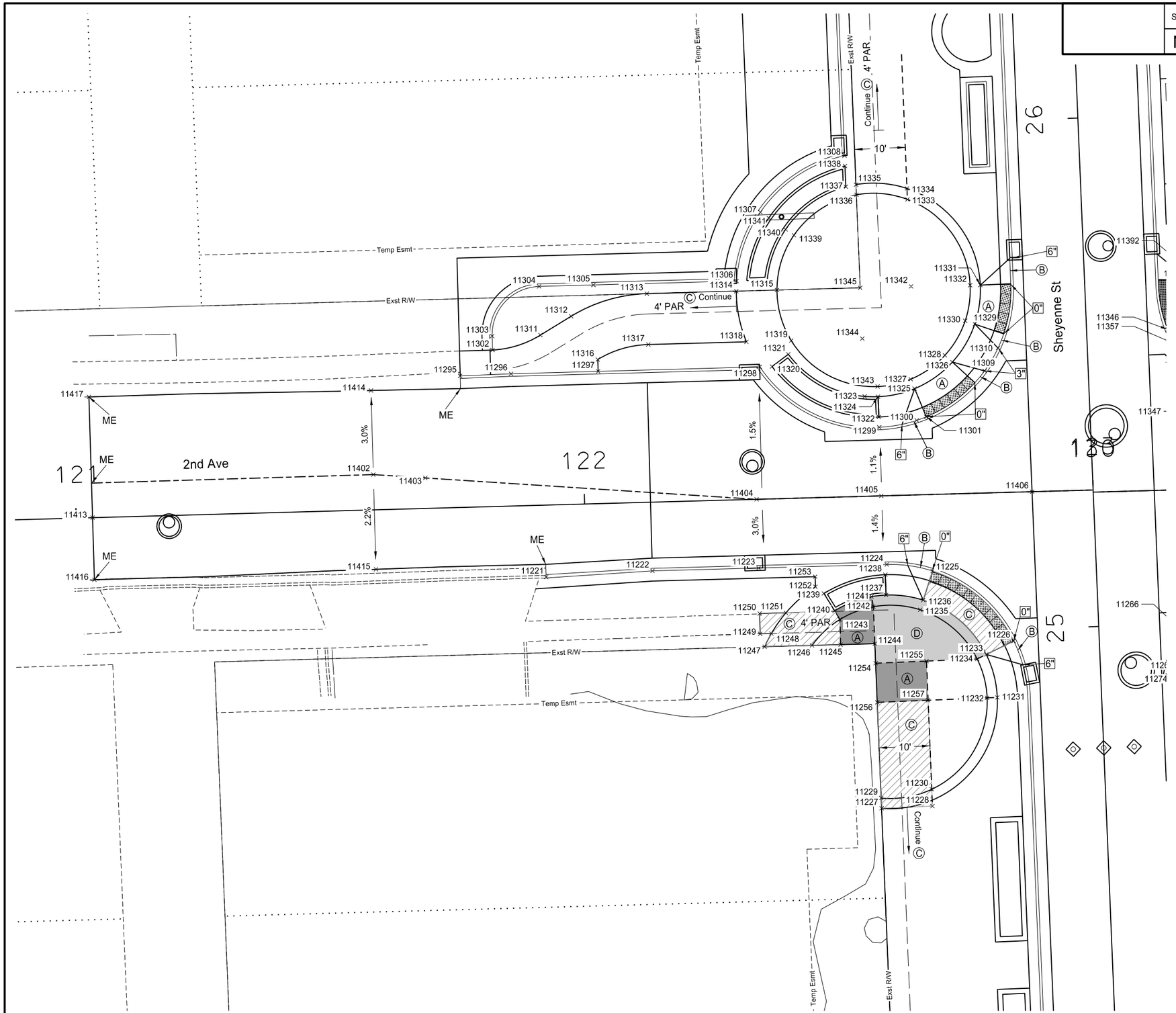
Sheyenne Street

ADA & Grading

Choice Financial

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	20	19



LEGEND

- (A) 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- (B) 10:1 Maximum Flare Slope
- (C) 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- (D) 50:1 Maximum Landing Slope (All Dir.) (Landing)
- (E) 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

N

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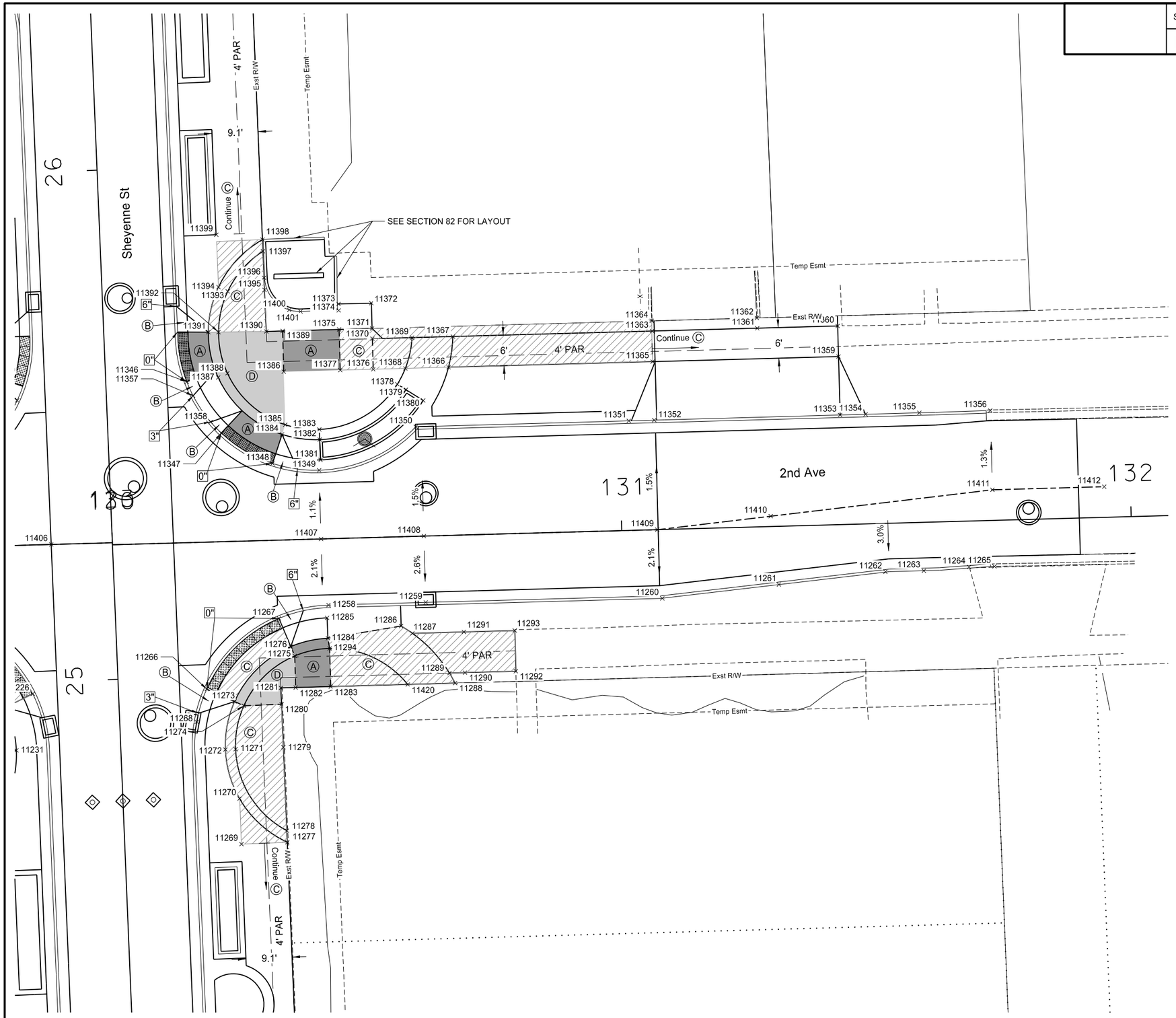
Sheyenne Street

ADA & Street Grading

2nd Ave

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	20



LEGEND

- Ⓐ 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓑ 10:1 Maximum Flare Slope
- Ⓒ 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- Ⓓ 50:1 Maximum Landing Slope (All Dir.) (Landing)
- Ⓔ 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
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3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

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Sheyenne Street

ADA & Street Grading

2nd Ave

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	20	21



LEGEND

- (A) 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- (B) 10:1 Maximum Flare Slope
- (C) 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- (D) 50:1 Maximum Landing Slope (All Dir.) (Landing)
- (E) 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
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3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

N

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Sheyenne Street

ADA & Street Grading

1st Ave

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	22

6th Ave W

Point #	Northing	Easting	Elevation	Description
10557	459736.72	2867871.81	897.20	EOSW
10558	459731.72	2867872.01	896.99	EOSW
10559	459722.77	2867872.37	897.10	EOSW
10560	459668.36	2867884.22	896.74	BOC
10561	459674.58	2867873.96	896.82	BOC
10562	459675.95	2867864.58	897.38	BOC
10563	459675.37	2867846.40	897.71	BOC
10564	459653.97	2867874.79	897.47	BOC
10565	459659.97	2867874.55	897.08	BOC
10566	459673.16	2867846.53	897.83	EOSW
10567	459671.57	2867855.67	897.63	EOSW
10568	459667.54	2867865.09	897.33	EOSW
10569	459665.94	2867873.60	897.00	EOSW
10570	459665.96	2867874.31	896.99	EOSW
10571	459666.36	2867884.30	896.84	EOSW
10572	459660.37	2867884.54	896.93	EOSW
10573	459654.37	2867884.78	897.33	EOSW
10574	459653.99	2867875.29	897.47	EOSW
10575	459659.99	2867875.05	897.07	EOSW
10576	459659.94	2867873.79	897.09	EOSW
10577	459662.03	2867862.73	897.42	EOSW
10578	459666.06	2867853.31	897.72	EOSW
10579	459667.16	2867846.72	897.92	EOSW
10580	459706.35	2867845.41	897.02	BOC
10581	459706.80	2867859.54	896.96	BOC
10582	459708.33	2867872.22	896.81	BOC
10583	459709.96	2867876.07	896.75	BOC
10584	459714.33	2867882.23	896.63	BOC
10585	459731.39	2867890.56	896.34	BOC
10586	459736.70	2867871.31	897.20	BOC
10587	459731.70	2867871.51	897.20	BOC
10588	459722.75	2867871.87	897.10	BOC
10589	459716.51	2867884.29	896.84	BOC
10590	459718.93	2867886.11	896.75	BOC
10591	459737.15	2867882.41	897.04	EOSW
10592	459737.48	2867884.38	897.01	EOSW
10593	459731.96	2867884.58	896.80	EOSW
10594	459732.15	2867882.59	896.83	EOSW
10595	459720.14	2867876.73	897.02	EOSW
10596	459718.69	2867878.11	896.99	EOSW
10597	459717.60	2867879.14	896.97	EOSW
10598	459713.96	2867874.00	897.09	EOSW
10599	459712.60	2867870.79	897.04	EOSW
10600	459715.92	2867869.69	897.09	EOSW
10601	459717.69	2867872.08	897.16	EOSW
10602	459717.44	2867864.20	897.00	EOSW
10603	459714.96	2867864.28	896.98	EOSW
10604	459712.96	2867864.34	896.96	EOSW
10605	459751.60	2867870.70	897.26	EOSW
10606	459753.77	2867870.62	897.26	EOSW
10607	459690.86	2867845.93	897.34	CL
10608	459691.46	2867864.55	897.09	CL
10609	459692.42	2867894.91	896.54	CL

6th Ave E

Point #	Northing	Easting	Elevation	Description
10617	459709.26	2867936.72	897.15	EOSW
10618	459720.42	2867936.25	896.53	EOSW
10619	459723.25	2867936.13	896.50	EOSW
10620	459725.21	2867936.05	896.48	EOSW
10621	459725.26	2867937.99	896.48	EOSW
10622	459741.06	2867937.39	896.18	BOC
10623	459743.00	2867946.75	896.62	BOC
10624	459743.39	2867961.17	896.88	BOC
10625	459743.59	2867981.16	897.23	BOC
10626	459709.29	2867937.22	897.15	BOC
10627	459723.27	2867936.63	896.98	BOC
10628	459724.72	2867936.57	896.98	BOC
10629	459725.17	2867953.06	897.15	BOC
10630	459721.51	2867887.64	896.50	BOC
10631	459721.61	2867921.07	896.33	BOC
10632	459730.63	2867924.78	896.27	BOC
10633	459733.06	2867926.54	896.51	BOC
10634	459735.28	2867928.56	896.24	BOC
10635	459720.09	2867928.26	896.41	EOSW
10636	459720.45	2867936.75	897.53	BOC
10637	459708.93	2867928.72	897.03	EOSW
10638	459729.20	2867935.94	896.44	EOSW
10639	459729.26	2867937.89	896.47	EOSW
10640	459729.67	2867952.94	897.05	EOSW
10641	459784.97	2867922.23	896.44	BOC
10642	459777.28	2867931.01	896.32	BOC
10643	459774.20	2867940.34	896.76	BOC
10644	459773.96	2867944.73	896.34	BOC
10645	459797.17	2867933.54	897.39	BOC
10646	459791.66	2867933.77	897.43	BOC
10647	459791.73	2867936.35	897.43	BOC
10648	459791.95	2867944.35	897.54	BOC
10649	459791.97	2867944.85	897.54	BOC
10650	459787.61	2867954.97	897.68	EOSW
10651	459787.47	2867944.97	897.48	EOSW
10652	459787.24	2867936.47	896.87	EOSW
10653	459789.71	2867928.68	896.86	EOSW
10654	459788.52	2867927.07	896.83	EOSW
10655	459796.84	2867925.45	897.28	EOSW
10656	459796.41	2867923.49	897.25	EOSW
10657	459815.89	2867932.26	897.47	EOSW
10658	459818.29	2867932.16	897.47	EOSW
10659	459782.54	2867933.89	896.78	EOSW
10660	459784.29	2867934.86	896.81	EOSW
10661	459780.01	2867942.37	897.08	EOSW
10662	459781.97	2867943.05	897.18	EOSW
10663	459757.68	2867916.25	896.46	CL
10664	459758.30	2867939.20	896.46	CL
10665	459758.48	2867945.74	896.58	CL
10666	459759.43	2867980.74	897.20	CL
10667	459725.67	2867953.04	897.15	EOSW
10668	459791.45	2867944.36	897.54	EOSW
10669	459791.23	2867936.36	896.93	EOSW
10670	459791.15	2867933.29	896.93	EOSW
10671	459797.15	2867933.04	897.39	EOSW
10672	459774.25	2867955.33	896.51	BOC
10673	459774.38	2867960.33	897.09	BOC
10674	459774.54	2867980.33	897.42	BOC

5th Ave W

Point #	Northing	Easting	Elevation	Description
10682	459989.95	2867870.93	897.03	BOC
10683	459995.12	2867860.46	896.93	BOC
10684	459995.88	2867853.16	897.37	BOC
10685	459995.56	2867843.42	897.61	BOC
10686	459995.39	2867838.91	897.72	BOC
10687	459994.60	2867823.17	898.10	BOC
10688	459945.37	2867862.50	898.28	EOSW
10689	459949.60	2867862.33	898.28	EOSW
10690	459951.76	2867862.24	898.28	EOSW
10691	459969.76	2867875.02	897.77	EOSW
10692	459969.92	2867879.01	897.74	EOSW
10693	459969.68	2867873.02	897.79	EOSW
10694	459985.27	2867867.17	897.31	EOSW
10695	459983.71	2867865.92	897.34	EOSW
10696	459987.35	2867858.56	897.42	EOSW
10697	459989.29	2867859.03	897.39	EOSW
10698	459989.87	2867853.02	897.48	EOSW
10699	459993.86	2867852.83	897.41	EOSW
10700	459987.27	2867837.09	897.76	EOSW
10701	459984.33	2867839.80	897.71	EOSW
10702	459991.39	2867839.11	897.75	EOSW
10703	459984.36	2867843.00	897.65	EOSW
10704	459983.99	2867831.65	897.85	EOSW
10705	459979.92	2867829.39	897.91	EOSW
10706	459976.56	2867828.14	897.96	EOSW
10707	459976.84	2867836.77	897.83	EOSW
10708	459979.34	2867811.67	897.96	EOSW
10709	459983.34	2867811.54	897.91	EOSW
10710	459977.12	2867845.56	897.70	EOSW
10711	459977.63	2867861.18	897.46	EOSW
10712	459969.21	2867861.52	897.87	EOSW
10713	459968.58	2867845.91	898.11	EOSW
10714	459951.41	2867846.60	898.52	EOSW
10715	459949.22	2867846.69	898.52	EOSW
10716	460042.10	2867828.28	897.86	BOC
10717	460024.35	2867851.79	897.42	BOC
10718	460026.23	2867859.40	897.50	BOC
10719	460034.12	2867868.87	897.63	BOC
10720	460047.72	2867872.77	897.78	BOC
10721	460069.16	2867852.79	898.45	BOC
10722	460042.55	2867830.23	898.20	EOSW
10723	460026.31	2867851.13	897.45	EOSW
10724	460032.31	2867850.88	897.56	EOSW
10725	460042.71	2867836.37	897.92	EOSW
10726	460044.70	2867835.94	898.06	EOSW
10727	460044.75	2867837.95	897.99	EOSW
10728	460034.31	2867850.80	897.59	EOSW
10729	460033.54	2867856.16	897.46	EOSW
10730	460035.37	2867855.35	897.49	EOSW
10731	460039.75	2867860.61	897.57	EOSW
10732	460038.62	2867862.26	897.54	EOSW
10733	460047.39	2867864.77	897.70	EOSW
10734	460047.31	2867862.78	897.67	EOSW
10735	460059.29	2867850.77	898.15	EOSW
10736	460061.29	2867850.69	898.23	EOSW
10737	460067.30	2867850.44	898.48	EOSW
10738	460064.68	2867842.51	898.51	EOSW
10739	460059.17	2867842.73	898.28	EOSW
10740	460056.83	2867842.83	898.18	EOSW
10741	460049.03	2867835.96	898.13	EOSW
10742	460049.08	2867838.00	898.06	EOSW
10743	460049.21	2867843.14	897.85	EOSW
10744	460049.42	2867851.18	897.75	EOSW
10745	460045.09	2867851.36	897.68	EOSW
10746	460044.89	2867843.32	897.80	EOSW
10747	460044.57	2867831.01	898.24	EOSW
10748	460048.90	2867830.90	898.31	EOSW
10749	460008.67	2867822.71	897.92	CL
10750	460010.96	2867839.94	897.48	CL
10751	460011.36	2867852.30	897.17	CL
10752	460011.63	2867860.71	897.09	CL

5th Ave E

Point #	Northing	Easting	Elevation	Description
10772	460106.47	2867922.30	897.31	BOC
10773	460098.35	2867911.42	897.42	BOC
10774	460108.45	2867931.74	897.74	BOC
10775	460110.21	2867995.71	897.47	BOC
10776	460110.71	2868013.71	897.53	BOC
10777	460111.00	2868024.40	898.07	BOC
10778	460114.03	2868054.45	897.80	BOC
10779	460115.53	2868064.35	897.85	BOC
10780	460081.03	2867921.68	897.97	BOC
10781	460094.65	2867921.11	897.92	BOC
10782	460093.49	2867921.15	897.92	BOC
10783	460094.77	2867925.44	897.92	BOC
10784	460095.12	2867938.19	898.10	BOC
10785	460063.31	2867921.92	898.08	EOSW
10786	460065.74	2867921.81	898.08	EOSW
10787	460075.04	2867912.49	897.89	EOSW
10788	460080.69	2867913.50	897.85	EOSW
10789	460080.60	2867911.50	897.82	EOSW
10790	460093.35	2867917.66	897.47	EOSW
10791	460094.60	2867916.10	897.44	EOSW
10792	460100.91	2867924.57	897.43	EOSW
10793	460099.06	2867925.32	897.45	EOSW
10794	460102.44	2867931.63	897.74	EOSW
10795	460106.44	2867931.46	897.77	EOSW
10796	460103.24	2867944.78	897.94	EOSW
10797	460099.75	2867942.81	898.10	EOSW
10798	460095.81	2867944.94	898.18	EOSW
10799	460096.09	2867955.18	898.30	EOSW
10800	460100.01	2867952.10	898.21	EOSW
10801	460097.22	2867996.07	898.23	EOSW
10802	460101.22	2867995.96	898.17	EOSW
10803	460101.71	2868013.95	898.13	EOSW
10804	460099.62	2867938.07	898.04	EOSW
10805	460160.79	2867902.21	897.85	BOC
10806	460149.57	2867905.41	897.77	BOC
10807	460142.48	2867910.94	897.71	BOC
10808	460136.65	2867921.05	897.64	BOC
10809	460135.41	2867929.90	897.58	BOC
10810	460139.44	2867943.37	897.66	BOC
10811	460153.60	2867954.69	898.20	BOC
10812	460154.84	2867999.85	898.20	BOC
10813	460138.80	2868014.07	898.05	BOC
10814	460137.79	2868016.40	898.03	BOC
10815	460137.81	2868017.07	898.04	BOC
10816	460141.92	2868020.96	897.99	BOC
10817	460157.41	2868020.53	897.99	BOC
10818	460165.41	2868020.31	898.15	BOC
10819	460164.70	2868067.02	898.11	BOC
10820	460158.70	2868067.19	898.01	BOC
10821	460156.09	2868067.26	898.46	BOC
10822	460146.38	2868077.72	898.20	BOC
10823	460147.01	2867906.98	897.50	BOC
10824	460144.62	2867908.84	897.48	BOC
10825	460182.58	2867934.95	898.32	EOSW
10826	460180.47	2867935.04	898.33	EOSW
10827	460179.59	2867921.07	898.12	EOSW
10828	460181.74	2867920.98	898.11	EOSW
10829	460161.27	2867910.19	897.63	EOSW
10830	460161.15	2867908.20	897.60	EOSW
10831	460142.37	2867922.85	897.48	EOSW
10832	460144.28	2867923.45	897.51	EOSW
10833	460141.42	2867930.02	897.65	EOSW
10834	460137.42	2867930.19	897.61	EOSW
10835	460143.41	2867929.94	897.68	EOSW
10836	460151.60	2867951.71	898.16	EOSW
10837	460153.33	2867948.10	898.21	EOSW
10838	460155.08	2867936.02	897.73	EOSW
10839	460155.38	2867946.82	898.23	EOSW
10840	460154.70	2867922.10	897.65	EOSW
10841	460162.70	2867921.77	897.72	EOSW
10842	460163.08	2867935.77	897.85	EOSW

5th Ave E Cont.

Point #	Northing	Easting	Elevation	Description
10843	460163.38	2867946.60	898.35	EOSW
10844	460163.64	2867956.13	898.35	EOSW
10845	460163.42	2867948.13	898.35	EOSW
10846	460156.84	2867999.79	898.23	EOSW
10847	460157.25	2868014.53	898.23	EOSW
10848	460163.25	2868014.37	898.32	EOSW
10849	460165.25	2868014.31	898.35	EOSW
10850	460158.87	2868073.19	898.16	EOSW
10851	460164.86	2868073.02	898.25	EOSW
10852	460164.31	2868081.81	898.35	EOSW
10853	460159.11	2868081.95	898.22	EOSW
10854	460155.62	2867955.30	898.23	EOSW
10855	460164.84	2867999.57	898.35	EOSW
10856	460135.32	2867944.75	897.09	FL
10857	460137.13	2868010.49	897.50	FL
10858	460145.49	2868023.36	897.47	FL
10859	460146.64	2868065.02	897.64	FL
10860	460121.91	2867930.28	897.44	CL
10861	460122.32	2867945.10	897.47	CL
10862	460124.50	2868023.94	897.88	CL
10863	460128.17	2868053.87	897.86	CL
10864	460131.84	2868083.76	898.07	CL

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Sheyenne Street

ADA & Street Grading Points

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	23

4th Ave				
Point #	Northing	Easting	Elevation	Description
10875	460481.12	2867896.84	896.54	BOC
10876	460487.87	2867906.40	896.48	BOC
10877	460489.96	2867916.08	896.93	BOC
10878	460473.16	2867941.82	897.15	BOC
10879	460474.39	2867986.17	896.93	BOC
10880	460490.65	2867999.06	897.38	BOC
10881	460492.35	2868002.46	897.45	BOC
10882	460487.85	2868007.09	897.39	BOC
10883	460480.98	2868007.28	897.32	BOC
10884	460482.98	2868007.22	897.34	BOC
10885	460478.98	2868007.33	897.34	BOC
10886	460472.98	2868007.50	897.18	BOC
10887	460466.98	2868007.66	897.27	BOC
10888	460464.98	2868007.72	897.30	BOC
10889	460466.28	2868054.47	897.30	BOC
10890	460468.28	2868054.41	897.28	BOC
10891	460471.78	2868054.31	897.24	BOC
10892	460472.28	2868054.31	897.23	BOC
10893	460482.05	2868064.04	897.56	BOC
10894	460483.67	2868124.00	897.80	BOC
10895	460477.12	2867893.83	897.07	BOC
10896	460489.37	2867911.17	896.96	BOC
10897	460443.26	2867924.08	897.41	EOSW
10898	460445.37	2867923.99	897.39	EOSW
10899	460443.08	2867910.08	897.20	EOSW
10900	460445.24	2867909.99	897.17	EOSW
10901	460448.66	2867909.85	897.13	EOSW
10902	460448.44	2867904.58	897.05	EOSW
10903	460448.32	2867901.78	897.00	EOSW
10904	460448.10	2867896.42	896.92	EOSW
10905	460458.09	2867896.01	896.92	EOSW
10906	460458.19	2867898.43	896.95	EOSW
10907	460458.10	2867896.39	896.93	EOSW
10908	460477.09	2867901.28	896.88	EOSW
10909	460475.74	2867902.76	896.91	EOSW
10910	460480.49	2867909.49	896.85	EOSW
10911	460482.34	2867908.71	896.82	EOSW
10912	460481.95	2867916.02	897.03	EOSW
10913	460483.95	2867915.96	897.00	EOSW
10914	460487.95	2867915.80	896.96	EOSW
10915	460472.90	2867935.33	897.22	EOSW
10916	460474.79	2867938.85	897.18	EOSW
10917	460470.95	2867934.07	897.25	EOSW
10918	460470.64	2867923.05	897.13	EOSW
10919	460462.64	2867923.27	897.25	EOSW
10920	460462.99	2867935.82	897.37	EOSW
10921	460463.21	2867943.82	897.34	EOSW
10922	460472.39	2867986.23	896.96	EOSW
10923	460464.39	2867986.45	897.08	EOSW
10924	460464.84	2868002.72	897.30	EOSW
10925	460472.84	2868002.50	897.18	EOSW
10926	460468.44	2868060.41	897.78	EOSW
10927	460472.44	2868060.30	897.72	EOSW
10928	460473.12	2868080.29	898.22	EOSW
10929	460469.18	2868080.40	898.22	EOSW
10930	460536.91	2867887.42	896.52	BOC
10931	460524.93	2867932.70	896.76	BOC
10932	460526.38	2867985.18	897.09	BOC
10933	460527.42	2868022.63	897.27	BOC
10934	460520.28	2868035.24	897.33	BOC
10935	460523.59	2868155.41	897.81	BOC
10936	460523.29	2868165.43	897.85	BOC
10937	460545.18	2868008.90	898.25	BOC
10938	460540.20	2868008.97	898.07	BOC
10939	460536.15	2868009.03	898.02	BOC
10940	460535.48	2867984.92	897.86	BOC
10941	460520.40	2868040.24	896.85	BOC
10942	460521.12	2868066.23	896.95	BOC
10943	460521.26	2868071.23	897.47	BOC
10944	460520.28	2868035.83	897.27	BOC
10945	460517.69	2867907.03	896.89	BOC

4th Ave Cont.				
Point #	Northing	Easting	Elevation	Description
10946	460527.38	2867892.14	896.47	BOC
10947	460541.83	2867886.57	897.05	BOC
10948	460525.11	2867894.11	896.71	BOC
10949	460523.08	2867896.31	896.45	BOC
10950	460517.76	2867906.76	896.39	BOC
10951	460516.97	2867911.69	896.87	BOC
10952	460529.25	2867901.40	896.87	EOSW
10953	460527.71	2867900.13	896.84	EOSW
10954	460523.57	2867908.25	896.80	EOSW
10955	460525.51	2867908.75	896.83	EOSW
10956	460532.26	2867908.57	896.93	EOSW
10957	460562.17	2867903.12	897.34	EOSW
10958	460559.89	2867903.22	897.33	EOSW
10959	460552.86	2867894.50	897.16	EOSW
10960	460552.01	2867896.31	897.19	EOSW
10961	460552.31	2867903.53	897.30	EOSW
10962	460538.46	2867893.21	896.82	EOSW
10963	460538.98	2867895.14	896.85	EOSW
10964	460539.35	2867904.06	896.98	EOSW
10965	460532.15	2867904.36	896.93	EOSW
10966	460532.23	2867907.42	896.93	EOSW
10967	460522.92	2867914.36	896.93	EOSW
10968	460524.92	2867914.30	896.96	EOSW
10969	460518.93	2867914.52	896.87	EOSW
10970	460523.31	2867927.67	896.92	EOSW
10971	460526.61	2867925.40	896.98	EOSW
10972	460532.83	2867928.93	897.07	EOSW
10973	460532.92	2867932.48	897.07	EOSW
10974	460532.42	2867914.09	897.07	EOSW
10975	460529.90	2868039.98	897.58	EOSW
10976	460534.90	2868039.84	897.66	EOSW
10977	460530.62	2868065.97	897.64	EOSW
10978	460535.62	2868065.83	897.72	EOSW
10979	460533.08	2867938.23	897.07	EOSW
10980	460533.30	2867981.98	897.19	EOSW
10981	460533.80	2867981.97	897.19	EOSW
10982	460534.13	2868012.09	897.35	EOSW
10983	460534.63	2868012.08	897.35	EOSW
10984	460534.55	2868009.08	897.82	EOSW
10985	460534.05	2868009.09	897.32	EOSW
10986	460533.88	2867984.97	897.70	EOSW
10987	460533.38	2867984.98	897.20	EOSW
10988	460535.89	2868039.81	897.68	EOSW
10989	460536.61	2868065.80	897.75	EOSW
10990	460503.42	2867914.62	896.74	CL
10991	460504.20	2867942.64	897.03	CL
10992	460506.04	2868009.08	897.15	CL
10993	460507.54	2868063.34	897.37	CL
10994	460505.77	2868123.40	897.87	CL
10995	460506.39	2868021.84	897.20	CL

3rd Ave				
Point #	Northing	Easting	Elevation	Description
11019	460838.44	2867882.10	895.87	BOC
11020	460845.22	2867891.66	895.80	BOC
11021	460847.31	2867901.35	896.24	BOC
11022	460847.74	2867916.42	896.06	BOC
11023	460848.38	2867939.34	896.55	BOC
11024	460849.81	2867990.27	896.80	BOC
11025	460850.49	2868014.42	896.92	BOC
11026	460854.94	2868059.15	896.67	BOC
11027	460856.01	2868068.29	896.72	BOC
11028	460856.38	2868081.37	896.78	BOC
11029	460856.92	2868092.75	896.84	BOC
11030	460820.24	2867899.36	897.42	BOC
11031	460826.74	2867899.07	897.34	BOC
11032	460826.90	2867904.58	897.28	BOC
11033	460827.11	2867912.00	897.34	BOC
11034	460832.24	2867916.86	896.93	BOC
11035	460828.36	2867956.62	898.66	BOC
11036	460828.03	2867944.99	898.54	BOC
11037	460832.87	2867939.85	897.41	BOC
11038	460842.25	2868023.66	897.10	BOC
11039	460836.91	2867880.81	896.38	BOC
11040	460845.93	2867893.53	896.30	BOC
11041	460847.60	2867911.42	896.45	BOC
11042	460848.52	2867944.34	897.03	BOC
11043	460801.27	2867893.28	896.81	EOSW
11044	460803.55	2867893.18	896.80	EOSW
11045	460809.84	2867883.92	896.65	EOSW
11046	460810.84	2867885.65	896.68	EOSW
11047	460819.46	2867881.13	896.54	EOSW
11048	460819.54	2867883.13	896.57	EOSW
11049	460832.48	2867884.99	896.12	EOSW
11050	460831.32	2867886.62	896.15	EOSW
11051	460834.42	2867886.54	896.12	EOSW
11052	460833.08	2867888.03	896.15	EOSW
11053	460839.69	2867893.98	896.09	EOSW
11054	460837.84	2867894.76	896.12	EOSW
11055	460841.31	2867901.25	896.33	EOSW
11056	460839.32	2867901.58	896.36	EOSW
11057	460839.24	2867916.65	896.83	EOSW
11058	460839.89	2867939.62	897.30	EOSW
11059	460835.89	2867939.75	897.36	EOSW
11060	460836.39	2867957.50	897.36	EOSW
11061	460837.06	2867981.49	897.36	EOSW
11062	460837.52	2867997.94	897.33	EOSW
11063	460838.19	2868021.65	897.18	EOSW
11064	460839.00	2868050.44	897.16	EOSW
11065	460843.00	2868050.32	897.10	EOSW
11066	460838.25	2868023.77	897.16	EOSW
11067	460819.93	2867892.51	896.71	EOSW
11068	460831.55	2867892.18	896.21	EOSW
11069	460831.82	2867901.79	896.48	EOSW
11070	460840.39	2867957.39	897.30	EOSW
11071	460841.06	2867981.38	897.30	EOSW
11072	460841.52	2867997.82	897.27	EOSW
11073	460838.56	2868034.88	897.08	EOSW
11074	460842.56	2868034.76	897.02	EOSW
11075	460838.92	2868055.44	897.20	EOSW
11076	460843.07	2868055.32	897.13	EOSW
11077	460831.63	2867894.93	896.21	EOSW
11078	460894.35	2867872.68	896.09	BOC
11079	460881.56	2867880.32	895.95	BOC
11080	460875.60	2867890.39	895.83	BOC
11081	460874.27	2867899.54	896.24	BOC
11082	460889.62	2867923.14	896.46	BOC
11083	460892.48	2867924.31	896.48	BOC
11084	460892.86	2867938.09	896.41	BOC
11085	460893.12	2867947.15	896.36	BOC
11086	460894.30	2867989.01	896.57	BOC
11087	460894.83	2868008.11	896.66	BOC
11088	460885.73	2868022.32	896.80	BOC
11089	460886.04	2868033.58	896.24	BOC

3rd Ave Cont.				
Point #	Northing	Easting	Elevation	Description
11090	460886.49	2868049.57	896.16	BOC
11091	460887.41	2868080.49	896.74	BOC
11092	460886.70	2868057.03	896.62	BOC
11093	460883.73	2867878.25	896.30	BOC
11094	460891.50	2867873.61	896.34	BOC
11095	460897.99	2868049.25	896.87	EOSW
11096	460897.54	2868033.25	896.85	EOSW
11097	460903.99	2868049.08	896.96	EOSW
11098	460903.54	2868033.09	896.94	EOSW
11099	460902.83	2868007.88	896.83	EOSW
11100	460896.83	2868008.05	896.74	EOSW
11101	460896.57	2867998.99	896.59	EOSW
11102	460902.57	2867998.83	896.68	EOSW
11103	460902.44	2867993.93	896.60	EOSW
11104	460896.44	2867994.10	896.51	EOSW
11105	460901.46	2867959.03	896.51	EOSW
11106	460895.46	2867959.20	896.42	EOSW
11107	460901.34	2867954.90	896.51	EOSW
11108	460895.34	2867955.07	896.42	EOSW
11109	460895.12	2867947.09	896.39	EOSW
11110	460901.12	2867946.92	896.48	EOSW
11111	460900.52	2867925.77	896.63	EOSW
11112	460900.30	2867917.75	896.69	EOSW
11113	460894.25	2867916.44	896.60	EOSW
11114	460892.21	2867917.73	896.56	EOSW
11115	460890.48	2867921.33	896.49	EOSW
11116	460876.28	2867899.81	896.28	EOSW
11117	460880.28	2867899.64	896.37	EOSW
11118	460882.28	2867899.56	896.41	EOSW
11119	460880.57	2867895.22	896.33	EOSW
11120	460882.54	2867895.56	896.36	EOSW
11121	460881.30	2867892.26	896.32	EOSW
11122	460883.20	2867892.88	896.35	EOSW
11123	460885.94	2867884.42	896.37	EOSW
11124	460887.40	2867885.79	896.40	EOSW
11125	460895.88	2867878.48	896.43	EOSW
11126	460896.40	2867880.41	896.45	EOSW
11127	460904.41	2867878.02	896.46	EOSW
11128	460904.11	2867879.99	896.49	EOSW
11129	460919.78	2867894.51	896.86	EOSW
11130	460921.81	2867894.43	896.87	EOSW
11131	460904.53	2867894.94	896.72	EOSW
11132	460902.31	2867895.00	896.68	EOSW
11133	460903.01	2867917.70	896.73	EOSW
11134	460903.25	2867925.71	896.75	EOSW
11135	460904.15	2867954.83	896.80	EOSW
11136	460904.28	2867958.95	896.80	EOSW
11137	460905.35	2867993.85	896.80	EOSW
11138	460905.50	2867998.73	896.99	EOSW
11139	460904.55	2867998.76	896.90	EOSW
11140	460904.79	2868007.29	897.14	EOSW
11141	460905.54	2868033.03	897.04	EOSW
11142	460905.99	2868049.02	897.04	EOSW
11143	460894.49	2867924.92	896.54	EOSW
11144	460893.66	2867895.24	896.55	EOSW
11145	460859.96	2867870.96	896.17	CL
11146	460860.81	2867900.97	896.05	CL
11147	460861.54	2867926.86	896.52	CL
11148	460861.88	2867938.97	896.74	CL
11149	460863.31	2867989.89	896.61	CL
11150	460864.24	2868022.93	896.78	CL
11151	460868.39	2868057.54	896.64	CL
11152	460872.56	2868092.30	896.82	CL

Choice Financial				
Point #	Northing	Easting	Elevation	Description
11171	461051.21	2867821.55	898.28	BOC
11172	461050.59	2867806.45	898.17	BOC
11173	461045.90	2867802.14	898.64	BOC
11174	461034.59	2867802.60	898.78	BOC
11175	461034.15	2867790.68	898.98	BOC
11176	461050.30	2867805.04	898.56	BOC
11177	461050.61	2867806.95	898.03	BOC
11178	461051.02	2867816.94	897.86	BOC
11179	461051.10	2867818.95	898.32	BOC
11180	461077.19	2867820.48	898.64	BOC
11181	461076.56	2867805.38	898.55	BOC
11182	461080.87	2867800.69	899.03	BOC
11183	461094.96	2867800.11	898.88	BOC
11184	461094.23	2867780.01	899.07	BOC
11185	461076.74	2867803.94	898.95	BOC
11186	461076.58	2867805.88	898.41	BOC
11187	461077.00	2867815.87	898.23	BOC
11188	461077.08	2867817.87	898.69	BOC
11189	461044.61	2867807.21	898.27	EOSW
11190	461026.63	2867807.93	898.26	EOSW
11191	461082.58	2867805.63	898.65	EOSW
11192	461095.15	2867805.11	898.83	EOSW
11193	461101.14	2867804.86	898.8	EOSW
11194	461100.22	2867779.76	899.14	EOSW
11195	461062.00	2867769.50	899.18	ME
11196	461062.90	2867789.50	898.74	ME
11197	461054.11	2867789.86	898.72	ME
11198	461036.14	2867790.60	898.56	ME
11199	461091.75	2867768.67	898.72	ME
11200	461073.77	2867769.18	899.13	ME
11201	461092.87	2867797.70	898.46	ME
11202	461074.24	2867780.45	898.92	PVMT
11203	461074.89	2867798.44	898.68	PVMT
11204	461094.33	2867782.98	899.02	BOC
11205	461094.59	2867789.98	898.46	BOC
11206	461094.74	2867794.12	898.42	BOC
11207	461100.59	2867789.76	898.55	EOSW
11208	461100.73	2867793.76	898.51	EOSW
11209	461100.94	2867799.40	898.97	EOSW
11210	461100.33	2867782.76	899.11	EOSW

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Sheyenne Street

ADA & Street Grading Points

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	24

2nd Ave W				
Point #	Northing	Easting	Elevation	Description
11221	461213.09	2867736.19	898.29	BOC
11222	461214.30	2867757.08	898.16	BOC
11223	461214.87	2867777.93	898.04	BOC
11224	461215.57	2867803.14	898.14	BOC
11225	461214.28	2867812.16	897.51	BOC
11226	461200.54	2867828.08	897.21	BOC
11227	461167.65	2867802.13	898.80	EOSW
11228	461168.06	2867812.12	898.64	EOSW
11229	461169.67	2867802.04	898.80	EOSW
11230	461171.39	2867811.98	898.64	EOSW
11231	461189.44	2867824.86	897.89	EOSW
11232	461189.36	2867822.86	897.92	EOSW
11233	461197.88	2867822.71	897.51	EOSW
11234	461197.00	2867820.91	897.54	EOSW
11235	461206.66	2867809.70	897.64	EOSW
11236	461208.57	2867810.32	897.61	EOSW
11237	461209.56	2867803.01	897.74	EOSW
11238	461213.56	2867802.85	898.17	EOSW
11239	461209.87	2867790.78	898.18	EOSW
11240	461206.47	2867792.88	898.24	EOSW
11241	461209.24	2867800.14	897.77	EOSW
11242	461207.27	2867800.49	897.74	EOSW
11243	461204.76	2867793.93	898.21	EOSW
11244	461200.00	2867800.79	897.84	EOSW
11245	461199.81	2867794.06	898.28	EOSW
11246	461199.66	2867788.44	898.32	EOSW
11247	461199.40	2867779.14	898.38	EOSW
11248	461201.99	2867780.45	898.34	EOSW
11249	461201.93	2867778.24	898.34	EOSW
11250	461205.93	2867778.13	898.26	EOSW
11251	461206.07	2867783.31	898.26	EOSW
11252	461211.18	2867789.11	898.14	EOSW
11253	461213.18	2867789.05	898.11	EOSW
11254	461196.17	2867800.95	897.84	EOSW
11255	461196.59	2867810.94	897.69	EOSW
11256	461188.47	2867801.27	898.44	EOSW
11257	461188.88	2867811.26	898.29	EOSW
11295	461252.63	2867719.26	898.47	BOC
11296	461253.05	2867729.26	898.40	BOC
11297	461253.52	2867746.39	898.27	BOC
11298	461254.40	2867778.18	898.03	BOC
11299	461242.54	2867801.66	898.17	BOC
11300	461243.89	2867809.03	898.14	BOC
11301	461244.58	2867810.91	897.63	BOC
11302	461257.71	2867725.63	898.49	BOC
11303	461260.45	2867725.56	899.06	BOC
11304	461270.21	2867734.79	899.48	BOC
11305	461270.50	2867745.47	899.76	BOC
11306	461271.28	2867773.60	899.37	BOC
11307	461284.81	2867778.29	899.79	BOC
11308	461295.91	2867794.84	899.39	BOC
11309	461253.61	2867822.36	897.81	BOC
11310	461258.11	2867825.02	897.78	BOC
11311	461260.64	2867735.06	898.46	EOSW
11312	461264.35	2867741.09	898.45	EOSW
11313	461268.79	2867755.98	898.94	EOSW
11314	461269.27	2867773.55	898.70	EOSW
11315	461269.49	2867781.55	898.55	EOSW
11316	461255.84	2867746.33	898.30	EOSW
11317	461258.79	2867756.25	898.79	EOSW
11318	461259.32	2867775.55	898.55	EOSW
11319	461259.56	2867784.36	898.37	EOSW
11320	461254.46	2867780.59	898.11	EOSW
11321	461256.87	2867783.78	898.26	EOSW
11322	461244.54	2867801.57	898.07	EOSW
11323	461248.59	2867798.79	897.92	EOSW
11324	461248.53	2867801.41	897.87	EOSW
11325	461250.12	2867808.60	897.75	EOSW
11326	461255.34	2867816.03	897.80	EOSW
11327	461251.97	2867807.84	897.78	EOSW
11328	461256.69	2867814.56	897.83	EOSW

2nd Ave W Cont.				
Point #	Northing	Easting	Elevation	Description
11329	461262.81	2867820.45	897.85	EOSW
11330	461263.45	2867818.55	897.88	EOSW
11331	461270.48	2867821.52	897.89	EOSW
11332	461270.44	2867819.52	897.92	EOSW
11333	461287.31	2867807.21	898.40	EOSW
11334	461289.46	2867807.12	898.44	EOSW
11335	461290.23	2867797.08	898.61	EOSW
11336	461288.21	2867797.16	898.58	EOSW
11337	461289.80	2867795.09	898.61	EOSW
11338	461293.88	2867794.93	899.13	EOSW
11339	461280.28	2867784.89	898.56	EOSW
11340	461281.41	2867783.24	898.59	EOSW
11341	461283.67	2867779.94	899.39	EOSW
11342	461270.22	2867807.91	898.04	EOSW
11343	461250.53	2867801.33	897.90	EOSW
11344	461259.95	2867798.32	898.00	EOSW
11345	461269.94	2867797.91	898.15	EOSW
11402	461233.24	2867702.21	898.59	CL
11403	461232.58	2867712.42	898.50	CL
11404	461228.37	2867777.56	897.95	CL
11405	461229.04	2867802.06	897.87	CL
11406	461229.86	2867831.70	897.35	CL
11413	461224.77	2867647.01	898.85	CL
11414	461249.75	2867701.75	898.10	EOP
11415	461214.62	2867702.72	898.19	EOP
11416	461212.57	2867647.37	898.43	EOP
11417	461248.50	2867646.29	898.21	EOP

2nd Ave E				
Point #	Northing	Easting	Elevation	Description
11258	461217.96	2867886.11	896.81	BOC
11259	461218.49	2867905.21	896.72	BOC
11260	461219.27	2867951.62	897.56	BOC
11261	461222.00	2867974.51	897.58	BOC
11262	461224.48	2867995.41	897.32	BOC
11263	461224.69	2868002.96	897.14	BOC
11264	461225.44	2868011.83	896.92	BOC
11265	461225.53	2868016.81	896.90	BOC
11266	461201.47	2867862.22	896.95	BOC
11267	461215.35	2867876.40	896.86	BOC
11268	461195.02	2867860.26	897.23	BOC
11269	461171.05	2867869.04	897.50	EOSW
11270	461179.99	2867868.67	897.47	EOSW
11271	461189.69	2867867.89	897.37	EOSW
11272	461189.60	2867865.89	897.34	EOSW
11273	461199.03	2867867.69	897.14	EOSW
11274	461198.21	2867869.52	897.17	EOSW
11275	461207.98	2867879.50	897.19	EOSW
11276	461209.82	2867878.72	897.16	EOSW
11277	461171.42	2867878.04	897.64	EOSW
11278	461173.70	2867877.94	897.64	EOSW
11279	461190.07	2867877.27	897.47	EOSW
11280	461198.52	2867876.92	897.28	EOSW
11281	461201.69	2867876.79	897.28	EOSW
11282	461201.77	2867879.67	897.28	EOSW
11283	461201.96	2867886.55	897.78	EOSW
11284	461211.45	2867886.01	897.67	EOSW
11285	461215.45	2867885.84	897.45	EOSW
11286	461213.85	2867900.37	897.89	EOSW
11287	461212.41	2867902.60	897.94	EOSW
11288	461202.64	2867910.97	898.20	EOSW
11289	461204.61	2867909.87	898.16	EOSW
11290	461204.69	2867912.90	898.15	EOSW
11291	461212.69	2867912.68	898.03	EOSW
11292	461204.99	2867922.89	898.12	EOSW
11293	461212.97	2867922.67	897.83	EOSW
11294	461209.46	2867886.34	897.67	EOSW
11346	461261.77	2867858.32	897.26	BOC
11347	461251.71	2867865.07	897.14	BOC
11348	461245.74	2867875.15	897.02	BOC
11349	461244.42	2867884.29	897.42	BOC
11350	461252.95	2867903.24	897.22	BOC
11351	461254.10	2867945.05	897.47	BOC
11352	461254.24	2867950.04	897.00	BOC
11353	461255.25	2867986.53	896.98	BOC
11354	461255.39	2867991.53	897.44	BOC
11355	461255.69	2868002.08	897.34	BOC
11356	461256.13	2868015.98	897.22	BOC
11357	461259.03	2867859.54	897.51	BOC
11358	461253.88	2867863.00	897.43	BOC
11359	461266.72	2867986.21	898.05	EOSW
11360	461272.71	2867986.04	898.14	EOSW
11361	461272.28	2867970.25	898.17	EOSW
11362	461274.28	2867970.19	898.19	EOSW
11363	461271.72	2867949.60	898.03	EOSW
11364	461273.72	2867949.55	898.06	EOSW
11365	461265.72	2867949.72	897.89	EOSW
11366	461264.63	2867909.67	898.39	EOSW
11367	461270.65	2867910.53	898.47	EOSW
11368	461264.39	2867901.20	898.49	EOSW
11369	461270.43	2867902.51	898.56	EOSW
11370	461270.22	2867894.74	898.65	EOSW
11371	461272.22	2867894.69	898.68	EOSW
11372	461277.21	2867894.53	898.88	EOSW
11373	461277.04	2867888.10	898.68	EOSW
11374	461275.77	2867888.13	898.65	EOSW
11375	461272.04	2867888.21	898.56	EOSW
11376	461264.22	2867894.91	898.56	EOSW
11377	461264.05	2867888.43	898.43	EOSW
11378	461261.29	2867899.62	898.38	EOSW
11379	461260.23	2867901.32	898.17	EOSW

2nd Ave E Cont.				
Point #	Northing	Easting	Elevation	Description
11380	461258.10	2867904.70	897.77	EOSW
11381	461246.43	2867884.56	897.51	EOSW
11382	461250.42	2867884.40	897.69	EOSW
11383	461252.42	2867884.32	897.78	EOSW
11384	461251.45	2867877.01	897.52	EOSW
11385	461253.35	2867877.63	897.55	EOSW
11386	461263.74	2867877.35	897.71	EOSW
11387	461262.60	2867864.47	897.61	EOSW
11388	461263.44	2867866.29	897.64	EOSW
11389	461271.74	2867877.13	897.83	EOSW
11390	461271.65	2867873.90	897.83	EOSW
11391	461271.51	2867862.54	897.66	EOSW
11392	461271.50	2867864.54	897.69	EOSW
11393	461279.50	2867866.35	897.88	EOSW
11394	461280.35	2867864.54	897.85	EOSW
11395	461279.80	2867873.57	897.98	EOSW
11396	461282.17	2867873.47	898.03	EOSW
11397	461287.38	2867873.26	898.14	EOSW
11398	461289.66	2867873.16	898.15	EOSW
11399	461290.62	2867864.12	898.02	EOSW
11400	461275.87	2867878.42	897.90	EOSW
11401	461275.57	2867880.65	898.07	EOSW
11407	461230.92	2867884.66	897.12	CL
11408	461231.48	2867904.85	897.09	CL
11409	461232.75	2867950.64	897.37	CL
11410	461235.40	2867972.91	897.51	CL
11411	461240.58	2868016.41	896.94	CL
11412	461241.18	2868038.35	896.66	CL
11420	461202.38	2867901.67	898.08	EOSW

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Sheyenne Street

ADA & Street Grading Points

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	25

1st Ave				
Point #	Northing	Easting	Elevation	Description
11422	461566.75	2867845.40	898.30	BOC
11423	461585.26	2867861.17	898.45	BOC
11424	461587.89	2867890.04	898.84	BOC
11425	461593.17	2867954.88	898.30	BOC
11426	461593.95	2867964.86	898.22	BOC
11427	461587.37	2867870.90	899.01	BOC
11428	461580.06	2867853.15	898.39	BOC
11429	461577.88	2867851.08	898.62	BOC
11430	461575.50	2867849.27	898.36	BOC
11431	461572.14	2867854.24	898.64	EOSW
11432	461571.68	2867864.44	898.80	EOSW
11433	461575.68	2867857.26	898.67	EOSW
11434	461565.34	2867851.23	898.60	EOSW
11435	461555.33	2867851.25	898.86	EOSW
11436	461555.81	2867853.20	898.89	EOSW
11437	461541.33	2867862.80	898.96	EOSW
11438	461543.61	2867862.71	898.97	EOSW
11439	461556.18	2867862.19	899.03	EOSW
11440	461565.77	2867861.79	898.76	EOSW
11441	461571.60	2867861.55	898.76	EOSW
11442	461571.87	2867871.32	899.25	EOSW
11443	461572.25	2867885.00	899.46	EOSW
11444	461577.89	2867864.27	898.68	EOSW
11445	461579.73	2867863.49	898.68	EOSW
11446	461583.72	2867885.20	899.29	EOSW
11447	461578.45	2867891.70	899.32	EOSW
11448	461574.51	2867894.64	899.34	EOSW
11449	461572.54	2867895.74	899.35	EOSW
11450	461572.36	2867889.00	899.46	EOSW
11451	461564.58	2867885.21	899.80	EOSW
11452	461564.69	2867889.21	899.81	EOSW
11453	461576.50	2867955.86	898.41	EOSW
11454	461580.51	2867955.75	898.35	EOSW
11455	461565.42	2867853.32	898.63	EOSW
11456	461579.37	2867871.12	899.14	EOSW
11457	461581.36	2867870.78	899.11	EOSW
11458	461622.85	2867888.00	898.67	BOC
11459	461624.76	2867957.98	897.81	BOC
11460	461624.63	2867964.02	898.29	BOC
11461	461622.98	2867892.80	898.14	BOC
11462	461623.47	2867910.79	898.02	BOC
11463	461624.44	2867945.98	897.86	BOC
11464	461638.69	2867841.43	898.71	BOC
11465	461628.98	2867844.29	898.66	BOC
11466	461621.62	2867849.84	898.62	BOC
11467	461615.65	2867859.92	898.56	BOC
11468	461614.38	2867870.14	899.01	BOC
11469	461623.61	2867915.79	898.48	BOC
11470	461626.39	2867845.81	898.90	BOC
11471	461623.79	2867847.77	898.88	BOC
11472	461639.27	2867847.41	899.21	EOSW
11473	461639.47	2867849.40	899.24	EOSW
11474	461631.72	2867849.63	899.16	EOSW
11475	461632.63	2867851.41	899.19	EOSW
11476	461625.99	2867853.95	899.12	EOSW
11477	461627.45	2867855.31	899.15	EOSW
11478	461621.36	2867861.78	899.06	EOSW
11479	461623.26	2867862.40	899.09	EOSW
11480	461616.34	2867869.33	899.04	EOSW
11481	461620.33	2867869.17	898.97	EOSW
11482	461624.22	2867886.54	898.70	EOSW
11483	461626.95	2867883.63	898.76	EOSW
11484	461628.32	2867882.17	898.79	EOSW
11485	461636.47	2867892.43	899.83	EOSW
11486	461636.32	2867886.64	898.91	EOSW
11487	461642.34	2867887.28	898.99	EOSW
11488	461642.47	2867892.27	898.92	EOSW
11489	461636.97	2867910.43	898.57	EOSW
11490	461640.97	2867910.32	898.63	EOSW
11491	461642.97	2867910.32	898.63	EOSW
11492	461637.93	2867945.61	898.24	EOSW

1st Ave Cont.				
Point #	Northing	Easting	Elevation	Description
11493	461641.93	2867945.50	898.30	EOSW
11494	461642.26	2867957.50	898.24	EOSW
11495	461638.26	2867957.61	898.18	EOSW
11496	461635.64	2867862.06	899.27	EOSW
11497	461641.64	2867861.90	899.36	EOSW
11498	461641.55	2867858.67	899.41	EOSW
11499	461641.17	2867849.31	899.27	EOSW
11500	461641.08	2867847.31	899.24	EOSW
11501	461649.24	2867851.04	899.46	EOSW
11502	461650.08	2867849.22	899.43	EOSW
11503	461657.29	2867858.03	899.67	EOSW
11504	461659.57	2867857.93	899.69	EOSW
11505	461659.20	2867848.89	899.56	EOSW
11506	461657.99	2867848.94	899.55	EOSW
11507	461641.51	2867930.31	898.46	EOSW
11508	461641.58	2867932.63	898.46	EOSW
11509	461637.51	2867930.42	898.40	EOSW
11510	461637.58	2867932.74	898.40	EOSW
11511	461600.86	2867870.53	898.82	CL
11512	461601.38	2867889.61	898.65	CL
11513	461609.16	2867954.42	898.29	CL
11514	461609.43	2867964.41	898.24	CL

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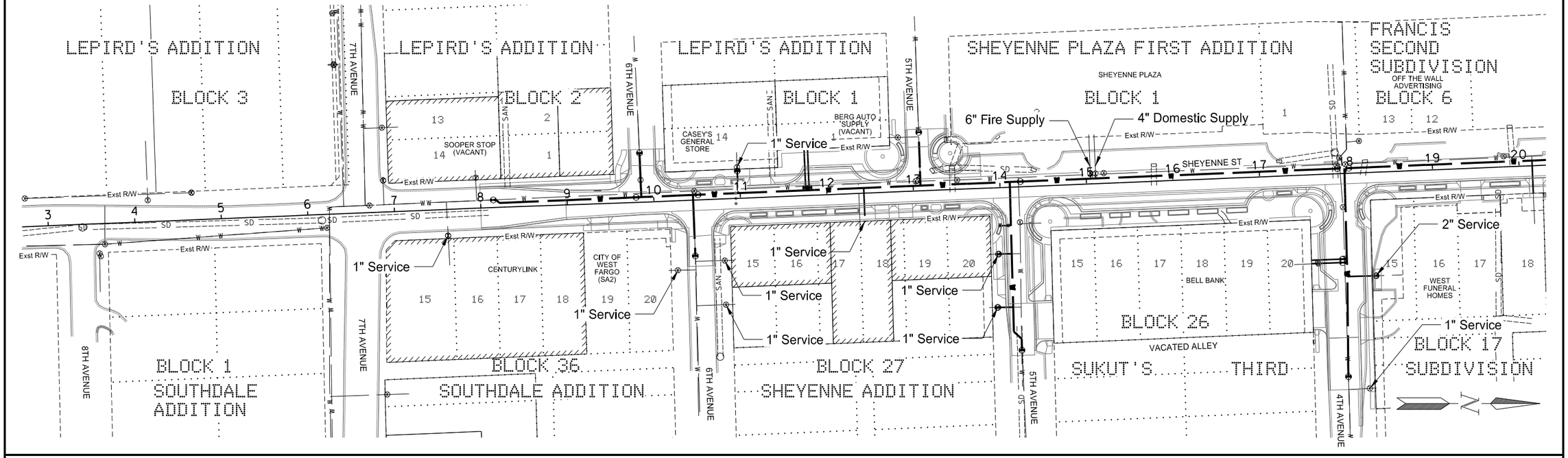
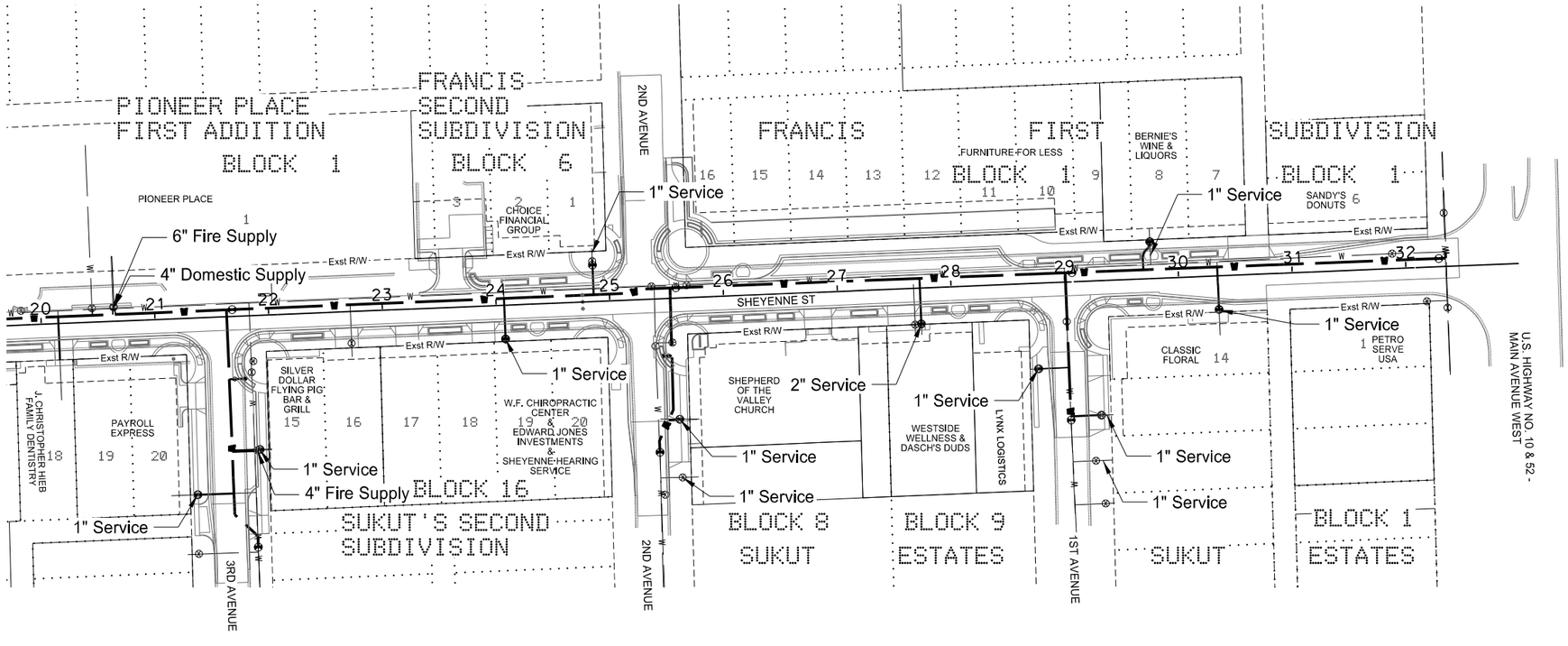
Sheyenne Street

ADA & Street Grading Points

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	26





Note:
Sheyenne street watermain separation from existing ACP watermain to new watermain is minimal and could be less than 4'.

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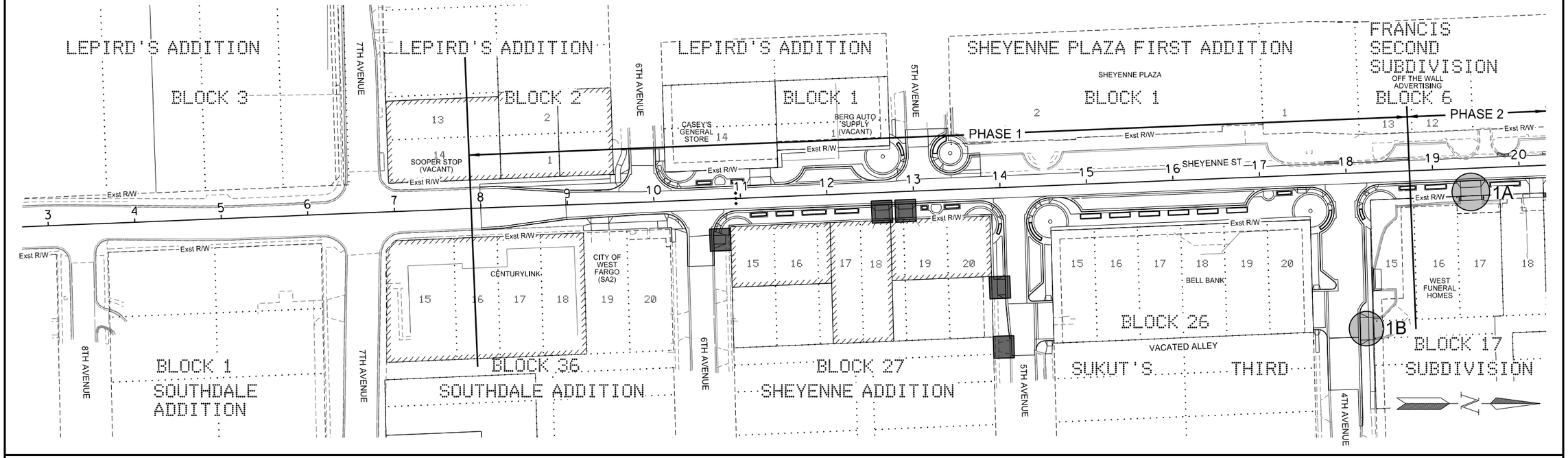
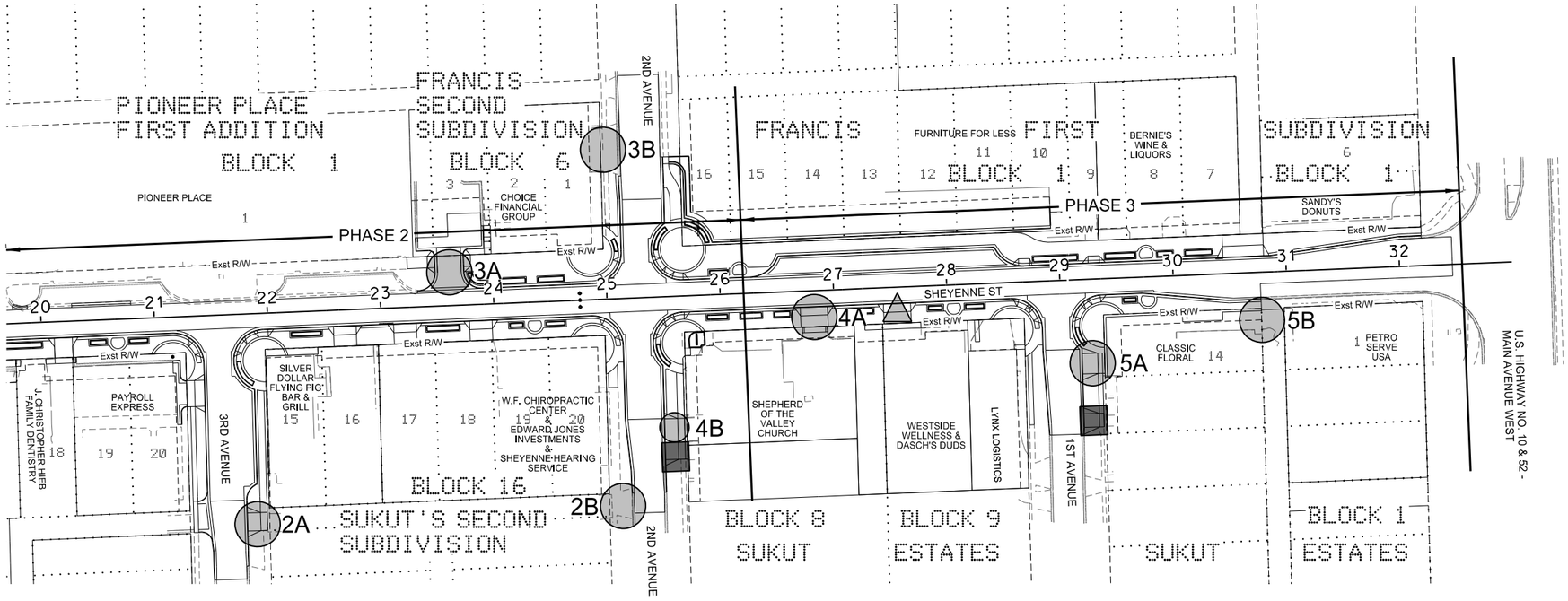
Sheyenne Street

General Details
Temporary Water Layout

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	27





LEGEND

- RESIDENTIAL DRIVEWAY - MAINTAIN ACCESS AT ALL TIMES
- #A — COMMERCIAL DRIVEWAY TYPE 1 - MAINTAIN EITHER ACCESS A OR B AT ALL TIMES
- COMMERCIAL DRIVEWAY TYPE 2 - CONSTRUCT ACCESS IN PHASES MAINTAIN TRAFFIC AT ALL TIMES

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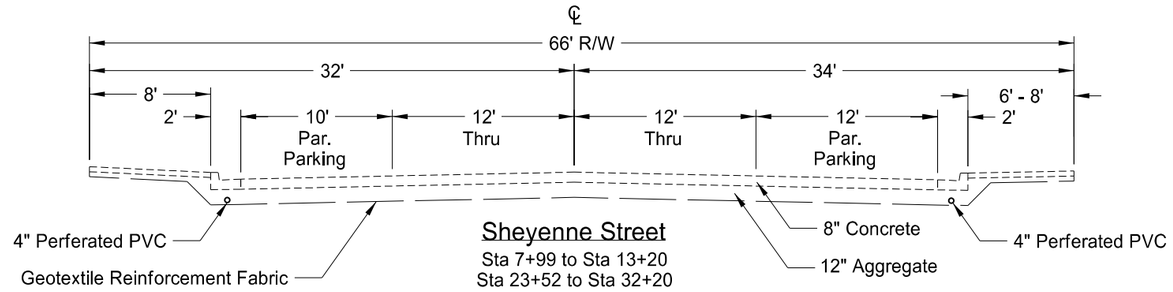
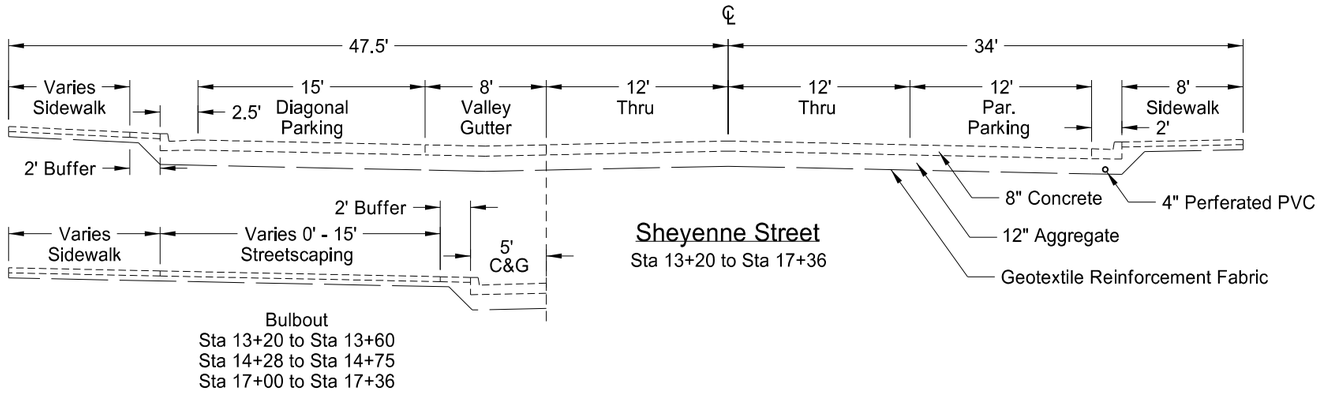
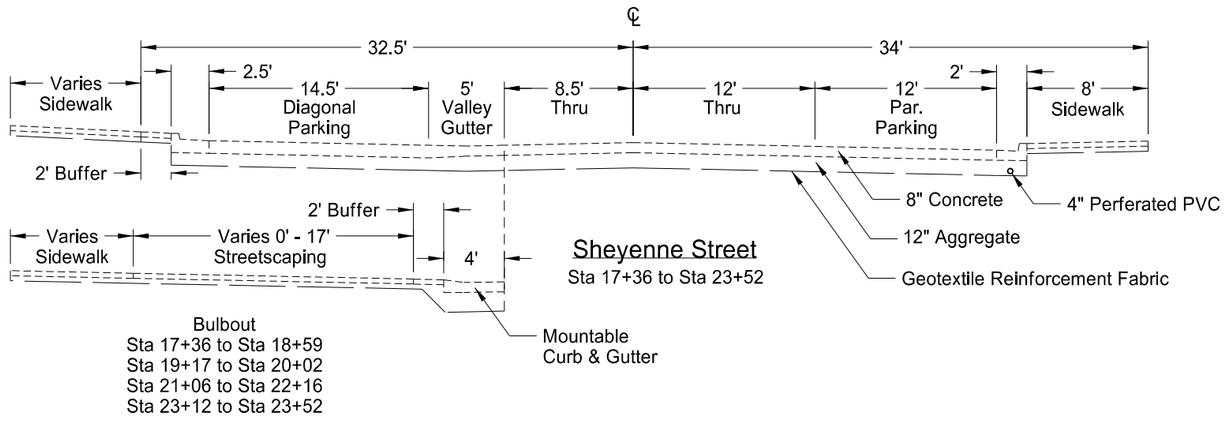
Sheyenne Street

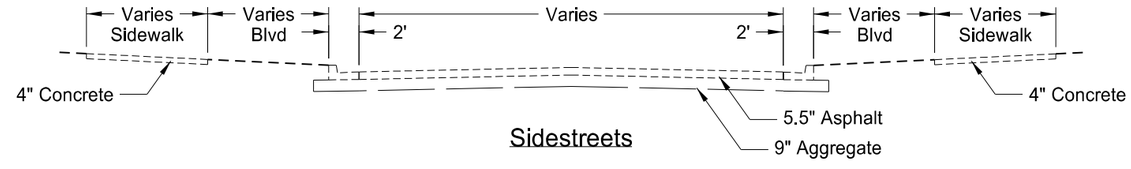
General Details
Access Layout

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	1









	Sidewalk Left	Boulevard Left	Roadway	Boulevard Right	Sidewalk Right
1st E	4'	13.5'	27'	13.5'	4'
2nd W	17'	0'	26.5	10'	8'
2nd E	4'	0'	35'	8.5	4'
3rd E	4'	17'*	35'	8.5	4'
4th E	8'	0'	27'	12'	4'
5th W	6'	20'**	42'	8.5'	4'
5th E	4'	13'	24'	10.5'	4'
6th E	4'	13.5'	27'	13'	4'
6th W	8'	0'	26.5'	0'	8'

* Asphalt Diagonal Parking with 4' Valley Gutter

** Concrete Diagonal Parking

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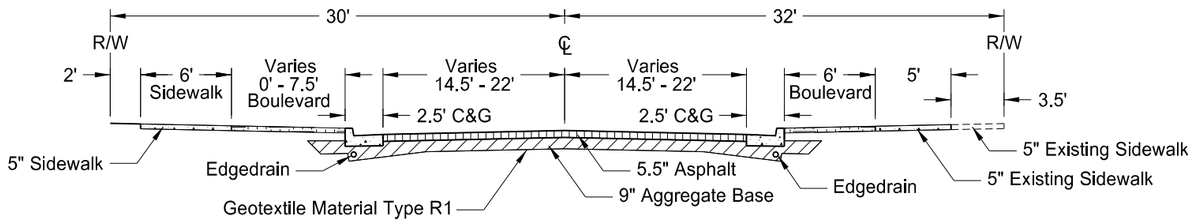
Sheyenne Street

Typical Sections

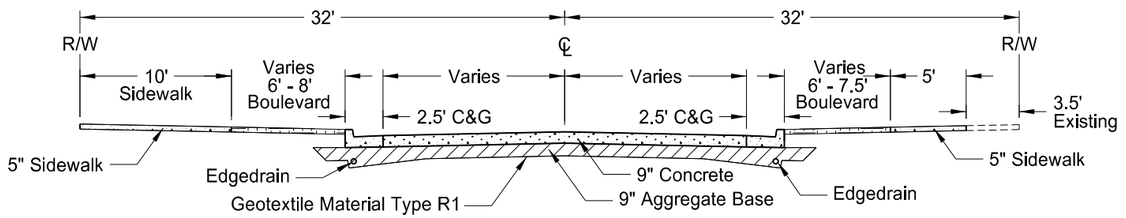
Existing

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	2



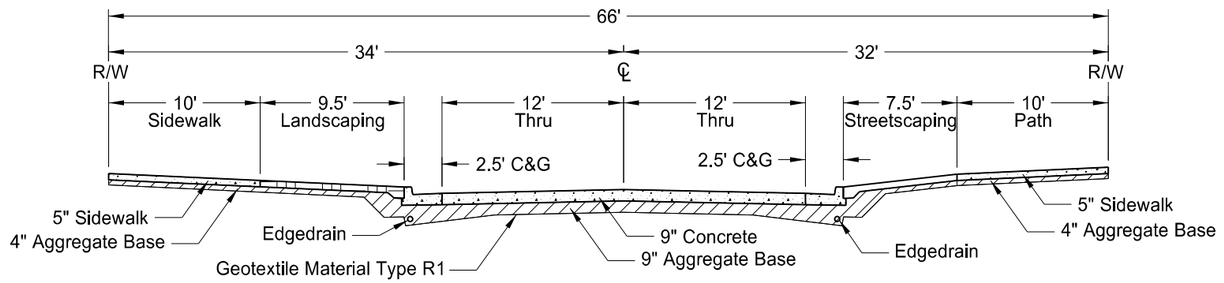
Sheyenne Street-Asphalt Transition

Sta 7+99 to Sta 8+98



Sheyenne Street

Sta 8+98 to Sta 9+87



Sheyenne Street-Bulbout

Sta 9+87 to Sta 11+50

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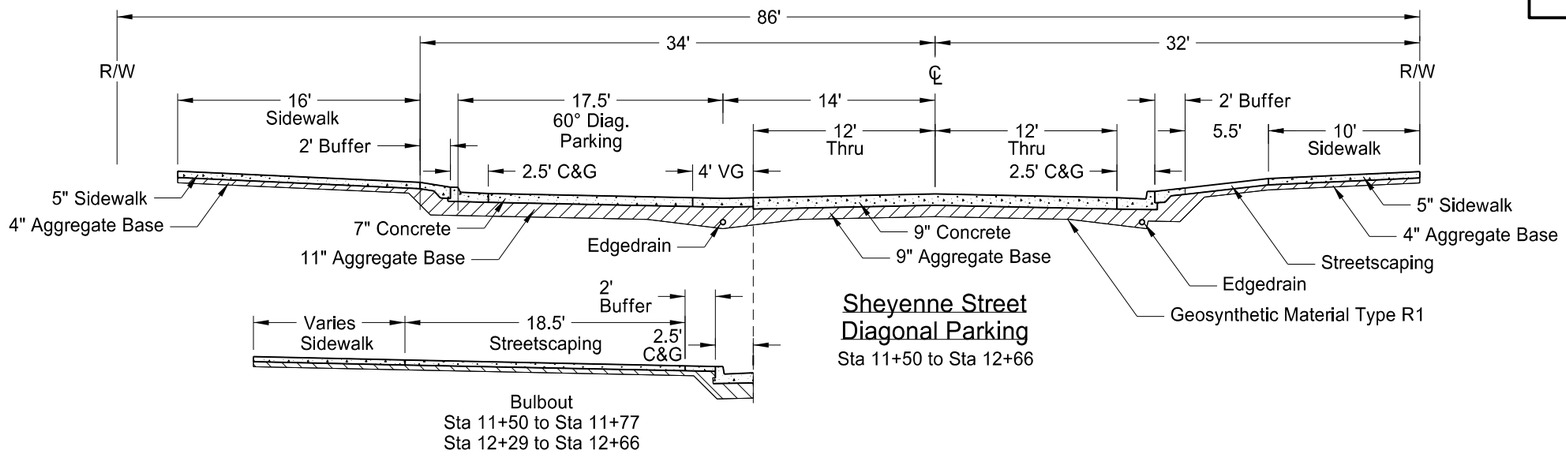
Sheyenne Street

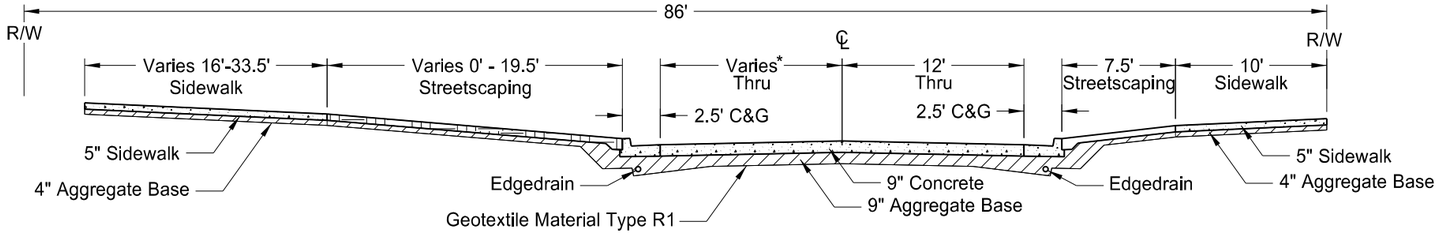
Typical Sections

Proposed

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	3

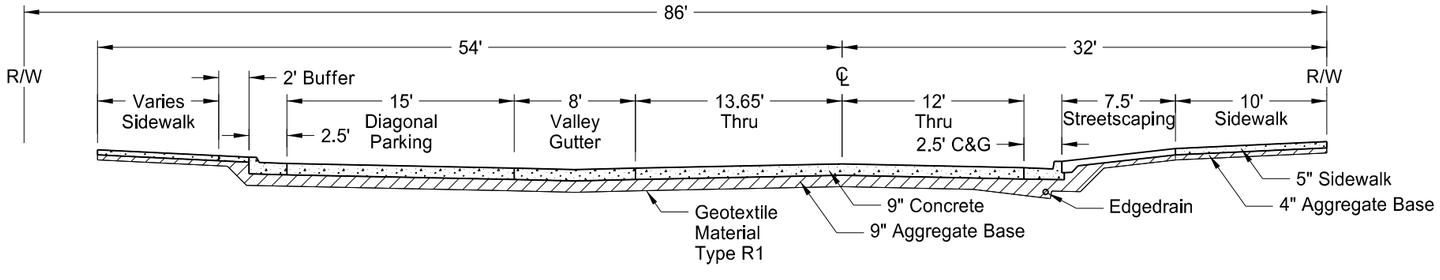


Sheyenne Street
Diagonal Parking
Sta 11+50 to Sta 12+66



Varies*
Sta 12+66 to Sta 13+08
12' - 13.65'
Sta 13+08 to Sta 13+68
13.65'

Sheyenne Street
Sta 12+66 to Sta 13+68



Sheyenne Street-Diagonal Parking
Sta 13+68 to Sta 13+78

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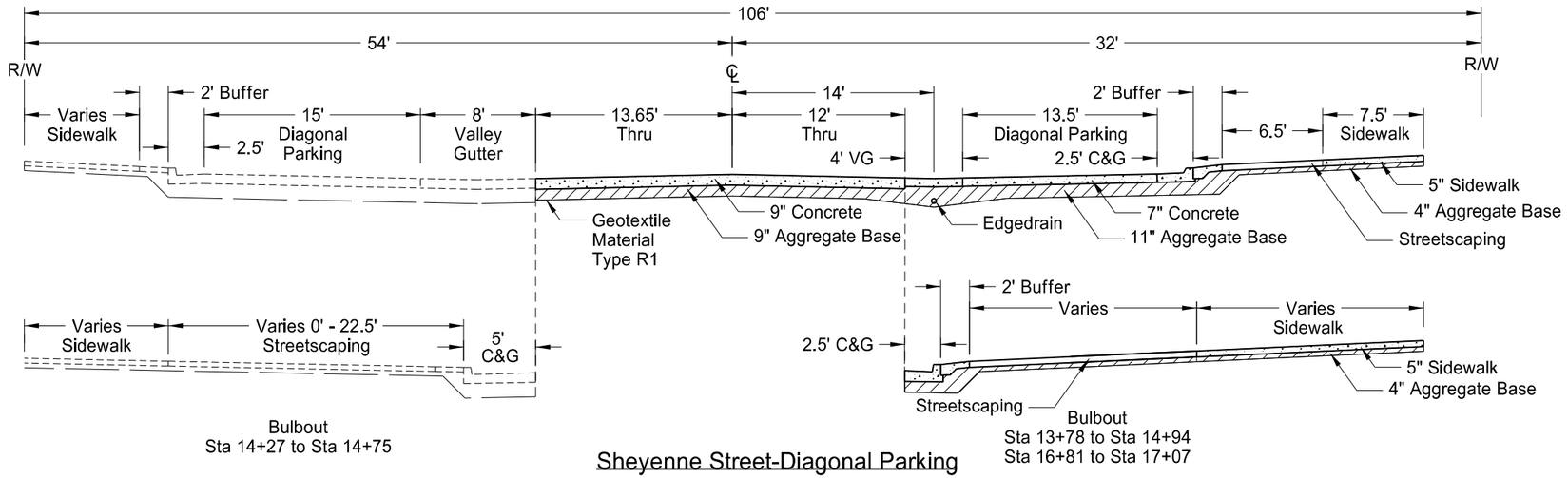
Sheyenne Street

Typical Sections

Proposed

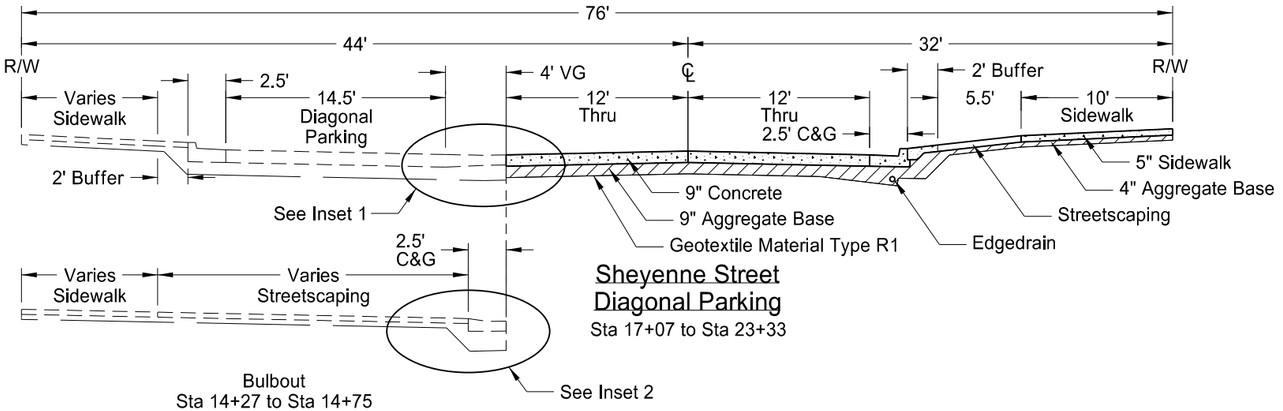
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	4

Sheyenne Plaza



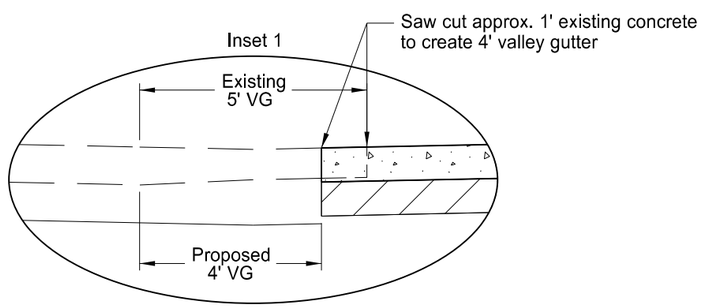
Sheyenne Street-Diagonal Parking

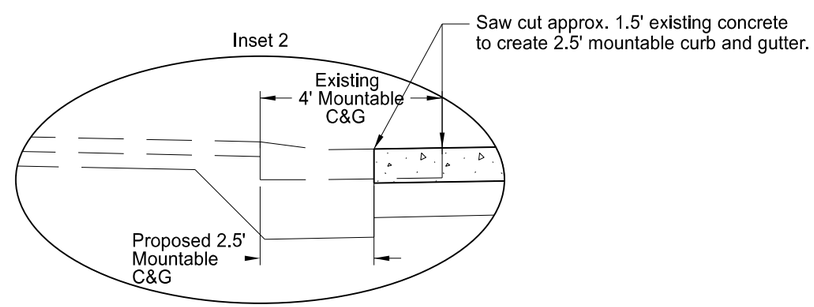
Sta 13+78 to Sta 17+07



Sheyenne Street Diagonal Parking

Sta 17+07 to Sta 23+33





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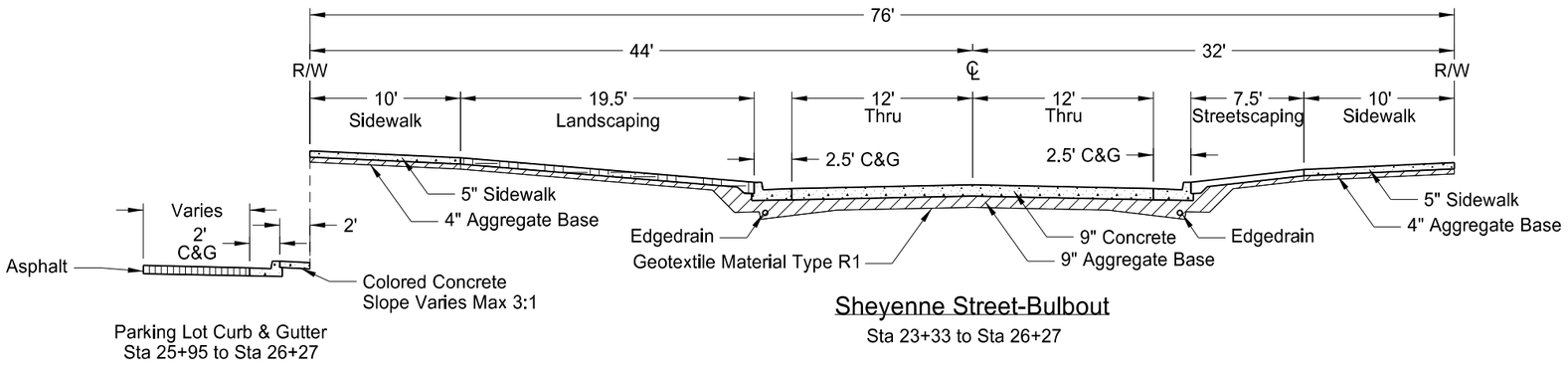
Sheyenne Street

Typical Sections

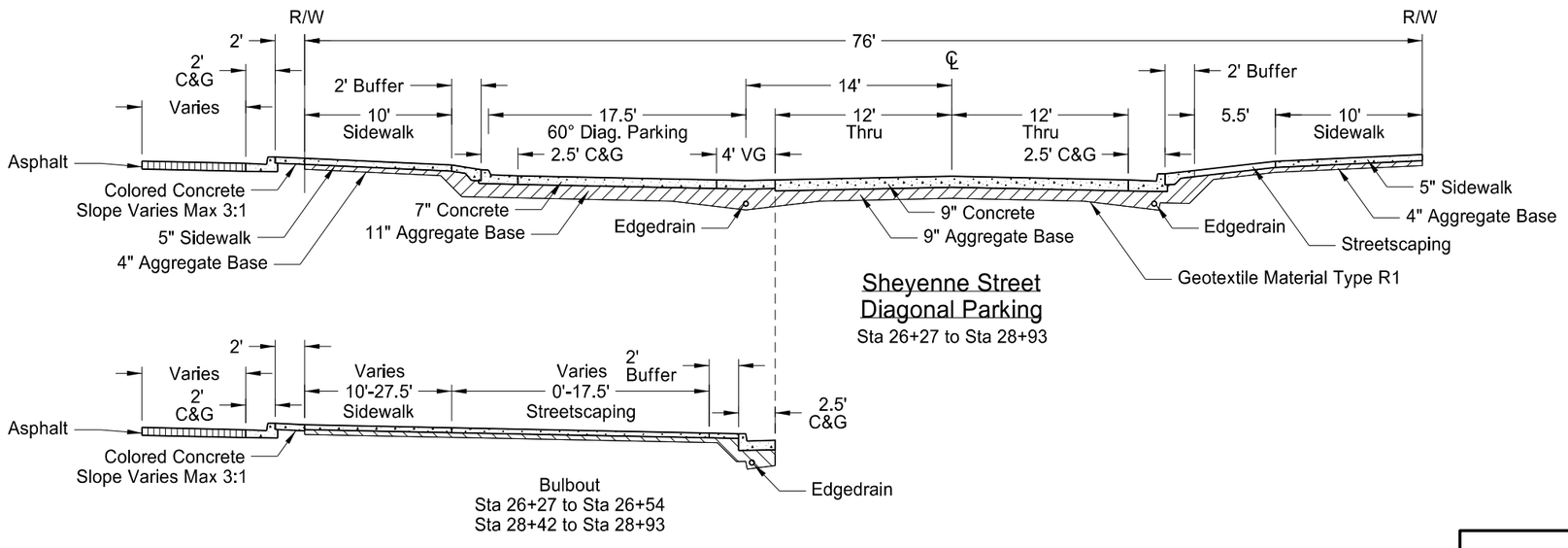
Proposed

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	5



Parking Lot Curb & Gutter
Sta 25+95 to Sta 26+27

Sheyenne Street-Bulbout
Sta 23+33 to Sta 26+27



Sheyenne Street
Diagonal Parking
Sta 26+27 to Sta 28+93

Bulbout
Sta 26+27 to Sta 26+54
Sta 28+42 to Sta 28+93

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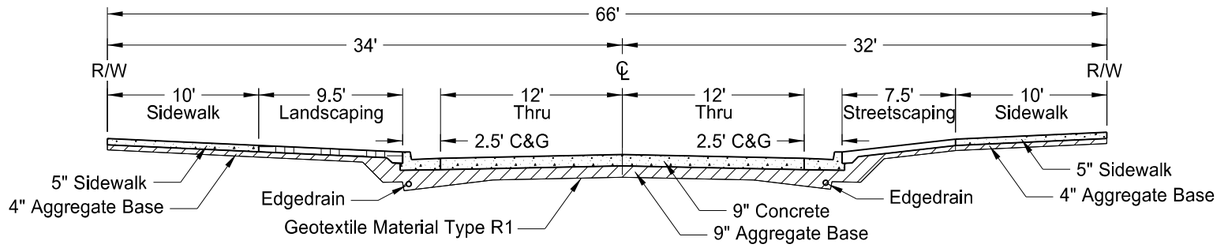
Sheyenne Street

Typical Sections

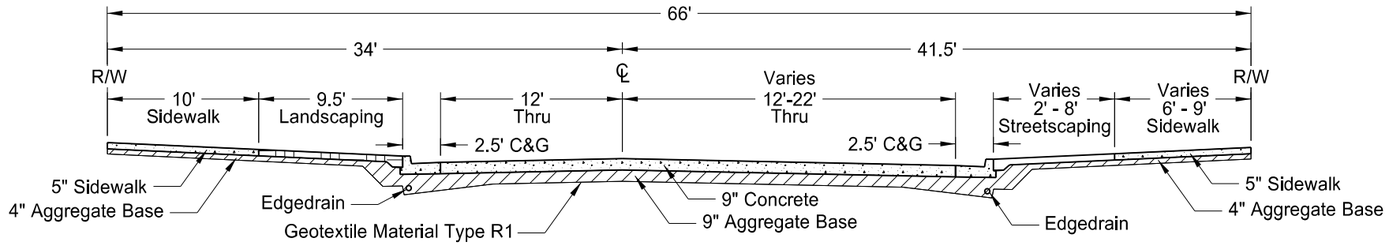
Proposed

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	6



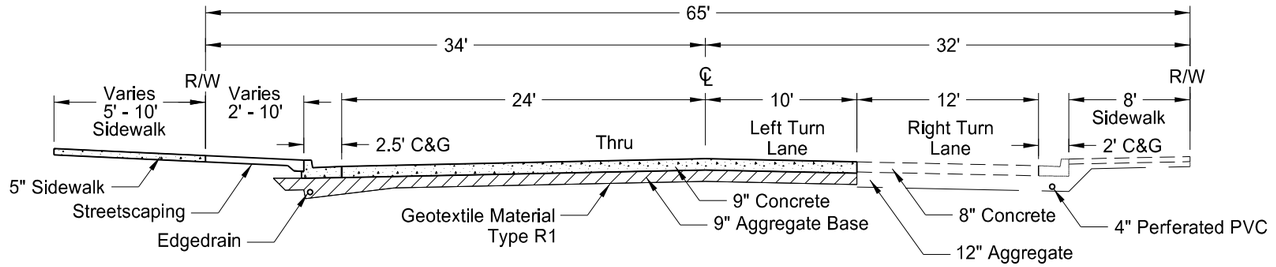
Sheyenne Street

Sta 28+69 to Sta 29+72



Sheyenne Street

Sta 29+72 to Sta 30+77



Sheyenne Street

Sta 30+77 to Sta 32+47

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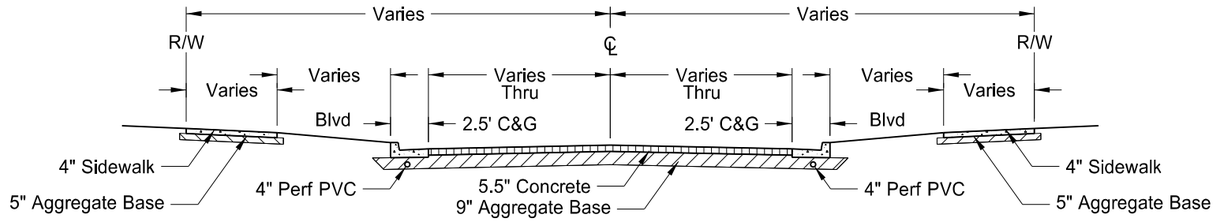
Sheyenne Street

Typical Sections

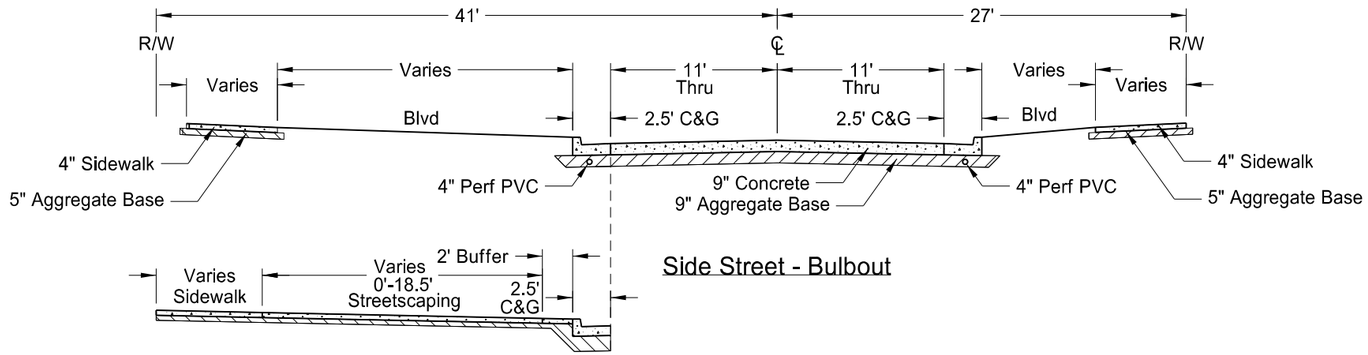
Proposed

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	7

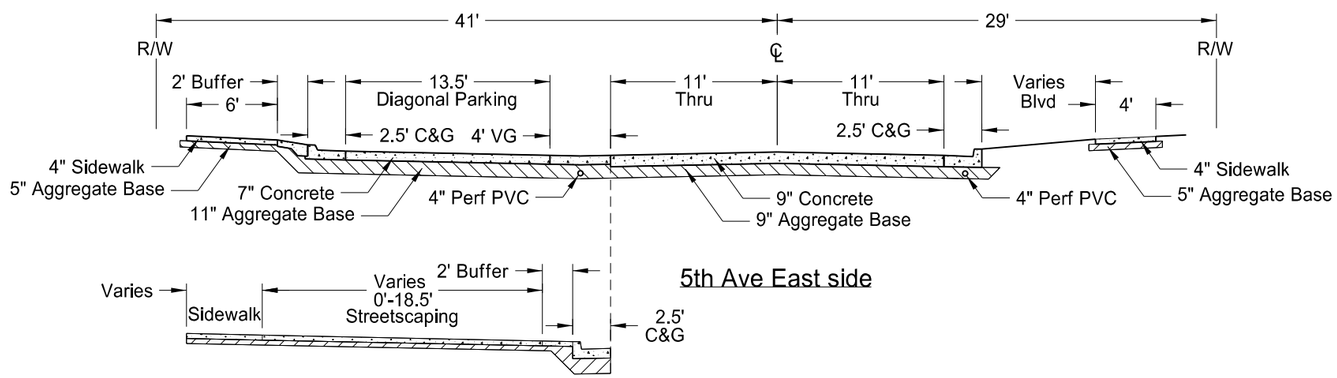


Side Street - Asphalt

	Sidewalk Left	Boulevard Left	Roadway	Boulevard Right	Sidewalk Right
1st E	4'	13.5'	26.5'-30'	9.5'-13'	4'
2nd W	5'-10'	0'-5'	34.5'-36'	9'	4'
2nd E	6'	11'	26.5-30'	5.5'-9'	8'
6th E	4'	14'	26'-27'	13'	4'
6th W	10'	0'	26'	2'-10'	6'



Side Street - Bulbout



5th Ave East side

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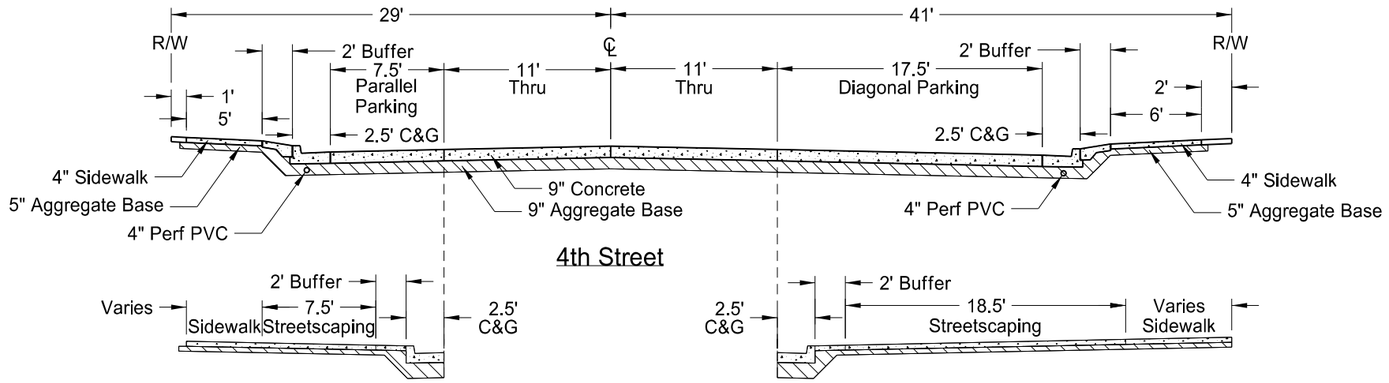
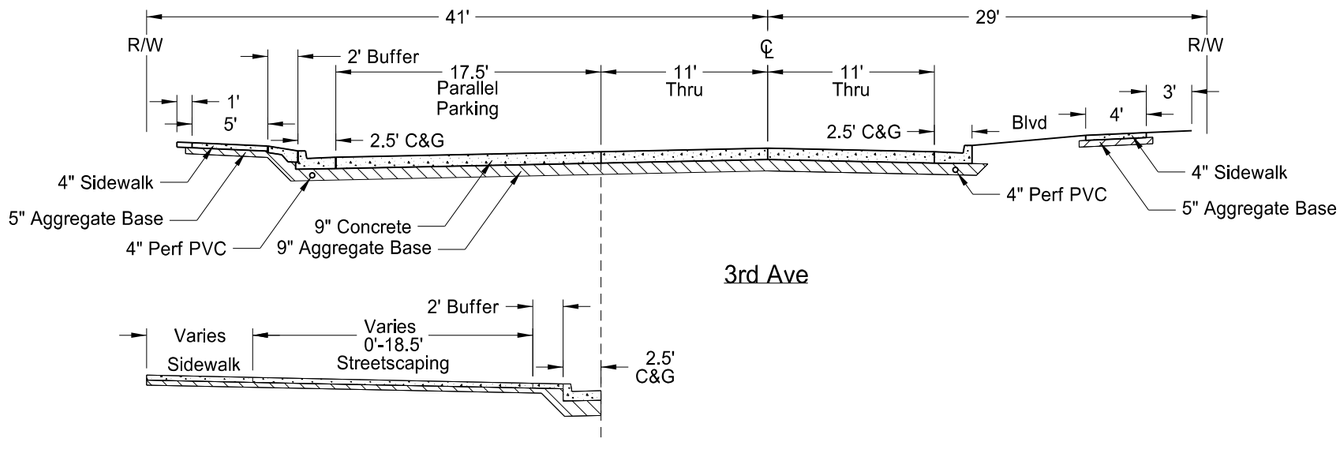
Sheyenne Street

Typical Sections

Proposed

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	30	8





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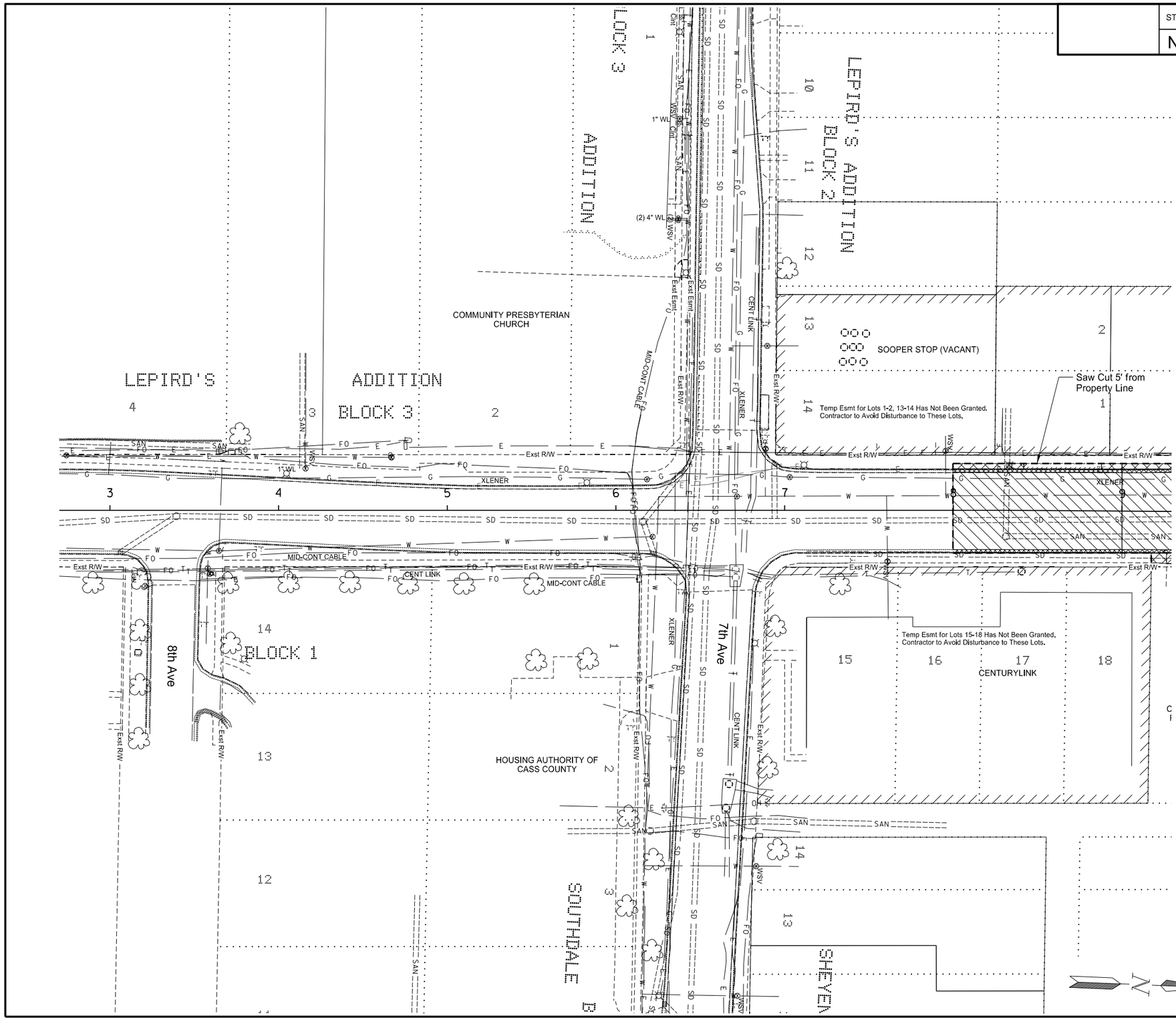
Sheyenne Street

Typical Sections

Proposed

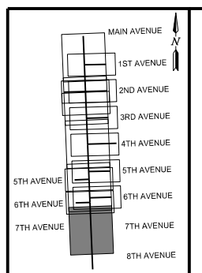
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	1

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 8+00 to 9+00	510	SY
		Sidewalks	19	SY
		Driveways	17	SY
202	0130	REMOVAL OF CURB & GUTTER		
		Sta 8+00 to 9+00 Lt	100	LF
		Sta 8+00 to 9+00 Rt	100	LF



LEGEND

- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE ROADWAY
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF CONCRETE DRIVEWAY
- REMOVAL OF CURB & GUTTER
- REMOVAL OF LANDSCAPING MATERIAL
- REMOVAL OF TREE/SHRUB
- PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

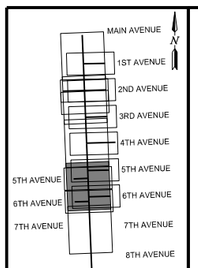
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	2

SPEC CODE	BID ITEM	QTY UNIT
202 0114	REMOVAL OF CONCRETE PAVEMENT	
	Sta 9+00 to 15+00	3259 SY
	Sidewalks Sta 9+00 to 15+00	711 SY
	Driveways Sta 9+00 to 15+00	69 SY
	Driveways-6th Ave W Side (City Funded	23 SY
	Sidewalks-6th Ave W Side (City Funded	16 SY
	Driveways-6th Ave E Side (City Funded)	19 SY
	Sidewalks-6th Ave E Side (City Funded)	3 SY
	Driveways-5th Ave W Side (City Funded	33 SY
	Sidewalks-5th Ave W Side (City Funded	100 SY
	Driveways-5th Ave E Side (City Funded)	133 SY
	Sidewalks-5th Ave E Side (City Funded)	77 SY
202 0130	REMOVAL OF CURB & GUTTER	
	Sta 9+00 to 15+00 Lt	480 LF
	Sta 9+00 to 15+00 Rt	581 LF
	6th Ave W Side (City Funded)	37 LF
	6th Ave E Side (City Funded)	70 LF
	5th Ave W Side (City Funded)	74 LF
	5th Ave E Side (City Funded)	282 LF
202 0132	REMOVAL OF BITUMINOUS SURFACING	
	6th Ave W Side (City Funded)	62 SY
	6th Ave E Side (City Funded)	106 SY
	5th Ave W Side (City Funded)	72 SY
	5th Ave E Side (City Funded)	447 SY

LEPIRD'S ADDITION
BLOCK 1
SHEYENNE PLAZA
FIRST ADDITION
BLOCK 1
CASEY'S GENERAL STORE
BERG AUTO SUPPLY (VACANT)
CITY OF WEST FARGO (SA2)
SHEYENNE ADDITION
BLOCK 27
6th Ave
5th Ave
Exst R/W
Temp Esmt
Saw Cut 5' from Property Line
City Funded
End Project UGP-8-992(041)
Protect Light Pole
Protect Trees & Shrub
Remove & Reset
Landscaping Block
Protect Trees
Protect Tree
Protect Landscaping
Remove up to back of walk
Protect driveway
Temp Esmt for Lots 15-20 Has Not Been Granted.
Contractor to Avoid Disturbance to These Lots.
BLESSED SACRAM

LEGEND

- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE ROADWAY
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF CONCRETE DRIVEWAY
- REMOVAL OF CURB & GUTTER
- REMOVAL OF LANDSCAPING MATERIAL
- REMOVAL OF TREE/SHRUB
- PAVEMENT REMOVAL LIMITS



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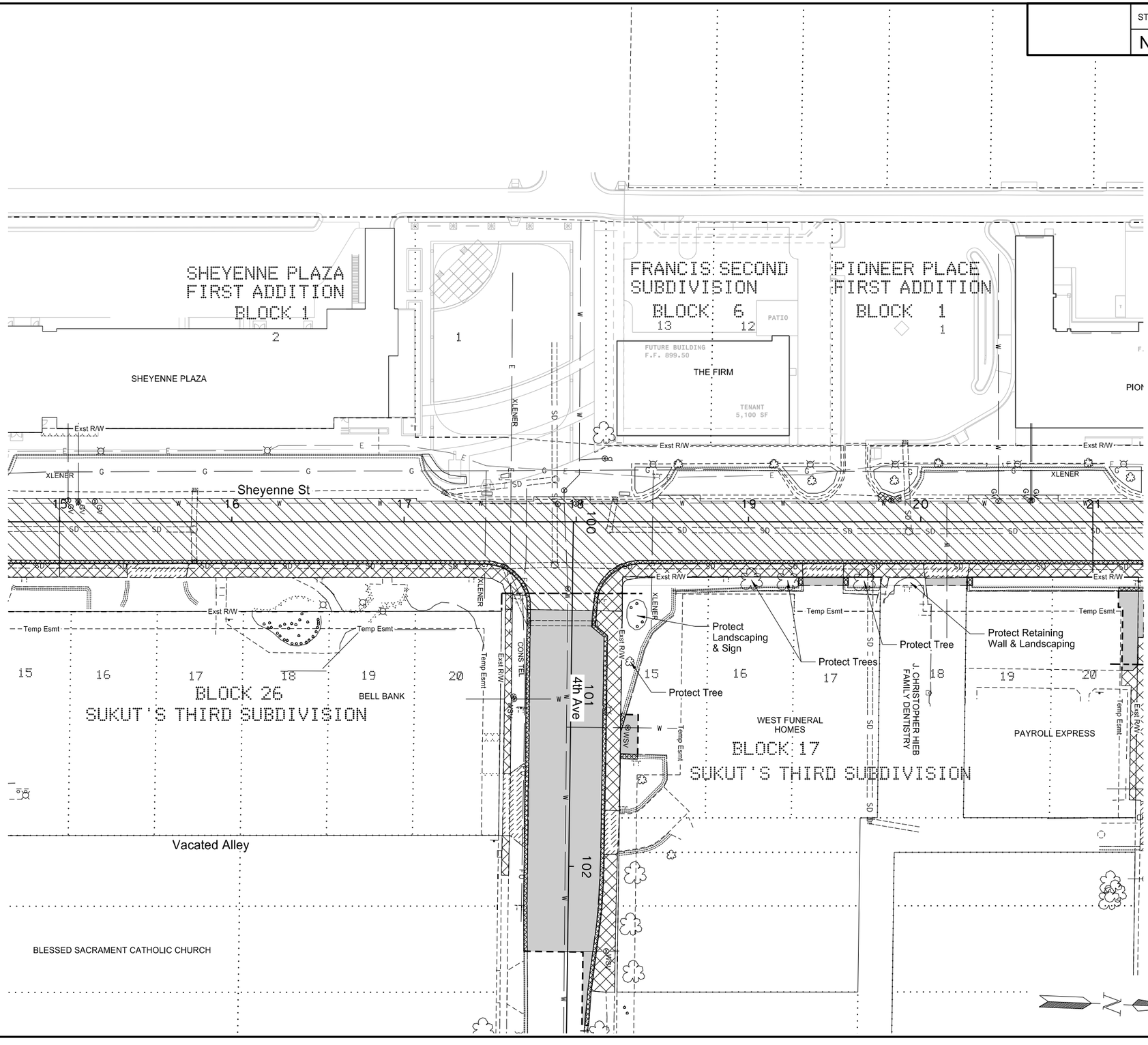
Sheyenne Street

Removals

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

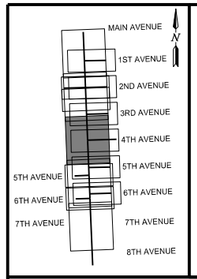
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	40	3

SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 15+00 to 21+00	2521	SY
		Sidewalks Sta 15+00 to 21+00	441	SY
		Driveways Sta 15+00 to 21+00	75	SY
		Driveways 4th Ave	79	SY
		Sidewalks 4th Ave	254	SY
202	0130	REMOVAL OF CURB & GUTTER		
		Sta 15+00 to 21+00 Rt	593	LF
		4th Ave W	442	LF
		West Funeral Home Parking Lot	33	LF
		Hieb Dentistry Parking Lot	8	LF
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		4th Ave W	939	SY
		West Funeral Home Parking Lot	36	SY
		Hieb Dentistry Parking Lot	12	SY



LEGEND

- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE ROADWAY
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF CONCRETE DRIVEWAY
- REMOVAL OF CURB & GUTTER
- REMOVAL OF LANDSCAPING MATERIAL
- REMOVAL OF TREE/SHRUB
- PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

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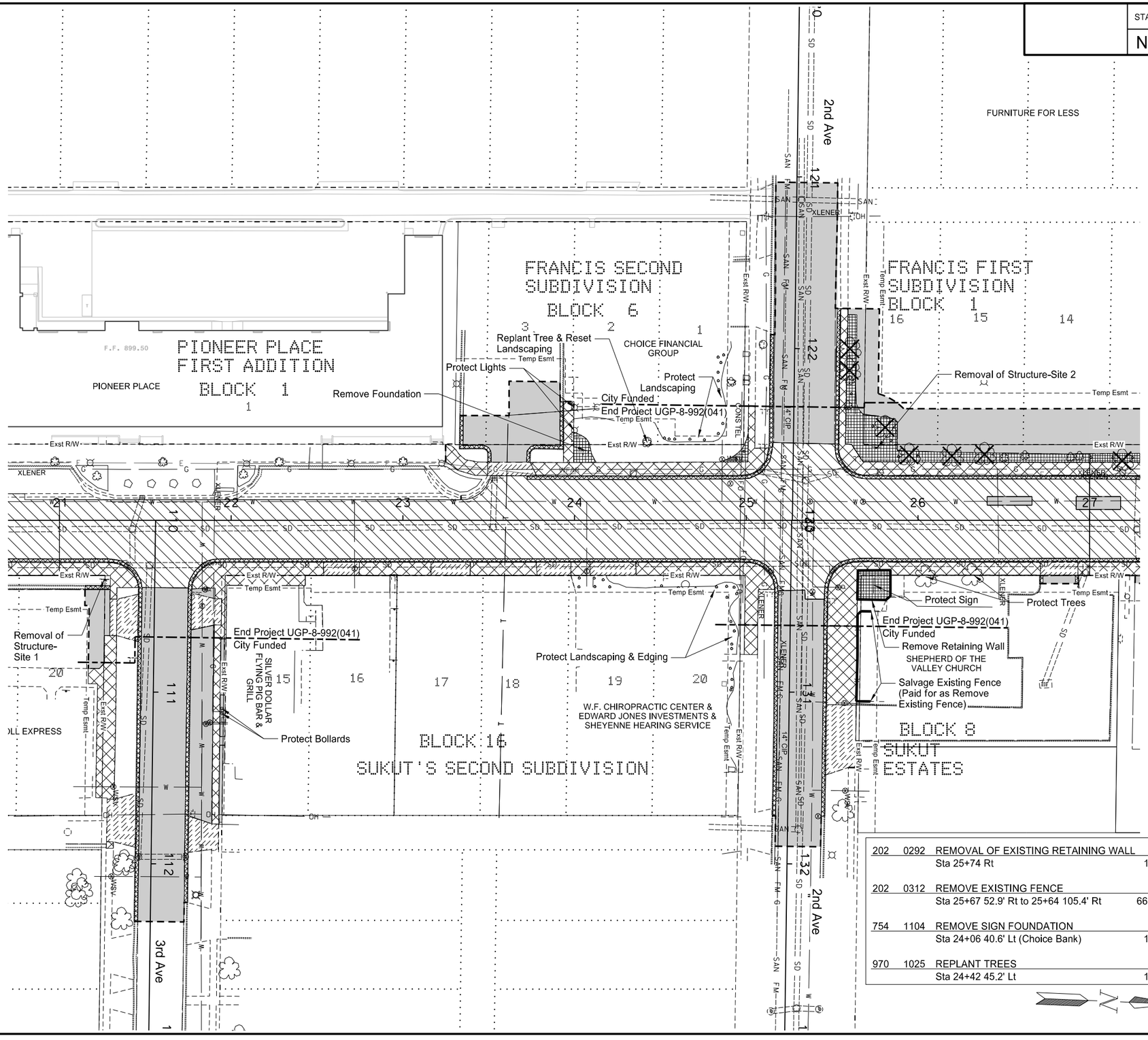
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	4

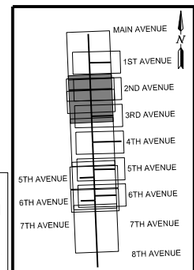


SPEC	CODE	BID ITEM	QTY	UNIT
201	0370	REMOVAL OF TREES 10IN		
		Sta 21+00 to 27+00 Lt	6	EA
202	0108	REMOVAL OF STRUCTURE-SITE 1		
		Sta 21+26 34.2' Rt (Payroll Express)	1	LSUM
202	0109	REMOVAL OF STRUCTURE-SITE 2		
		Sta 25+75 42.2' Lt (Furniture for Less)	1	LSUM
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 21+00 to 27+00	2991	SY
		Driveways Sta 21+00 to 27+00	199	SY
		Sidewalks Sta 21+00 to 27+00	804	SY
		Driveways 3rd Ave (City Funded)	84	SY
		Sidewalks 3rd Ave (City Funded)	53	SY
		Sidewalks 2nd Ave W Side (City Funded	65	SY
		Driveways 2nd Ave E Side (City Funded	73	SY
		Sidewalks 2nd Ave E Side (City Funded	103	SY
202	0130	REMOVAL OF CURB & GUTTER		
		Sta 21+00 to 27+00 Lt	357	LF
		Sta 21+00 to 27+00 Rt	674	LF
		3rd Ave (City Funded)	320	LF
		2nd Ave W Side (City Funded)	97	LF
		2nd Ave E Side (City Funded)	222	LF
		Chioce Bank Parking Lot	95	LF
		Shepherd of the Valley Church Parking Lo	10	LF
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		Sta 21+00 to 27+00	264	SY
		3rd Ave (City Funded)	495	SY
		Payroll Express Parking Lot	58	SY
		Silver Dollar Diagonal Parking	192	SY
		Choice Bank Parking Lot	199	SY
		2nd Ave W Side (City Funded)	533	SY
		2nd Ave E Side (City Funded)	382	SY
		Furniture for Less Parking Lot	424	SY
		Shepherd of the Valley Church Parking Lo	10	SY

LEGEND

- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE ROADWAY
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF CONCRETE DRIVEWAY
- REMOVAL OF CURB & GUTTER
- REMOVAL OF LANDSCAPING MATERIAL
- REMOVAL OF TREE/SHRUB
- PAVEMENT REMOVAL LIMITS

SPEC	CODE	BID ITEM	QTY	UNIT
202	0292	REMOVAL OF EXISTING RETAINING WALL		
		Sta 25+74 Rt	1	L SUM
202	0312	REMOVE EXISTING FENCE		
		Sta 25+67 52.9' Rt to 25+64 105.4' Rt	66	LF
754	1104	REMOVE SIGN FOUNDATION		
		Sta 24+06 40.6' Lt (Choice Bank)	1	EA
970	1025	REPLANT TREES		
		Sta 24+42 45.2' Lt	1	EA



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Sheyenne Street

Removals

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	5

SPEC	CODE	BID ITEM	QTY	UNIT
201	0370	REMOVAL OF TREES 10IN		
		Sta 27+00 to 32+47 Lt	6	EA
201	0390	REMOVAL OF TREES 30IN		
		Sta 29+25 60.5' Rt	1	EA
202	0110	REMOVAL OF STRUCTURE-SITE 3		
		Sta 30+37 31.6' Rt (Classic Floral)	1	LSUM
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 27+00 to 32+47	2626	SY
		Driveways Sta 27+00 to 32+47	236	SY
		Sidewalks Sta 27+00 to 32+47	633	SY
		Westside Wellness/Dasch's Duds Parking Lo	6	SY
		Driveways 1st Ave (City Funded)	62	SY
		Sidewalks 1st Ave (City Funded)	45	SY
202	0130	REMOVAL OF CURB & GUTTER		
		Sta 27+00 to 32+47 Lt	520	LF
		Sta 27+00 to 32+47 Rt	408	LF
		1st Ave (City Funded)	150	LF
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		1st Ave	62	SY
		1st Ave (City Funded)	222	SY
		Furniture for Less Parking Lot	698	SY
		Westside Wellness/Dasch's Duds Parking Lo	21	SY
		Classic Floral Parking Lot	79	SY

FOR LESS

FRANCIS FIRST SUBDIVISION
BLOCK 1

FRANCIS FIRST SUBDIVISION
BLOCK 1

14 13 12 11 10 9 8 7 6 5 4

FURNITURE FOR LESS

BERNIE'S WINE & LIQUORS

SANDY'S DONUTS

Temp Esmt

Exst R/W

Protect Landscaping

Protect Inlet

27 28 Sheyenne St 29 140 30 31 32

Protect Landscaping & Sign

End Project UGP-8-992(041)
City Funded

Removal of Structure-Site 3

Protect Landscaping

1st Ave 141

142

WESTSIDE WELLNESS & DASCH'S DUDS

LYNX LOGISTICS

BLOCK 9
SUKUT ESTATES

CLASSIC FLORAL

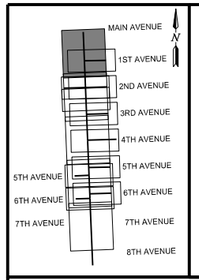
BLOCK 1
SUKUT ESTATES 3

CENEX

U.S. Hwy No. 10 & 52 - Main Ave W

LEGEND

- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE ROADWAY
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF CONCRETE DRIVEWAY
- REMOVAL OF CURB & GUTTER
- REMOVAL OF LANDSCAPING MATERIAL
- REMOVAL OF TREE/SHRUB
- PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	6

SPEC	CODE	BID ITEM	QTY	UNIT
202	0173	REMOVAL OF SEWER PIPE		
		Sta 8+10 5.8' Rt to 9+00 5.0' Rt	90	LF
		Sta 8+32 15.3' Rt to 8+32 22.8' Lt	38	LF
		Sta 8+32 15.3' Rt to 9+00 15.0' Rt	69	LF
202	0210	REMOVAL OF MANHOLES		
		Sta 8+31 15.3' Rt	1	EA
724	6031	ABANDON WATER MAIN/SERVICE LINE		
		Sta 8+15 to 9+00 8.7' Lt	90	LF

LEPIRD'S ADDITION BLOCK 3

LEPIRD'S ADDITION BLOCK 2

LOCK 3 ADDITION

BLOCK 1

COMMUNITY PRESBYTERIAN CHURCH

SOOPER STOP (VACANT)

HOUSING AUTHORITY OF CASS COUNTY

CENTURYLINK

8th Ave

7th Ave

SOUTHDALE

SHEYENNE

Temp Esmt for Lots 1-2, 13-14 Has Not Been Granted. Contractor to Avoid Disturbance to These Lots.

Temp Esmt for Lots 15-18 Has Not Been Granted. Contractor to Avoid Disturbance to These Lots.

Pavement Removal Limit

Remove MH

SD MH Rim 897.96
Inv. 892.01

SD CB Rim 897.65
Inv. 893.50

SD CB Rim 897.59
Inv. 894.94

SD CB Rim 897.50
Inv. 893.54

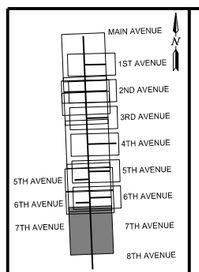
SAN MH Rim 897.31
W Inv. 890.87
N Inv. 889.29

SAN MH Rim 897.76
Inv. 885.73

SAN MH Rim 897.79
Inv. 885.52

LEGEND

- REMOVAL OF PIPE
- ABANDON PIPE
- PAVEMENT REMOVAL LIMITS



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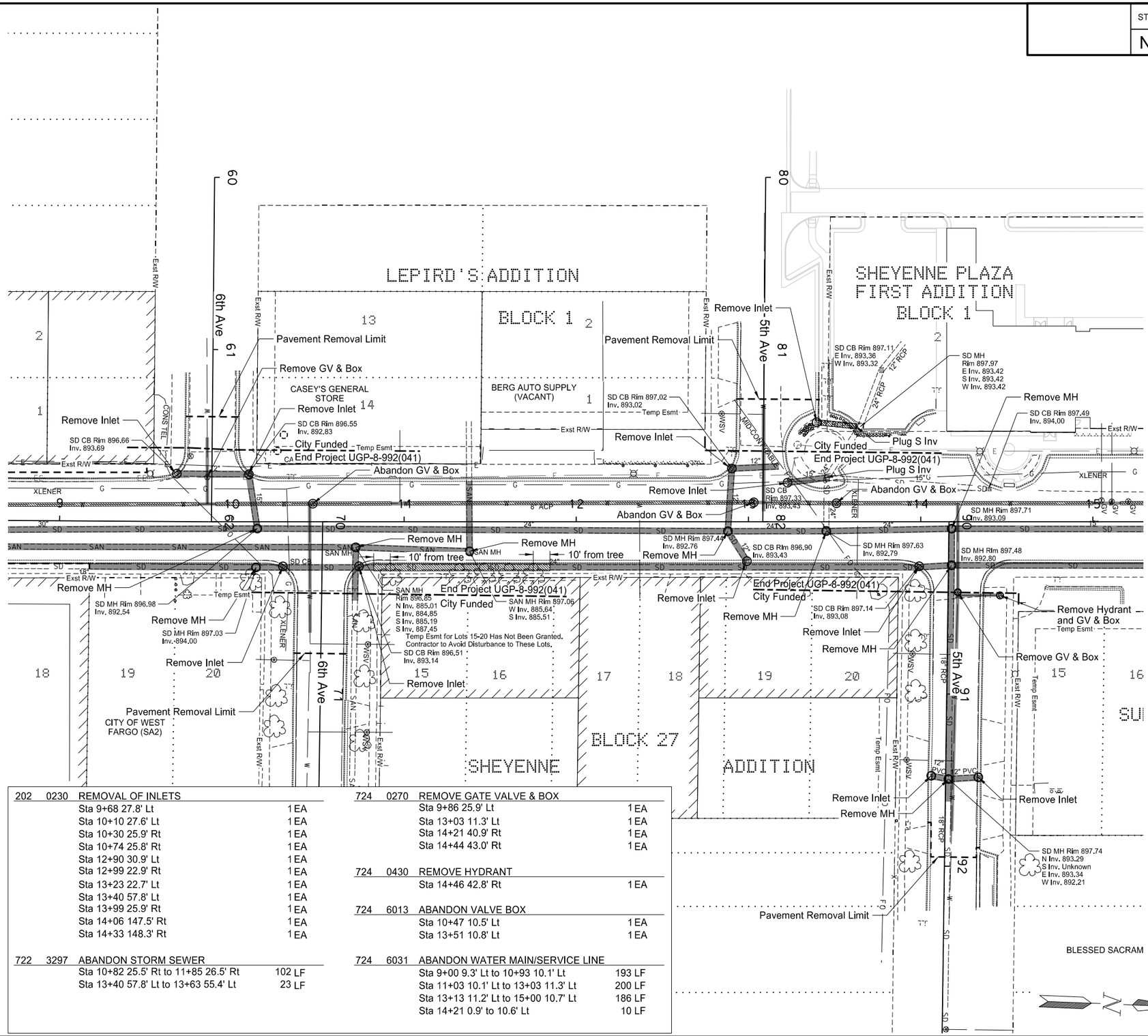
Sheyenne Street

Removals - Underground

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	7

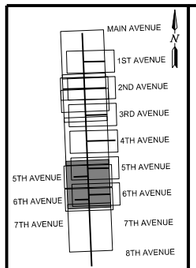


SPEC	CODE	BID ITEM	QTY	UNIT
202	0173	REMOVAL OF SEWER PIPE		
		Sta 9+00 5.0' Rt to 10+15 4.0 Rt	115	LF
		Sta 9+00 15.0' Rt to 10+72 14.8 Rt	172	LF
		Sta 9+17 26.3' Rt to 10+14 26.5 Rt	97	LF
		Sta 9+68 27.8' Lt to 10+10 27.6 Lt	42	LF
		Sta 10+10 27.6' Lt to 10+15 4.0' Rt	32	LF
		Sta 10+15 4.0' Rt to 12+88 5.5 Rt	273	LF
		Sta 10+14 26.5' Rt to 13+99 25.9' Rt	384	LF
		Sta 10+30 25.9 Rt to 10+74 25.8' Rt	44	LF
		Sta 10+72 14.8' Rt to 11+38 17.1' Rt	66	LF
		Sta 10+74 25.8' Rt to 10+82 26.5' Rt	8	LF
		Sta 11+38 23.4' Lt to 11+38 17.1' Rt	40	LF
		Sta 11+85 26.5' Rt to 13+99 25.9' Rt	214	LF
		Sta 13+99 25.9' Rt to 14+18 25.3' Rt	20	LF
		Sta 14+06 147.5' Rt to 14+16 149.4' Rt	10	LF
		Sta 14+16 149.4' Rt to 14+33 148.3' Rt	17	LF
		Sta 14+18 25.3' Rt to 15+00 25.4' Rt	82	LF
		Sta 14+18 4.0' Rt to 14+18 25.3' Rt	21	LF
		Sta 14+18 25.3' Rt to 14+16 149.4' Rt	124	LF
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		Sta 9+85 49.0' Lt to 9+85 10.3' Lt	39	LF
		Sta 10+47 10.5' Lt to 10+45 64.4' Rt	75	LF
		Sta 10+93 10.1' Lt to 11+03 10.1' Lt	10	LF
		Sta 13+09 67.7' Lt to 13+08 11.2' Lt	56	LF
		Sta 13+23 22.7' Lt to 13+44 25.5' Lt	21	LF
		Sta 14+21 10.6' Lt to 14+18 180.0' Rt	190	LF
		Sta 14+21 42.4' Rt to 14+44 43.0 Rt	22	LF
202	0210	REMOVAL OF MANHOLES		
		Sta 10+14 26.5' Rt	1	EA
		Sta 10+15 4.0' Rt	1	EA
		Sta 10+72 14.8' Rt	1	EA
		Sta 11+38 17.1' Rt	1	EA
		Sta 12+88 5.5' Rt	1	EA
		Sta 13+45 5.4' Rt	1	EA
		Sta 14+16 149.4' Rt	1	EA
		Sta 14+18 4.0' Rt	1	EA
		Sta 14+18 25.3' Rt	1	EA

SPEC	CODE	BID ITEM	QTY	UNIT
202	0230	REMOVAL OF INLETS		
		Sta 9+68 27.8' Lt	1	EA
		Sta 10+10 27.6' Lt	1	EA
		Sta 10+30 25.9' Rt	1	EA
		Sta 10+74 25.8' Rt	1	EA
		Sta 12+90 30.9' Lt	1	EA
		Sta 12+99 22.9' Rt	1	EA
		Sta 13+23 22.7' Lt	1	EA
		Sta 13+40 57.8' Lt	1	EA
		Sta 13+99 25.9' Rt	1	EA
		Sta 14+06 147.5' Rt	1	EA
		Sta 14+33 148.3' Rt	1	EA
722	3297	ABANDON STORM SEWER		
		Sta 10+82 25.5' Rt to 11+85 26.5' Rt	102	LF
		Sta 13+40 57.8' Lt to 13+63 55.4' Lt	23	LF
724	0270	REMOVE GATE VALVE & BOX		
		Sta 9+86 25.9' Lt	1	EA
		Sta 13+03 11.3' Lt	1	EA
		Sta 14+21 40.9' Rt	1	EA
		Sta 14+44 43.0' Rt	1	EA
724	0430	REMOVE HYDRANT		
		Sta 14+46 42.8' Rt	1	EA
724	6013	ABANDON VALVE BOX		
		Sta 10+47 10.5' Lt	1	EA
		Sta 13+51 10.8' Lt	1	EA
724	6031	ABANDON WATER MAIN/SERVICE LINE		
		Sta 9+00 9.3' Lt to 10+93 10.1' Lt	193	LF
		Sta 11+03 10.1' Lt to 13+03 11.3' Lt	200	LF
		Sta 13+13 11.2' Lt to 15+00 10.7' Lt	186	LF
		Sta 14+21 0.9' to 10.6' Lt	10	LF

LEGEND

- REMOVAL OF PIPE
- ABANDON PIPE
- PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals - Underground

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	8

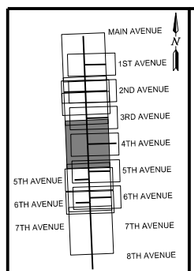
SPEC	CODE	BID ITEM	QTY	UNIT
202	0173	REMOVAL OF SEWER PIPE		
		Sta 15+00 4.2' Rt to 15+78 4.4' Rt	78	LF
		Sta 15+00 25.4' Rt to 17+58 25.8' Rt	258	LF
		Sta 15+78 4.4' Rt to 15+78 8.6' Lt	13	LF
		Sta 15+78 4.4' Rt to 15+78 23.1' Rt	19	LF
		Sta 17+58 25.8' Rt to 17+88 25.0' Rt	29	LF
		Sta 17+58 25.8' Rt to 17+73 58.8' Rt	36	LF
		Sta 17+73 58.8' Rt to 18+10 59.0' Rt	37	LF
		Sta 17+88 25.0' Rt to 21+00 4.9' Rt	312	LF
		Sta 18+21 7.0' Lt to 18+19 4.5' Rt	12	LF
		Sta 18+19 4.5' Rt to 21+00 4.9' Rt	281	LF
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		Sta 15+00 to 15+16 10.7' Lt	16	LF
		Sta 17+89 10.3' Lt to 17+99 10.6' Lt	10	LF
		Sta 17+93 10.9' Lt to 17+93 234.7' Rt	245	LF
		Sta 20+42 11.5' Lt to 20+69 11.5' Lt	27	LF
202	0210	REMOVAL OF MANHOLES		
		Sta 15+78 4.4' Lt	1	EA
		Sta 17+88 25.0' Rt	1	EA
		Sta 18+19 4.5' Rt	1	EA
202	0230	REMOVAL OF INLETS		
		Sta 15+78 23.1' Rt	1	EA
		Sta 17+58 25.8' Rt	1	EA
		Sta 17+73 58.8' Rt	1	EA
		Sta 18+10 59.0' Rt	1	EA
724	0270	REMOVE GATE VALVE & BOX		
		Sta 17+89 10.3' Lt	1	EA
		Sta 17+95 38.8' Rt	1	EA
		Sta 17+99 10.6' Lt	1	EA
722	6013	ABANDON VALVE BOX		
		Sta 19+83 12.3' Lt	1	EA
724	6031	ABANDON WATER MAIN/SERVICE LINE		
		Sta 15+16 10.7' Lt to 17+89 10.3' Lt	273	LF
		Sta 17+99 10.6' Lt to 20+42 11.5' Lt	242	LF
		Sta 20+69 11.5' Lt to 21+00 11.5' Lt	30	LF

LEGEND

REMOVAL OF PIPE

ABANDON PIPE

PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals - Underground

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

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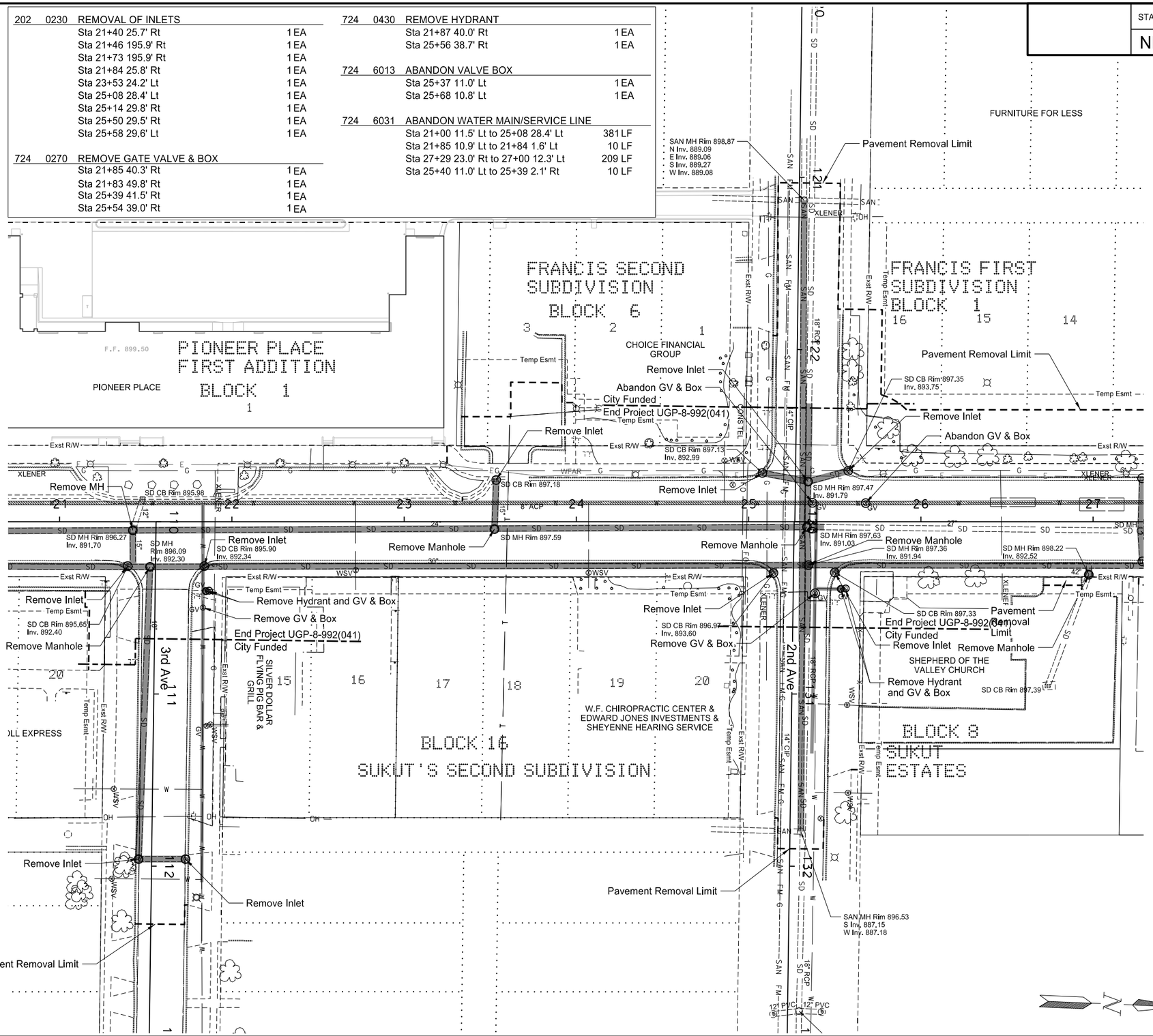
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	9

SPEC	CODE	BID ITEM	QTY	UNIT
202	0230	REMOVAL OF INLETS		
		Sta 21+40 25.7' Rt	1	EA
		Sta 21+46 195.9' Rt	1	EA
		Sta 21+73 195.9' Rt	1	EA
		Sta 21+84 25.8' Rt	1	EA
		Sta 23+53 24.2' Lt	1	EA
		Sta 25+08 28.4' Lt	1	EA
		Sta 25+14 29.8' Rt	1	EA
		Sta 25+50 29.5' Rt	1	EA
		Sta 25+58 29.6' Lt	1	EA
724	0270	REMOVE GATE VALVE & BOX		
		Sta 21+85 40.3' Rt	1	EA
		Sta 21+83 49.8' Rt	1	EA
		Sta 25+39 41.5' Rt	1	EA
		Sta 25+54 39.0' Rt	1	EA
724	0430	REMOVE HYDRANT		
		Sta 21+87 40.0' Rt	1	EA
		Sta 25+56 38.7' Rt	1	EA
724	6013	ABANDON VALVE BOX		
		Sta 25+37 11.0' Lt	1	EA
		Sta 25+68 10.8' Lt	1	EA
724	6031	ABANDON WATER MAIN/SERVICE LINE		
		Sta 21+00 11.5' Lt to 25+08 28.4' Lt	381	LF
		Sta 21+85 10.9' Lt to 21+84 1.6' Lt	10	LF
		Sta 27+29 23.0' Rt to 27+00 12.3' Lt	209	LF
		Sta 25+40 11.0' Lt to 25+39 2.1' Rt	10	LF

SPEC	CODE	BID ITEM	QTY	UNIT
202	0173	REMOVAL OF SEWER PIPE		
		Sta 21+00 4.9' Lt to 21+42 5.0' Rt	42	LF
		Sta 21+00 25.6' Rt to 21+40 25.7' Rt	40	LF
		Sta 21+40 25.7' Rt to 21+52 26.2' Rt	13	LF
		Sta 21+42 5.0' Rt to 21+42 26.0' Rt	21	LF
		Sta 21+42 5.0' Rt to 21+46 7.0' Lt	12	LF
		Sta 21+42 5.0' Rt to 23+52 4.2' Rt	210	LF
		Sta 21+46 195.9' Rt to 21+73 195.9' Rt	27	LF
		Sta 21+52 26.2' Rt to 21+84 25.8' Rt	31	LF
		Sta 21+52 26.2' Rt to 21+46 195.9' Rt	170	LF
		Sta 21+84 25.8' Rt to 25+34 25.2' Rt	351	LF
		Sta 23+52 4.2' Rt to 23+53 24.2' Lt	28	LF
		Sta 23+52 4.2' Rt to 25+34 3.0' Rt	181	LF
		Sta 25+14 25.8' Rt to 25+14 29.8' Rt	4	LF
		Sta 25+08 28.4' Lt to 25+35 23.4' Lt	27	LF
		Sta 25+34 199.8' Lt to 25+30 179.9' Rt	380	LF
		Sta 25+35 23.4' Lt to 25+58 29.6' Lt	24	LF
		Sta 25+35 66.7' Lt to 25+35 23.4' Lt	43	LF
		Sta 25+35 23.4' Lt to 25+34 3.0' Rt	26	LF
		Sta 25+34 3.0' Rt to 25+34 25.2' Rt	22	LF
		Sta 25+34 25.2' Rt to 25+34 61.9' Rt	37	LF
		Sta 25+34 25.2' Rt to 27+00 25.4' Rt	165	LF
		Sta 25+50 25.5' Rt to 25+50 29.5' Rt	4	LF
		Sta 26+98 25.4' Rt to 26+98 30.7' Rt	5	LF
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		Sta 21+84 1.6' Lt to 21+83 209.3' Rt	210	LF
		Sta 25+08 28.4' Lt to 27+29 23.0' Lt	10	LF
		Sta 25+39 2.1' Rt to 25+39 134.6' Rt	136	LF
		Sta 25+39 40.0' Rt to 25+54 39.0' Rt	15	LF
202	0210	REMOVAL OF MANHOLES		
		Sta 21+42 5.0' Rt	1	EA
		Sta 21+52 26.2' Rt	1	EA
		Sta 23+52 4.2' Rt	1	EA
		Sta 25+35 23.4' Lt	1	EA
		Sta 25+34 3.0' Rt	1	EA
		Sta 25+34 25.2' Rt	1	EA
		Sta 26+98 30.7' Rt	1	EA

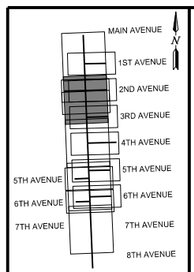


LEGEND

REMOVAL OF PIPE

ABANDON PIPE

PAVEMENT REMOVAL LIMITS



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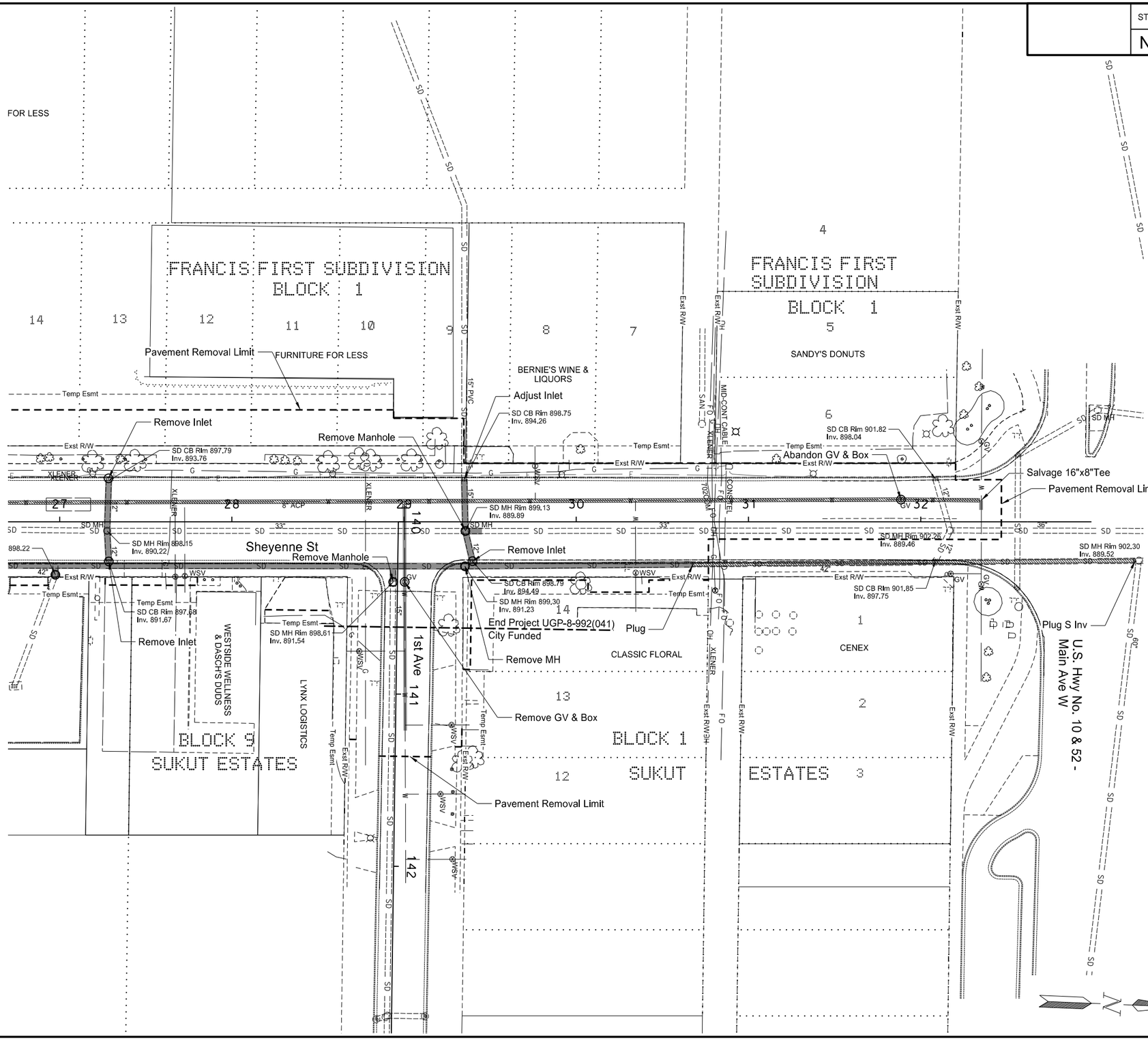
Sheyenne Street

Removals - Underground

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	40	10



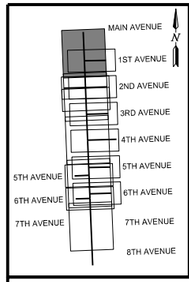
SPEC	CODE	BID ITEM	QTY	UNIT
202	0173	REMOVAL OF SEWER PIPE		
		Sta 27+00 25.4' Rt to 29+35 25.8' Rt	253	LF
		Sta 27+28 25.2' Lt to 27+28 20.8' Lt	4	LF
		Sta 27+28 5.2' Rt to 27+29 23.0' Rt	18	LF
		Sta 28+94 25.8' Rt to 28+94 34.9' Rt	9	LF
		Sta 29+36 5.4' Rt to 29+40 22.9' Rt	18	LF
		Sta 29+35 28.7' Lt to 29+35 24.7' Lt	4	LF
		Sta 29+35 24.7' Lt to 29+35 13.5' Lt	9	LF
		Sta 29+35 25.8' Rt to 30+67 24.7' Rt	132	LF
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		Sta 27+28 20.2' to 24.2' Lt	4	LF
		Sta 27+28 12.3' to 24.0' Rt	12	LF
		Sta 29+36 5.5' Rt to 29+45 5.5' Rt	9	LF
		Sta 29+37 12.5' Rt to 29+39 23.9' Rt	11	LF
202	0210	REMOVAL OF MANHOLES		
		Sta 28+94 34.9' Rt	1	EA
		Sta 29+35 25.8' Rt	1	EA
		Sta 29+36 5.5' Rt	1	EA
202	0230	REMOVAL OF INLETS		
		Sta 27+28 25.2' Lt	1	EA
		Sta 27+29 23.0' Rt	1	EA
		Sta 28+94 34.9' Rt	1	EA
		Sta 29+35 24.7' Lt	1	EA
		Sta 29+40 22.9' Rt	1	EA
722	3297	ABANDON STORM SEWER		
		Sta 30+67 24.7' Rt to 32+99 22.6' Rt	260	LF
724	0270	REMOVE GATE VALVE & BOX		
		Sta 29+00 34.9' Rt	1	EA
724	6013	ABANDON VALVE BOX		
		Sta 31+89 12.9' Lt	1	EA
724	6031	ABANDON WATER MAIN/SERVICE LINE		
		Sta 27+00 12.3' Lt to 29+71 12.6' Lt	271	LF
		Sta 29+00 12.5' Lt to 29+00 2.5' Lt	10	LF
		Sta 29+81 12.6' Lt to 32+32 12.5' Lt	254	LF

LEGEND

REMOVAL OF PIPE

ABANDON PIPE

PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals - Underground

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	1

Manhole No.	ST- 1	60 IN
Sta.		8+09.77' - 5.8' Rt.
Casting Style		(Y)
Rim Elev.		897.60
Base Elev.		891.85
Invert Elev.		892.26
Riser		4.00 FT
36 In.	Conduit N	892.26
30 In.	Conduit S	892.26

Manhole No.	ST- 2	96 IN
Sta.		8+21.63' - 8.0' Rt.
Casting Style		(Y)
Rim Elev.		897.48
Base Elev.		883.11
Invert Elev.		883.57
Riser		12.62 FT
54 In.	Conduit N	883.57
36 In.	Conduit S	892.26

Manhole No.	ST- 3	96 IN
Sta.		10+13.06' - 7.8' Rt.
Casting Style		(Z)
Rim Elev.		896.54
Base Elev.		883.94
Invert Elev.		884.40
Riser		10.47 FT
18 In.	Conduit SE	891.37
54 In.	Conduit N	886.72
54 In.	Conduit S	884.40
24 In.	Conduit W	892.16

Inlet No.	ST- 3A	
Sta.		10+07.93' - 14.3' Rt.
Type	48 IN	Inlet Special-Type II
Grate Style		(A)
Grate Elev.		896.38
Base Elev.		891.05
Invert Elev.		891.45
H' Dist		4.00 FT
15 In.	Conduit NE	891.45
18 In.	Conduit NW	891.45

Inlet No.	ST- 3B	
Sta.		10+37.82' - 39.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.14
Base Elev.		891.31
Invert Elev.		892.4
H' Dist		4.00 FT
15 In.	Conduit SW	892.40
15 In.	Conduit N	892.40

Inlet No.	ST- 3C	
Sta.		10+67.47' - 35.8' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.24
Base Elev.		891.41
Invert Elev.		892.57
H' Dist		4.00 FT
15 In.	Conduit NW	892.57
15 In.	Conduit S	892.57

Manhole No.	ST- 3-1	96 IN
Sta.		11+07' - 7.7' Rt.
Casting Style		(Z)
Rim Elev.		896.85
Base Elev.		886.61
Invert Elev.		887.07
Riser		8.11 FT
54 In.	Conduit S	887.07
54 In.	Conduit N	887.07
15 In.	Conduit W	891.81
15 In.	Conduit E	891.94

Inlet No.	ST- 3-1A	
Sta.		11+07.44' - 12.8' Lt.
Type		Inlet -Type 2
Grate Style		(B)
Grate Elev.		896.66
Base Elev.		891.82
Invert Elev.		892.01
H' Dist		4.00 FT
15 In.	Conduit SE	892.01

Inlet No.	ST- 3-1B	
Sta.		11+07.44' - 14.2' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.66
Base Elev.		891.82
Invert Elev.		892.01
H' Dist		4.00 FT
15 In.	Conduit SE	892.01

Manhole No.	ST- 4	96 IN
Sta.		13+06.20' - 7.5' Rt.
Casting Style		(Z)
Rim Elev.		897.25
Base Elev.		887.35
Invert Elev.		887.81
Riser		7.77 FT
15 In.	Conduit E	890.71
54 In.	Conduit S	887.81
54 In.	Conduit N	887.81
15 In.	Conduit W	891.83

Inlet No.	ST- 4A	
Sta.		81+57.11' - 14.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.87
Base Elev.		891.90
Invert Elev.		892.09
H' Dist		4.13 FT
15 In.	Conduit E	892.09
15 In.	Conduit N	892.09

Inlet No.	ST- 4B	(1)
Sta.		81+13.54' - 4.20' Rt.
Type		Inlet -Type 2 Double
Grate Style		(B)
Grate Elev.		897.01
Base Elev.		890.59
Invert Elev.		890.78
H' Dist		5.58 FT
15 In.	Conduit W	890.78

Inlet No.	ST- 4C	
Sta.		81+57.39' - 12.0' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.92
Base Elev.		892.09
Invert Elev.		892.35
H' Dist		4.00 FT
15 In.	Conduit S	892.35

Manhole No.	ST- 5	96 IN
Sta.		13+45.19' - 7.5' Rt.
Casting Style		(Z)
Rim Elev.		897.52
Base Elev.		887.49
Invert Elev.		887.95
Riser		7.90 FT
24 In.	Conduit W	892.90
54 In.	Conduit N	887.95
54 In.	Conduit S	887.95

Inlet No.	ST- 5A	
Sta.		13+45.75' - 18.1' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.30
Base Elev.		892.47
Invert Elev.		892.93
H' Dist		4.00 FT
24 In.	Conduit E	892.93
24 In.	Conduit W	892.93

Manhole No.	ST- 6	96 IN
Sta.		14+22.89' - 7.5' Rt.
Casting Style		(Z)
Rim Elev.		897.67
Base Elev.		887.75
Invert Elev.		888.21
Riser		7.79 FT
18 In.	Conduit E	890.25
54 In.	Conduit N	888.21
54 In.	Conduit S	888.21

Manhole No.	ST- 7	96 IN
Sta.		15+77.85' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.05
Base Elev.		888.26
Invert Elev.		888.72
Riser		6.66 FT
54 In.	Conduit S	888.72
54 In.	Conduit N	888.72
15 In.	Conduit E	892.95
12 In.	Conduit W	892.95

Inlet No.	ST- 7A	
Sta.		15+77.86' - 13.2' Rt.
Type		Inlet -Type 2
Grate Style		(C)
Grate Elev.		896.88
Base Elev.		891.80
Invert Elev.		893.07
H' Dist		4.00 FT
15 In.	Conduit W	893.07

Manhole No.	ST- 8	48 IN
Sta.		17+87.00' - 16.5' Rt.
Casting Style		(Z)
Rim Elev.		896.76
Base Elev.		890.80
Invert Elev.		891.92
Riser		4.00 FT
18 In.	Conduit W	891.92
15 In.	Conduit E	891.92
15 In.	Conduit S	891.92

Inlet No.	ST- 8A	
Sta.		17+34.51' - 13.6' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.58
Base Elev.		891.75
Invert Elev.		892.54
H' Dist		4.00 FT
15 In.	Conduit N	892.54

Manhole No.	ST- 8B	
Sta.		17+85.28' - 42.4' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.43
Base Elev.		891.60
Invert Elev.		892.43
H' Dist		4.00 FT
15 In.	Conduit W	892.43

Manhole No.	ST- 9	96 IN
Sta.		17+87.49' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.98
Base Elev.		888.92
Invert Elev.		889.38
Riser		5.93 FT
54 In.	Conduit S	889.38
54 In.	Conduit N	889.38
18 In.	Conduit E	891.73
18 In.	Conduit W	891.5

Manhole No.	ST- 10	96 IN
Sta.		18+18.22' - 6.9' Rt.
Casting Style		(Z)
Rim Elev.		896.90
Base Elev.		889.03
Invert Elev.		889.49
Riser		5.74 FT
54 In.	Conduit S	889.49
48 In.	Conduit N	889.49
12 In.	Conduit W	892.74
15 In.	Conduit E	891.48

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN curb at structure

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Sheyenne Street

Inlet and Manhole Summary

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	2

Manhole No.	ST- 10-1	60 IN
Sta.		18+17' - 16.3' Rt.
Casting Style		(Z)
Rim Elev.		896.65
Base Elev.		890.53
Invert Elev.		891.58
Riser		4.00 FT
18 In.	Conduit W	891.58
15 In.	Conduit E	891.58
15 In.	Conduit N	891.58

Inlet No.	ST- 10-1A	
Sta.		18+40' - 13.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.58
Base Elev.		891.75
Invert Elev.		892.55
H' Dist		4.00 FT
15 In.	Conduit S	892.55

Manhole No.	ST- 11	84 IN
Sta.		19+71.00' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.80
Base Elev.		888.62
Invert Elev.		890.04
Riser		6.05 FT
48 In.	Conduit S	890.04
48 In.	Conduit N	890.04
12 In.	Conduit E	891.48

Manhole No.	ST- 12	84 IN
Sta.		19+92.76' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.71
Base Elev.		888.70
Invert Elev.		890.12
Riser		5.88 FT
48 In.	Conduit S	890.12
36 In.	Conduit N	890.12
24 In.	Conduit W	891.92

Manhole No.	ST- 12-1	60 IN
Sta.		21+13.15' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.23
Base Elev.		890.11
Invert Elev.		890.52
Riser		4.00 FT
36 In.	Conduit S	890.52
36 In.	Conduit N	890.52
15 In.	Conduit E	891.71

Inlet No.	ST- 12-1A	
Sta.		21+13.15' - 13.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.00
Base Elev.		891.17
Invert Elev.		892
H' Dist		4.00 FT
15 In.	Conduit W	892.00

Manhole No.	ST- 13	84 IN
Sta.		21+41.69' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.16
Base Elev.		890.04
Invert Elev.		890.61
Riser		4.00 FT
36 In.	Conduit S	890.61
12 In.	Conduit W	891.76
36 In.	Conduit N	890.61
24 In.	Conduit E	891.00

Manhole No.	ST- 14	60 IN
Sta.		22+06.66' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.45
Base Elev.		890.33
Invert Elev.		890.77
Riser		4.00 FT
15 In.	Conduit E	892.00
36 In.	Conduit N	890.77
36 In.	Conduit S	890.77

Inlet No.	ST- 14A (3)	
Sta.		22+06.66' - 13.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.21
Base Elev.		891.38
Invert Elev.		892.15
H' Dist		4.00 FT
15 In.	Conduit W	892.15

Manhole No.	ST- 14-1	60 IN
Sta.		22+97' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.08
Base Elev.		890.67
Invert Elev.		891.00
Riser		4.29 FT
36 In.	Conduit S	891.00
36 In.	Conduit N	891.00
15 In.	Conduit E	892.69

Inlet No.	ST- 14-1A(2) (3)	
Sta.		22+97' - 13.5' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.85
Base Elev.		892.02
Invert Elev.		892.75
H' Dist		4.00 FT
15 In.	Conduit W	892.75

Manhole No.	ST- 15	60 IN
Sta.		23+91.26' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.68
Base Elev.		890.91
Invert Elev.		891.24
Riser		4.65 FT
36 In.	Conduit N	891.24
36 In.	Conduit S	891.24
15 In.	Conduit W	892.00

Inlet No.	ST- 15A	
Sta.		23+91.26' - 50.1' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		898.38
Base Elev.		893.55
Invert Elev.		894.38
H' Dist		4.00 FT
15 In.	Conduit E	894.38

Manhole No.	ST- 16	72 IN
Sta.		24+91.63' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.23
Base Elev.		891.11
Invert Elev.		891.49
Riser		4.00 FT
36 In.	Conduit S	891.49
36 In.	Conduit N	891.49
15 In.	Conduit W	892.24
15 In.	Conduit E	892.26

Inlet No.	ST- 16A	
Sta.		24+91.13' - 13.9' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.10
Base Elev.		892.26
Invert Elev.		892.45
H' Dist		4.00 FT
15 In.	Conduit E	892.45

Inlet No.	ST- 16B	
Sta.		24+91.11' - 14.1' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.98
Base Elev.		892.14
Invert Elev.		892.33
H' Dist		4.00 FT
15 In.	Conduit W	892.33

Manhole No.	ST- 17	72 IN
Sta.		130+21.55' - 8.7' Lt.
Casting Style		(Z)
Rim Elev.		895.68
Base Elev.		889.56
Invert Elev.		891.6
Riser		4.00 FT
24 In.	Conduit E	891.70
36 In.	Conduit S	891.60
18 In.	Conduit W	892.00

Manhole No.	ST- 18	48 IN
Sta.		130+61.75' - 8.4' Lt.
Casting Style		(Z)
Rim Elev.		896.97
Base Elev.		891.01
Invert Elev.		891.9
Riser		4.00 FT
15 In.	Conduit S	892.00
15 In.	Conduit N	892.58
24 In.	Conduit W	891.90
18 In.	Conduit E	892.00

Inlet No.	ST- 18A	
Sta.		130+61.16' - 12.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.72
Base Elev.		891.89
Invert Elev.		892.22
H' Dist		4.00 FT
15 In.	Conduit N	892.22

Inlet No.	ST- 18B	
Sta.		130+62.10' - 20.5' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.72
Base Elev.		891.89
Invert Elev.		892.72
H' Dist		4.00 FT
15 In.	Conduit S	892.72

Manhole No.	ST- 19	84 IN
Sta.		130+02.93' - 12.9' Lt.
Casting Style		(Z)
Rim Elev.		897.56
Base Elev.		890.76
Invert Elev.		891.03
Riser		4.68 FT
18 In.	Conduit E	892.00
18 In.	Conduit W	891.03
27 In.	Conduit N	891.03

Manhole No.	ST- 20	48 IN
Sta.		122+33.15' - 7.4' Lt.
Casting Style		(Z)
Rim Elev.		897.85
Base Elev.		891.61
Invert Elev.		891.82
Riser		4.28 FT
15 In.	Conduit N	893.34
15 In.	Conduit S	893.34
18 In.	Conduit E	891.82
18 In.	Conduit W	891.82

Inlet No.	ST- 20A	
Sta.		122+33.15' - 12.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.54
Base Elev.		892.71
Invert Elev.		893.54
H' Dist		4.00 FT
15 In.	Conduit N	893.54

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN curb at structure

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Sheyenne Street

Inlet and Manhole Summary

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	3

Inlet No.	ST- 20B	
Sta.	122+33.15' - 25' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	897.52	
Base Elev.	892.69	
Invert Elev.	893.52	
H' Dist	4.00 FT	
15 In.	Conduit S	893.52
15 In.	Conduit N	893.52

Inlet No.	ST- 20C	
Sta.	122+29.00' - 44' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.74	
Base Elev.	893.91	
Invert Elev.	894.74	
H' Dist	4.00 FT	
15 In.	Conduit S	894.74

Manhole No.	ST- 21	60 IN
Sta.	25+74.66' - 3.5' Rt.	
Casting Style	(Z)	
Rim Elev.	897.73	
Base Elev.	890.60	
Invert Elev.	890.87	
Riser	5.01 FT	
15 In.	Conduit W	893.18
27 In.	Conduit S	890.87
27 In.	Conduit N	890.87
15 In.	Conduit E	893.18

Inlet No.	ST- 21A	
Sta.	25+74.64' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	897.50	
Base Elev.	892.62	
Invert Elev.	892.81	
H' Dist	4.04 FT	
15 In.	Conduit E	892.81

Inlet No.	ST- 21B	
Sta.	25+74.66' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	897.39	
Base Elev.	892.56	
Invert Elev.	893.37	
H' Dist	4.00 FT	
15 In.	Conduit W	893.37

Inlet No.	ST- 21C	
Sta.	25+97.66' - 47.1' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.89	
Base Elev.	894.05	
Invert Elev.	894.24	
H' Dist	4.00 FT	
15 In.	Conduit SE	894.24

Inlet No.	ST- 23A	
Sta.	27+36.77' - 14.0' Lt.	
Type	Inlet -Type 2 Double	
Grate Style	(C)	
Grate Elev.	897.65	
Base Elev.	892.57	
Invert Elev.	893.67	
H' Dist	4.00 FT	
15 In.	Conduit SE	893.67

Inlet No.	ST- 23B	
Sta.	27+34.02' - 13.5' Rt.	
Type	Inlet -Type 2 Double	
Grate Style	(A)	
Grate Elev.	897.59	
Base Elev.	892.76	
Invert Elev.	893.59	
H' Dist	4.00 FT	
15 In.	Conduit SW	893.59

Manhole No.	ST- 22	60 IN
Sta.	27+07.04' - 4.9' Rt.	
Casting Style	(Z)	
Rim Elev.	897.98	
Base Elev.	890.06	
Invert Elev.	890.33	
Riser	5.80 FT	
12 In.	Conduit E	892.00
27 In.	Conduit S	890.33
27 In.	Conduit N	890.33

Manhole No.	ST- 24	60 IN
Sta.	28+23.54' - 5.3' Rt.	
Casting Style	(Z)	
Rim Elev.	898.37	
Base Elev.	889.76	
Invert Elev.	890.07	
Riser	6.49 FT	
15 In.	Conduit W	891.29
33 In.	Conduit S	890.07
33 In.	Conduit N	890.07

Inlet No.	ST- 24A	
Sta.	28+23.58' - 47.1' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.63	
Base Elev.	893.44	
Invert Elev.	893.63	
H' Dist	4.35 FT	
15 In.	Conduit E	893.63

Manhole No.	ST- 25	60 IN
Sta.	28+93.98' - 5.3' Rt.	
Casting Style	(Z)	
Rim Elev.	898.66	
Base Elev.	889.65	
Invert Elev.	889.96	
Riser	6.89 FT	
18 In.	Conduit E	891.54
33 In.	Conduit S	889.96
33 In.	Conduit N	889.96

Manhole No.	ST- 26	60 IN
Sta.	29+44' - 5.4' Rt.	
Casting Style	(Z)	
Rim Elev.	899.02	
Base Elev.	889.58	
Invert Elev.	889.89	
Riser	7.32 FT	
15 In.	Conduit W	893.92
15 In.	Conduit E	894.09
33 In.	Conduit S	889.89
33 In.	Conduit N	889.89

Inlet No.	ST- 26A	
Sta.	29+44.29' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.80	
Base Elev.	893.92	
Invert Elev.	894.11	
H' Dist	4.04 FT	
15 In.	Conduit SW	894.11
15 In.	Conduit E	894.1

Inlet No.	ST- 26B	
Sta.	29+43.60' - 13.5' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.82	
Base Elev.	893.98	
Invert Elev.	894.17	
H' Dist	4.00 FT	
15 In.	Conduit W	894.17

Manhole No.	ST- 26-1	60 IN
Sta.	30+44.41' - 5.2' Rt.	
Casting Style	(Z)	
Rim Elev.	900.44	
Base Elev.	889.42	
Invert Elev.	889.73	
Riser	8.90 FT	
33 In.	Conduit S	889.73
33 In.	Conduit N	889.73
15 In.	Conduit SW	895.28
15 In.	Conduit E	895.49

Inlet No.	ST- 26-1A (2)	
Sta.	30+36.61' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	900.13	
Base Elev.	895.29	
Invert Elev.	895.48	
H' Dist	4.00 FT	
15 In.	Conduit NE	895.48

Inlet No.	ST- 26-1B	
Sta.	30+44.40' - 22.5' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	900.03	
Base Elev.	895.20	
Invert Elev.	895.66	
H' Dist	4.00 FT	
15 In.	Conduit W	895.66

Manhole No.	ST- 27	60 IN
Sta.	61+84.00' - 19.8' Lt.	
Casting Style	(Z)	
Rim Elev.	896.61	
Base Elev.	890.49	
Invert Elev.	892.28	
Riser	4.00 FT	
24 In.	Conduit E	892.28
24 In.	Conduit W	892.28
15 In.	Conduit N	892.28
15 In.	Conduit S	892.28

Inlet No.	ST- 27A	
Sta.	61+86.08' - 47.6' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	896.31	
Base Elev.	891.48	
Invert Elev.	892.56	
H' Dist	4.00 FT	
15 In.	Conduit S	892.56

Inlet No.	ST- 27B	
Sta.	61+55.79' - 14.5' Lt.	
Type	48 IN	Inlet Special-Type II
Grate Style	(B)	
Grate Elev.	896.93	
Base Elev.	891.60	
Invert Elev.	892.4	
H' Dist	4.00 FT	
24 In.	Conduit E	892.40
18 In.	Conduit S	892.40

Inlet No.	ST- 27C	
Sta.	61+55.00' - 13.8' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	896.88	
Base Elev.	892.05	
Invert Elev.	892.62	
H' Dist	4.00 FT	
18 In.	Conduit N	892.62

Inlet No.	ST- 27D (2)	
Sta.	61+85.11' - 46.4' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	896.62	
Base Elev.	891.79	
Invert Elev.	892.83	
H' Dist	4.00 FT	
15 In.	Conduit N	892.83

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN curb at structure

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Sheyenne Street

Inlet and Manhole Summary

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	4

Manhole No.	ST- 28	60 IN
Sta.	90+45.46' - 6.5' Lt.	
Casting Style		(Z)
Rim Elev.		897.29
Base Elev.		890.54
Invert Elev.		890.75
Riser		4.62 FT
15 In.	Conduit	NW 892.85
15 In.	Conduit	SE 893.00
18 In.	Conduit	W 890.75
18 In.	Conduit	E 891.72

Inlet No.	ST- 28A	
Sta.	90+42.17' - 12.5' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.09
Base Elev.		892.26
Invert Elev.		893.09
H' Dist		4.00 FT
15 In.	Conduit	SE 893.09

Inlet No.	ST- 28B	
Sta.	90+55.88' - 12.5' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.16
Base Elev.		892.33
Invert Elev.		893.16
H' Dist		4.00 FT
15 In.	Conduit	NW 893.16

Manhole No.	ST- 29	48 IN
Sta.	91+33.16' - 6.5' Lt.	
Casting Style		(Z)
Rim Elev.		897.74
Base Elev.		891.78
Invert Elev.		892.21
Riser		4.00 FT
18 In.	Conduit	W 892.21
15 In.	Conduit	N 893.19
18 In.	Conduit	E 892.51

Inlet No.	ST- 29A	
Sta.	91+33.16' - 21.0' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.47
Base Elev.		892.64
Invert Elev.		893.47
H' Dist		4.00 FT
15 In.	Conduit	S 893.47
15 In.	Conduit	N 893.47

Manhole No.	ST- 30	48 IN
Sta.	91+60.48' - 1.7' Lt.	
Casting Style		(Y)
Rim Elev.		897.92
Base Elev.		892.34
Invert Elev.		892.8
Riser		4.00 FT
18 In.	Conduit	W 892.80
15 In.	Conduit	S 892.98
18 In.	Conduit	E 893.35

Inlet No.	ST- 30A	
Sta.	91+64.78' - 10.3' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.30
Base Elev.		892.47
Invert Elev.		893.3
H' Dist		4.00 FT
15 In.	Conduit	N 893.30

Manhole No.	ST- 31	48 IN
Sta.	100+61.58' - 11.0' Lt.	
Casting Style		(Z)
Rim Elev.		896.71
Base Elev.		890.75
Invert Elev.		892.04
Riser		4.00 FT
15 In.	Conduit	N 892.35
15 In.	Conduit	W 892.04
15 In.	Conduit	E 892.04

Inlet No.	ST- 31A	
Sta.	100+61.58' - 20.0' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.35
Base Elev.		891.52
Invert Elev.		892.17
H' Dist		4.00 FT
15 In.	Conduit	S 892.17

Manhole No.	ST- 32	48 IN
Sta.	101+14.58' - 11.0' Lt.	
Casting Style		(Z)
Rim Elev.		896.86
Base Elev.		890.90
Invert Elev.		892.31
Riser		4.00 FT
15 In.	Conduit	N 892.31
15 In.	Conduit	W 892.31
15 In.	Conduit	S 892.3

Inlet No.	ST- 32A	
Sta.	101+14.58' - 31.1' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.61
Base Elev.		892.78
Invert Elev.		893.11
H' Dist		4.00 FT
15 In.	Conduit	S 893.11

Inlet No.	ST- 32B	
Sta.	101+08.77' - 30.0' Rt.	
Type	48 IN	Inlet Special-Type II
Grate Style		(A)
Grate Elev.		896.43
Base Elev.		891.10
Invert Elev.		892.54
H' Dist		4.00 FT
15 In.	Conduit	N 892.54
15 In.	Conduit	E 892.54

Inlet No.	ST- 32C	
Sta.	101+33.96' - 25.0' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.82
Base Elev.		891.99
Invert Elev.		892.82
H' Dist		4.00 FT
15 In.	Conduit	W 892.82
15 In.	Conduit	S 892.82

Manhole No.	ST- 33	60 IN
Sta.	110+43.78' - 5.5' Rt.	
Casting Style		(Z)
Rim Elev.		895.97
Base Elev.		889.85
Invert Elev.		891.19
Riser		4.00 FT
15 In.	Conduit	N 891.19
24 In.	Conduit	E 891.19
24 In.	Conduit	W 891.19
15 In.	Conduit	S 891.60

Inlet No.	ST- 33A	
Sta.	110+43.78' - 12.5' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		895.74
Base Elev.		890.91
Invert Elev.		891.74
H' Dist		4.00 FT
15 In.	Conduit	N 891.74
15 In.	Conduit	S 891.74

Inlet No.	ST- 33B	
Sta.	110+44.68' - 35.0' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.78
Base Elev.		891.95
Invert Elev.		892.78
H' Dist		4.00 FT
15 In.	Conduit	N 892.78

Inlet No.	ST- 33C	
Sta.	110+43' - 12.6' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		895.74
Base Elev.		890.91
Invert Elev.		891.74
H' Dist		4.00 FT
15 In.	Conduit	S 891.74

Manhole No.	ST- 34	48 IN
Sta.	110+89.09' - 5.5' Rt.	
Casting Style		(Z)
Rim Elev.		896.65
Base Elev.		890.69
Invert Elev.		891.42
Riser		4.00 FT
15 In.	Conduit	N 891.50
24 In.	Conduit	E 891.42
24 In.	Conduit	W 891.42

Inlet No.	ST- 34A	
Sta.	110+89.09' - 30.0' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		895.86
Base Elev.		891.03
Invert Elev.		891.86
H' Dist		4.00 FT
15 In.	Conduit	S 891.86

Manhole No.	ST- 35	48 IN
Sta.	111+30.98' - 5.5' Rt.	
Casting Style		(Z)
Rim Elev.		896.50
Base Elev.		890.54
Invert Elev.		891.63
Riser		4.00 FT
15 In.	Conduit	S 892.02
24 In.	Conduit	E 891.63
24 In.	Conduit	W 891.63

Inlet No.	ST- 35A	
Sta.	111+30.98' - 12.5' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.30
Base Elev.		891.47
Invert Elev.		892.3
H' Dist		4.00 FT
15 In.	Conduit	N 892.30

Inlet No.	ST- 35B	
Sta.	111+99.00' - 9.4' Rt.	
Type	60 IN	Inlet Special-Type II
Grate Style		(A)
Grate Elev.		896.17
Base Elev.		890.67
Invert Elev.		891.97
H' Dist		4.00 FT
24 In.	Conduit	N 891.97
24 In.	Conduit	W 891.97

Inlet No.	ST- 35C	
Sta.	111+98.75' - 20.5' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.12
Base Elev.		891.29
Invert Elev.		892.12
H' Dist		4.00 FT
24 In.	Conduit	S 892.12

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN curb at structure

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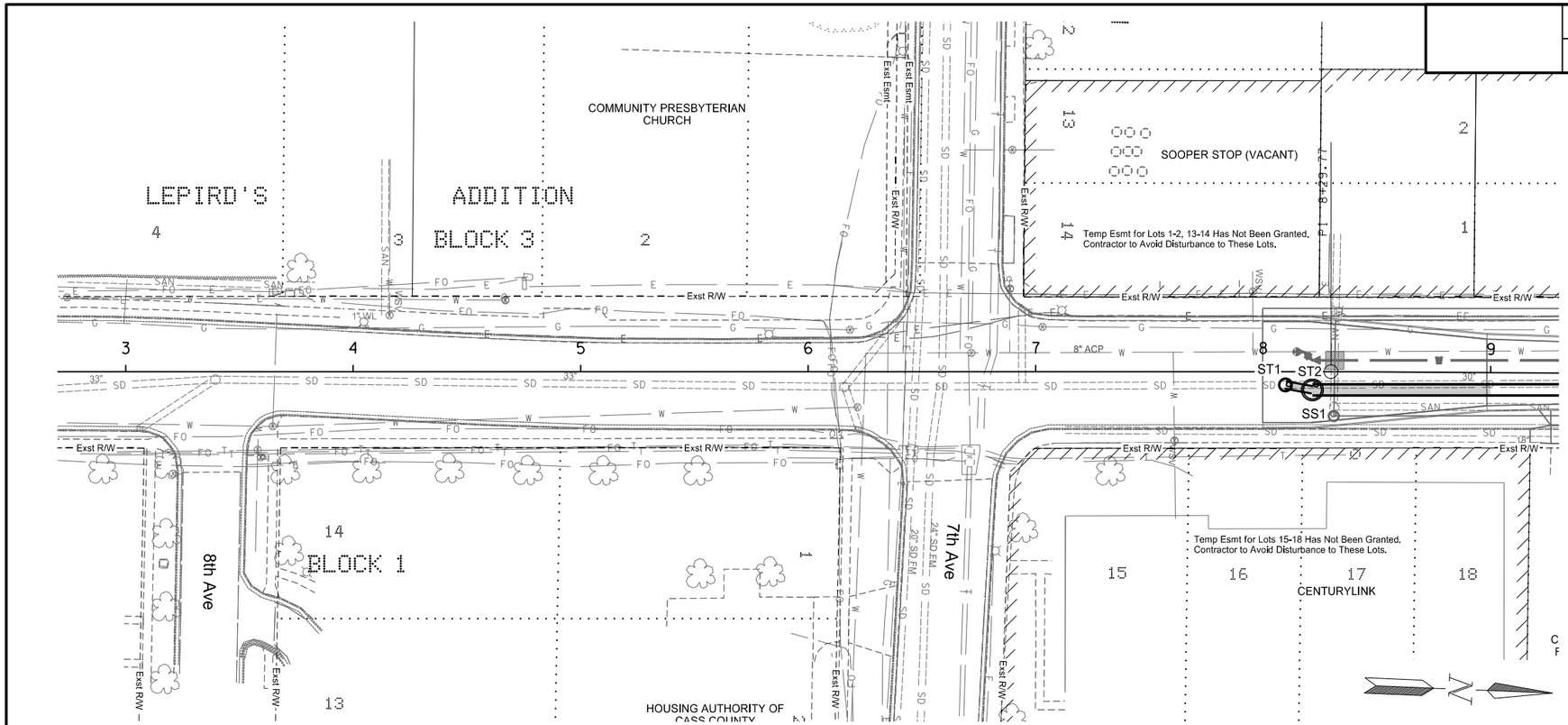
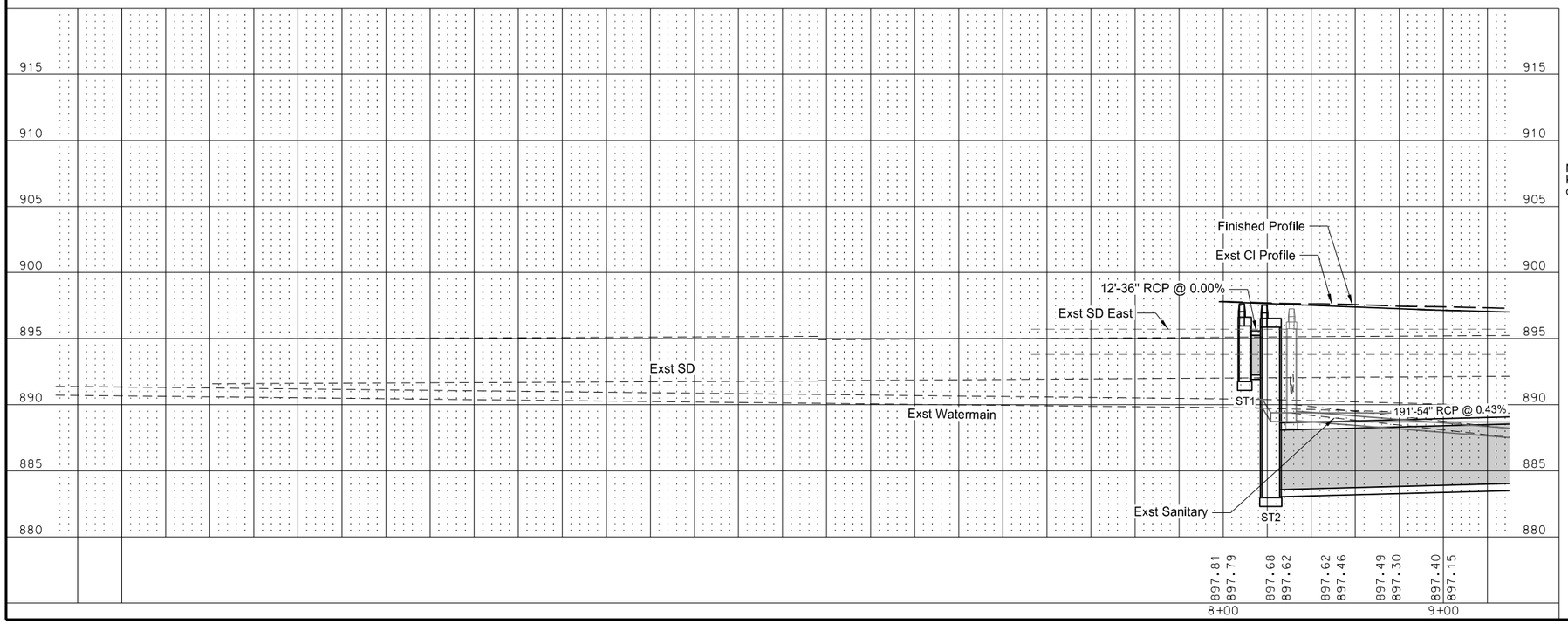
Sheyenne Street

Inlet and Manhole Summary

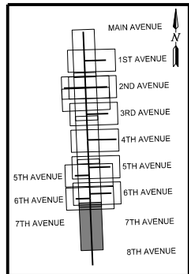
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	1

SPEC	CODE	BID ITEM	QTY	UNIT
714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN		
		ST1 to ST2	12	LF
714	1212	PIPE CONC REINF 54IN CL III-STORM DRAIN		
		ST2 to Sta 9+00 8.43' Rt	77	LF
722	0110	MANHOLE 60IN		
		ST1	1	EA
722	0140	MANHOLE 96IN		
		ST2	1	EA
722	1110	MANHOLE RISER 60IN		
		ST1	4.0	LF
722	1140	MANHOLE RISER 96IN		
		ST2	12.6	LF





NOTE:
Keep manhole castings out of wheel path.



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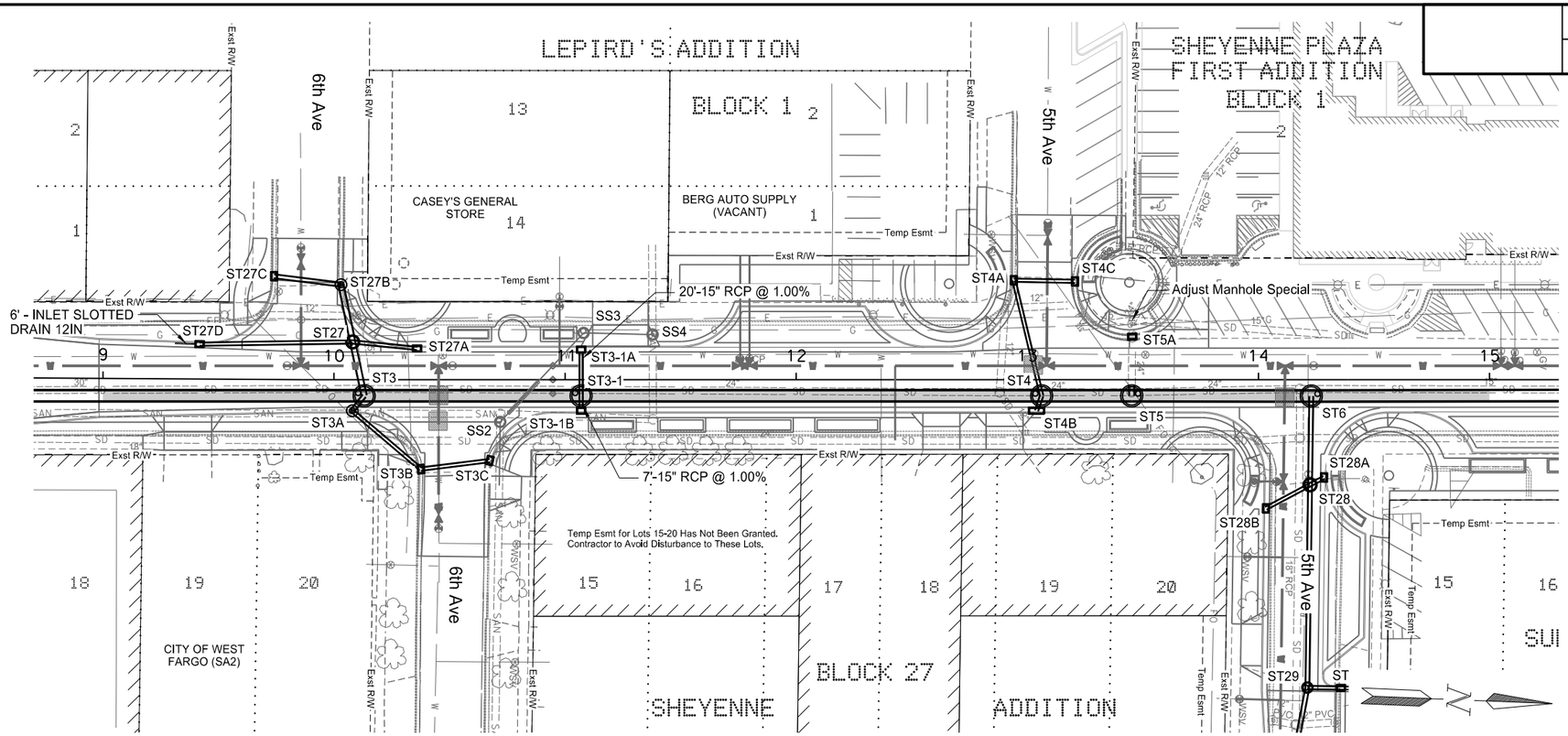
Sheyenne Street

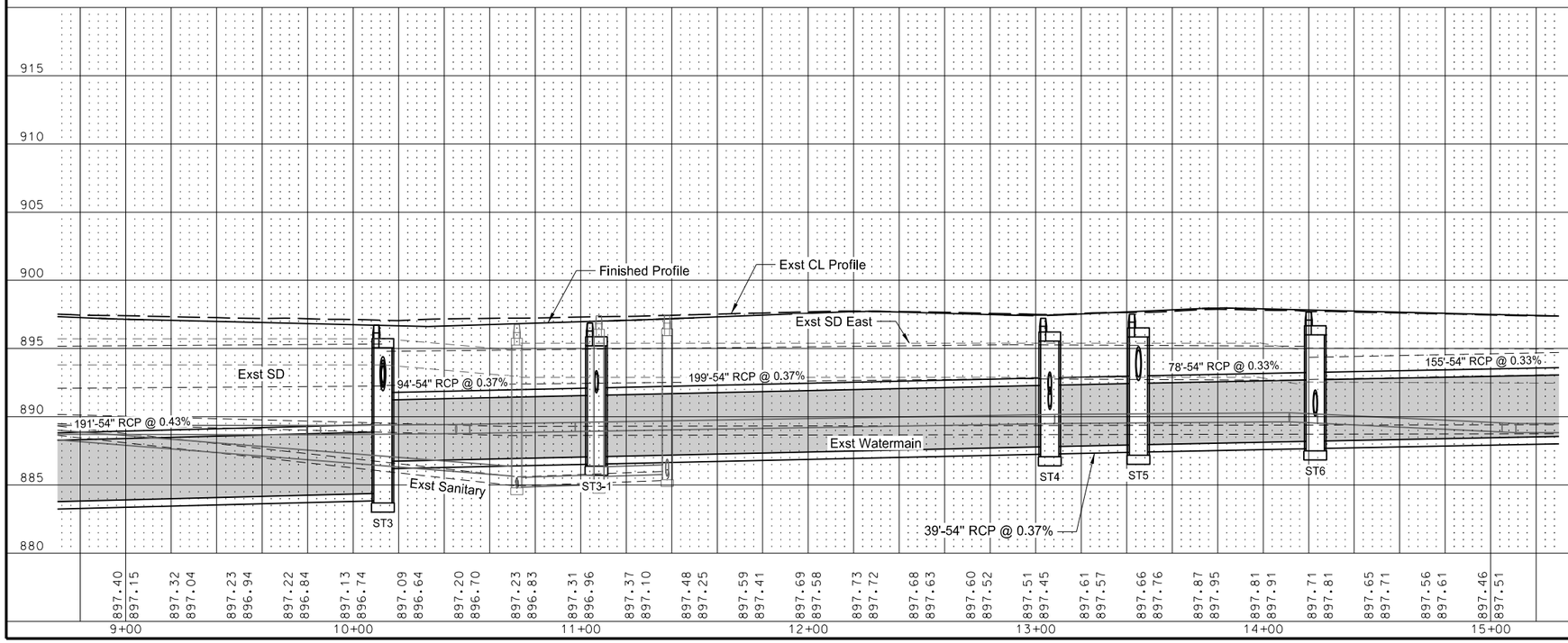
Drainage Layout

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

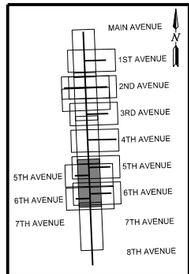
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	2

SPEC	CODE	BID ITEM	QTY UNIT
714	0210	PIPE CONC REINF 15IN CL-III STORM DRAIN	
		ST3-1A to ST3-1	20 LF
		ST3-1 to ST3-1B	7 LF
714	1212	PIPE CONC REINF 54IN CL-III STORM DRAIN	
		Sta 9+00 8.43' Rt to ST3	114 LF
		ST3 to ST3-1	94 LF
		ST3-1 to ST4	199 LF
		ST4 to ST5	39 LF
		ST5 to ST6	78 LF
		ST6 to STA 15+00 7.72' Rt	76 LF
722	0140	MANHOLE 96IN	
		ST3, ST3-1, ST4, ST5, ST6	5 EA
722	1140	MANHOLE RISER 96IN	
		ST3, ST3-1, ST4, ST5, ST6	42.0 LF
722	3510	INLET-TYPE 2	
		ST3-1A, ST3-1B, ST5A	3 EA





NOTE:
Keep manhole castings out of wheel path.



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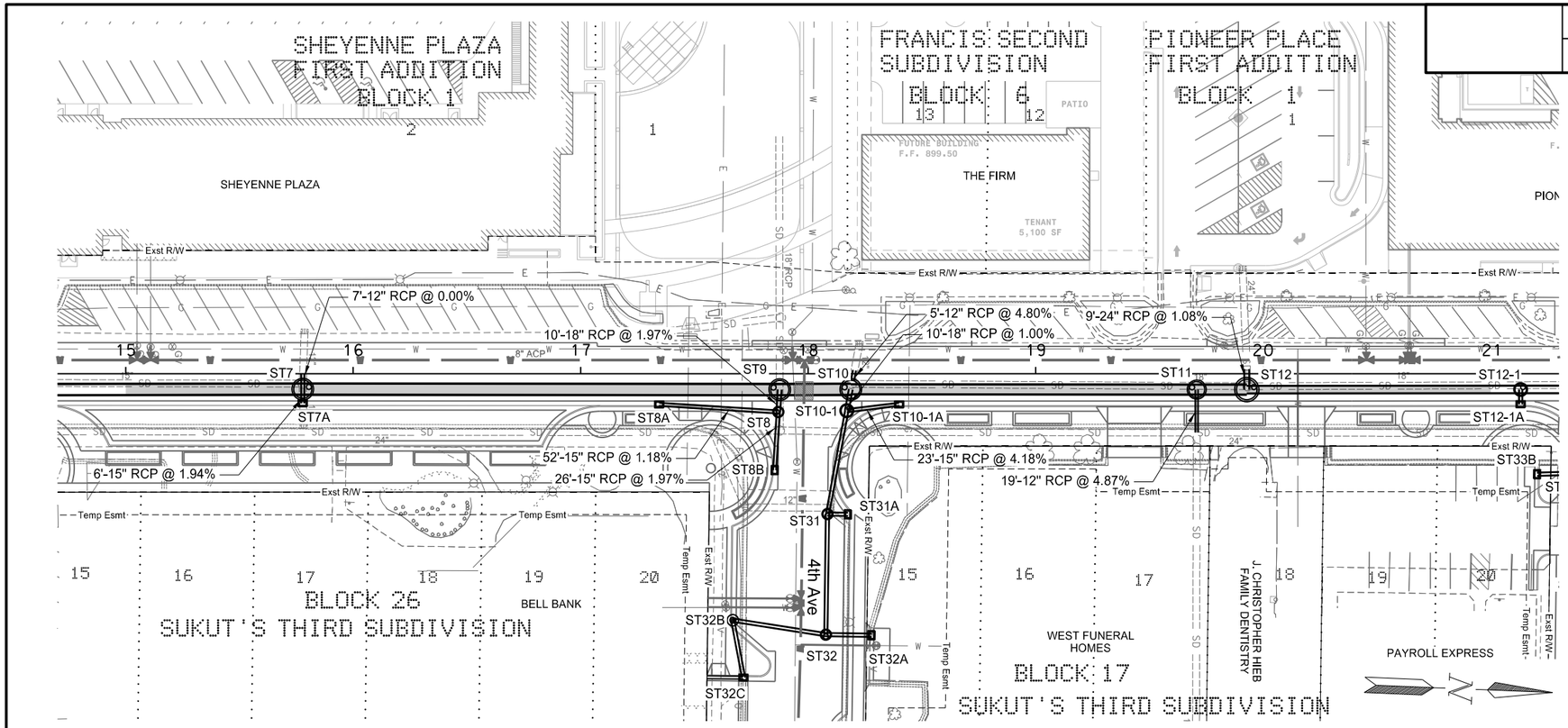
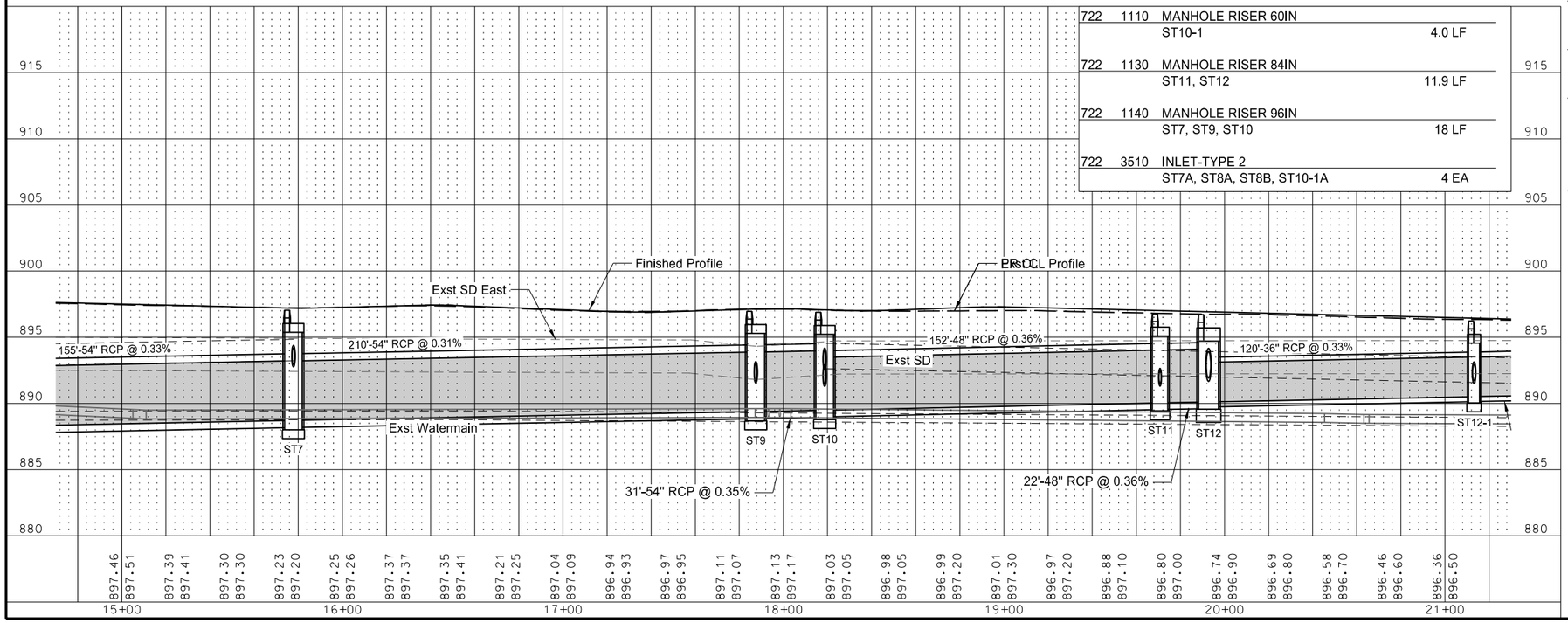
Sheyenne Street

Drainage Layout

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

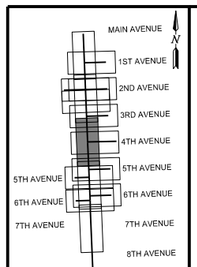
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	3





SPEC	CODE	BID ITEM	QTY UNIT
714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN	
		ST11 to Sta 19+76 25.5' Rt	19 LF
		ST7 to 15+78 4.63' Rt	7 LF
		ST10 to Sta 18+19 1.98' Rt	7 LF
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	
		ST7 to ST7A	6 LF
		ST8 to ST8A	52 LF
		ST8 to ST8B	26 LF
		ST10-1 to ST10-1A	23 LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	
		ST8 to ST9	10 LF
		ST10 to ST10-1	10 LF
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	
		ST12 to Sta 19+98.24 0.5' Lt	9 LF
714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN	
		ST12 to Sta 21+00 7.5' Rt	107 LF
714	1110	PIPE CONC REINF 48IN CL III-STORM DRAIN	
		ST10 to ST11	152 LF
		ST11 to ST12	22 LF
714	1212	PIPE CONC REINF 54IN CL-III STORM DRAIN	
		STA 15+00 7.72' Rt to ST7	79 LF
		ST7 to ST9	210 LF
		ST9 to ST10	31 LF
722	0100	MANHOLE 48IN	
		ST8	1 EA
722	0110	MANHOLE 60IN	
		ST10-1	1 EA
722	0130	MANHOLE 84IN	
		ST11, ST12	2 EA
722	0140	MANHOLE 96IN	
		ST7, ST9, ST10	3 EA
722	1100	MANHOLE RISER 48IN	
		ST8	4.0 LF
722	1110	MANHOLE RISER 60IN	
		ST10-1	4.0 LF
722	1130	MANHOLE RISER 84IN	
		ST11, ST12	11.9 LF
722	1140	MANHOLE RISER 96IN	
		ST7, ST9, ST10	18 LF
722	3510	INLET-TYPE 2	
		ST7A, ST8A, ST8B, ST10-1A	4 EA

NOTE:
Keep manhole castings out of wheel path.



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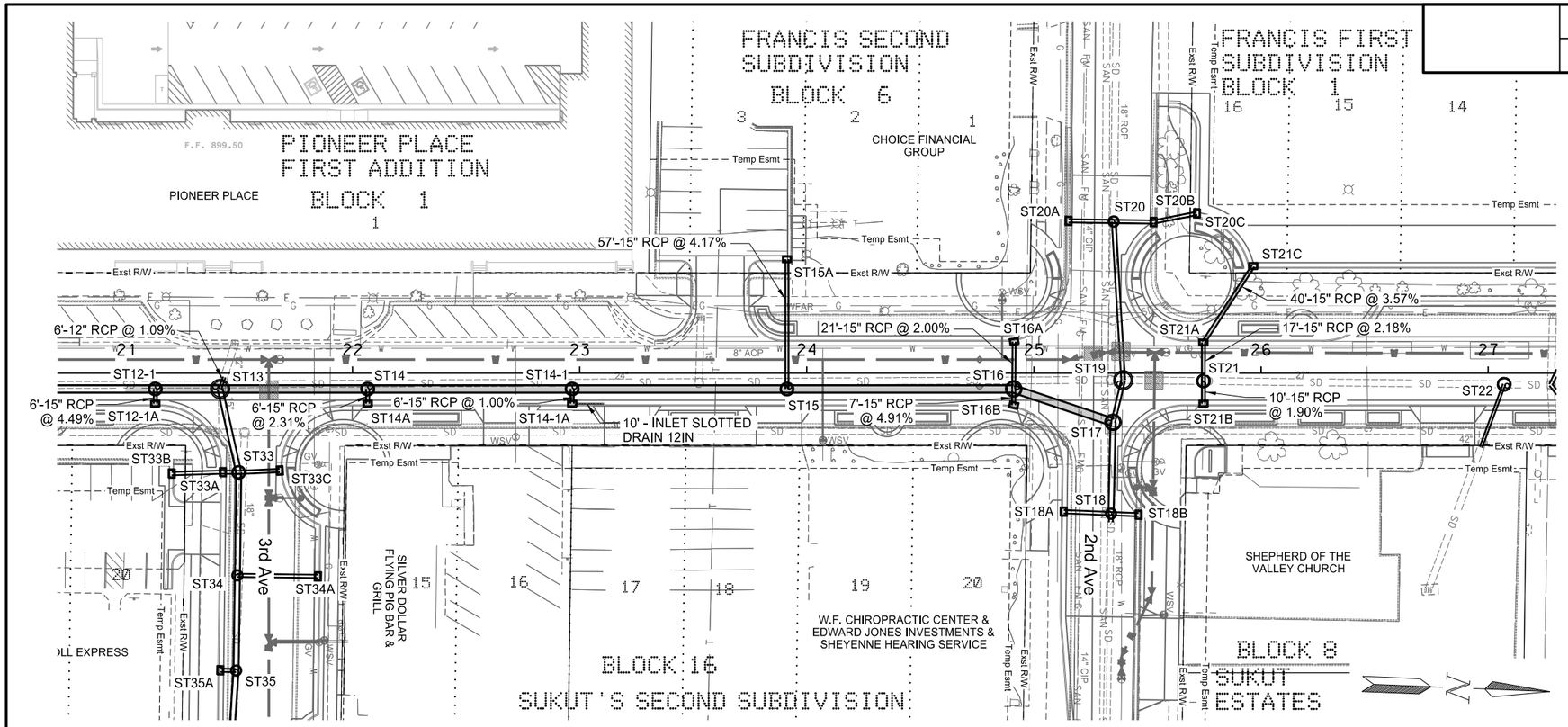
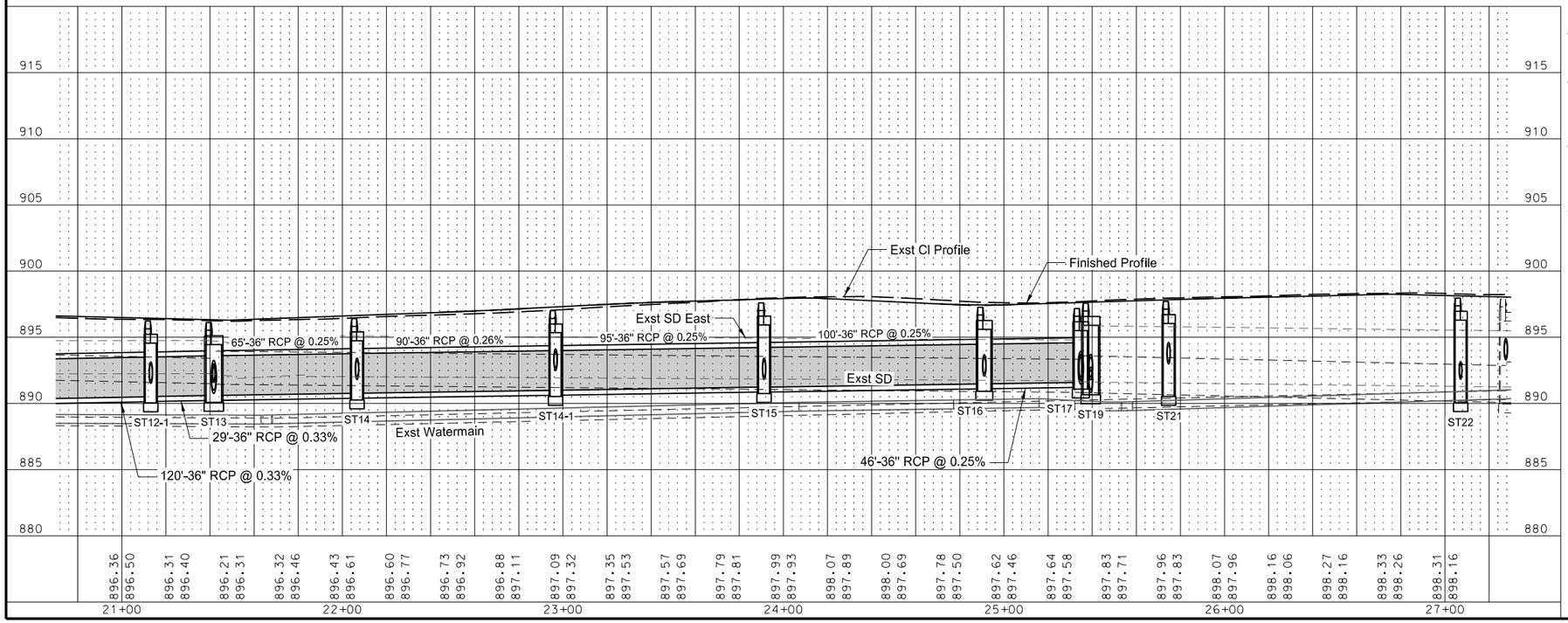
Sheyenne Street

Drainage Layout

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

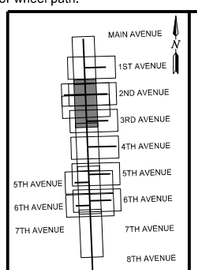
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	4





SPEC	CODE	BID ITEM	QTY	UNIT
714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN		
		ST13 to 21+43.5	6	LF
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST12-1 to ST12-1A	6	LF
		ST14 to ST14A	6	LF
		ST14-1 to ST14-1A	6	LF
		ST15 to ST15A	57	LF
		ST16 to ST16A	21	LF
		ST16 to ST16B	7	LF
		ST21C to ST21A	40	LF
		ST21A to ST21	17	LF
		ST21 to ST21B	10	LF
714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN		
		Sta 21+00 7.5' Rt to ST12-1	13	LF
		ST12-1 to ST13	29	LF
		ST13 to ST14	65	LF
		ST14 to ST14-1	90	LF
		ST14-1 to ST15	95	LF
		ST15 to ST16	100	LF
		ST16 to ST17	46	LF
722	0110	MANHOLE 60IN		
		ST12-1, ST14, ST14-1, ST15, ST21	5	EA
722	0120	MANHOLE 72IN		
		ST16, ST17	2	EA
722	0130	MANHOLE 84IN		
		ST13	1	EA
722	1110	MANHOLE RISER 60IN		
		ST12-1, ST14, ST14-1, ST15, ST21	22.0	LF
722	1120	MANHOLE RISER 72IN		
		ST16, ST17	8.0	LF
722	1130	MANHOLE RISER 84IN		
		ST13	4.0	LF
722	3510	INLET-TYPE 2		
		ST12-1A, St14A, ST14-1A, ST15A, ST16A ST16B, ST21A, ST21B, ST21C	9	EA
722	3900	INLET SLOTTED DRAIN 12IN		
		14-1A	10	LF

NOTE:
Keep manhole castings out of wheel path.



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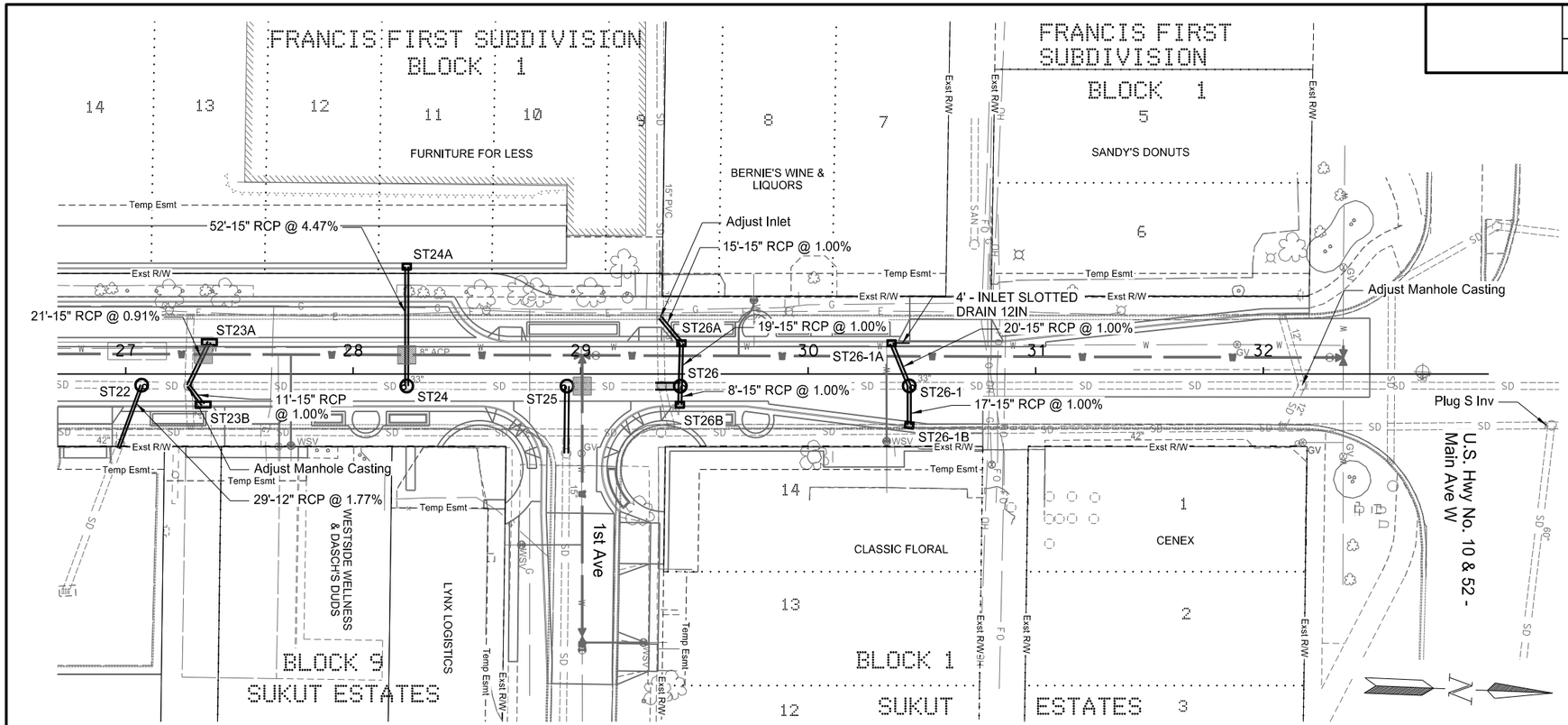
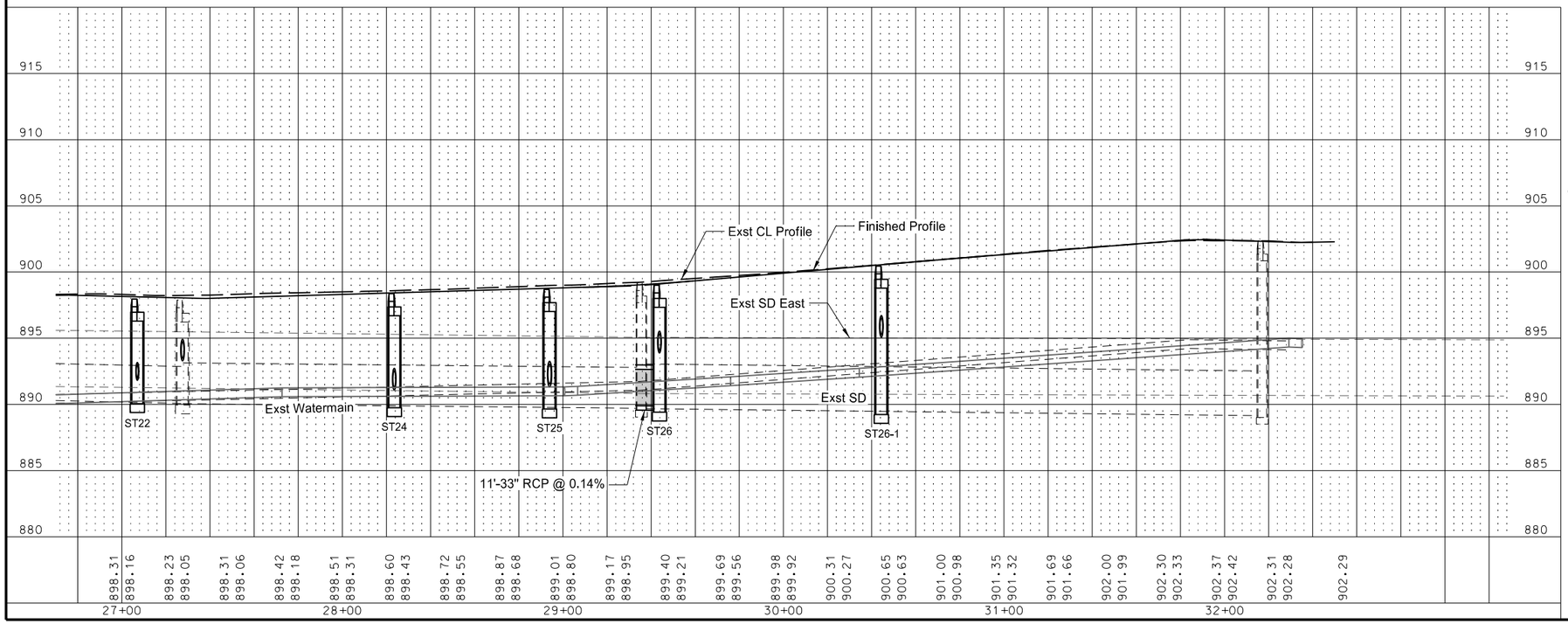
Sheyenne Street

Drainage Layout

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

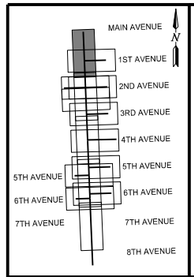
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	5





SPEC	CODE	BID ITEM	QTY	UNIT
714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN		
		ST22 to Sta 26+96.85 32.53' Rt	30	LF
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		Sta 27+28 5.1' Rt to ST23A	21	LF
		Sta 27+28 5.1' Rt to ST23B	11	LF
		ST24 to ST24A	52	LF
		Sta 29+35 24.7' Lt to ST26A	15	LF
		ST26A to ST26	19	LF
		ST26 to ST26B	8	LF
		ST26-1A to ST26-1	20	LF
		ST26-1 to ST26-1B	17	LF
714	0870	PIPE CONC REINF 33IN CLIII-STORM DRAIN		
		Sta 29+33 5.4' Rt to ST26	11	LF
722	0110	MANHOLE 60IN		
		ST22, ST24, ST26, ST26-1	4	EA
722	1110	MANHOLE RISER 60IN		
		ST22, ST24, ST26, ST26-1	28.5	LF
722	3510	INLET-TYPE 2		
		ST24A, ST26A, ST26B, ST26-1A, ST26-1	5	EA
722	3520	INLET-TYPE 2 DOUBLE		
		ST23A, ST23B	2	EA
722	3900	INLET SLOTTED DRAIN 12IN		
		26-1A	4	LF
722	6160	ADJUST INLET		
		Sta 29+35 24.7' Lt	1	EA

NOTE:
Keep manhole castings out of wheel path.



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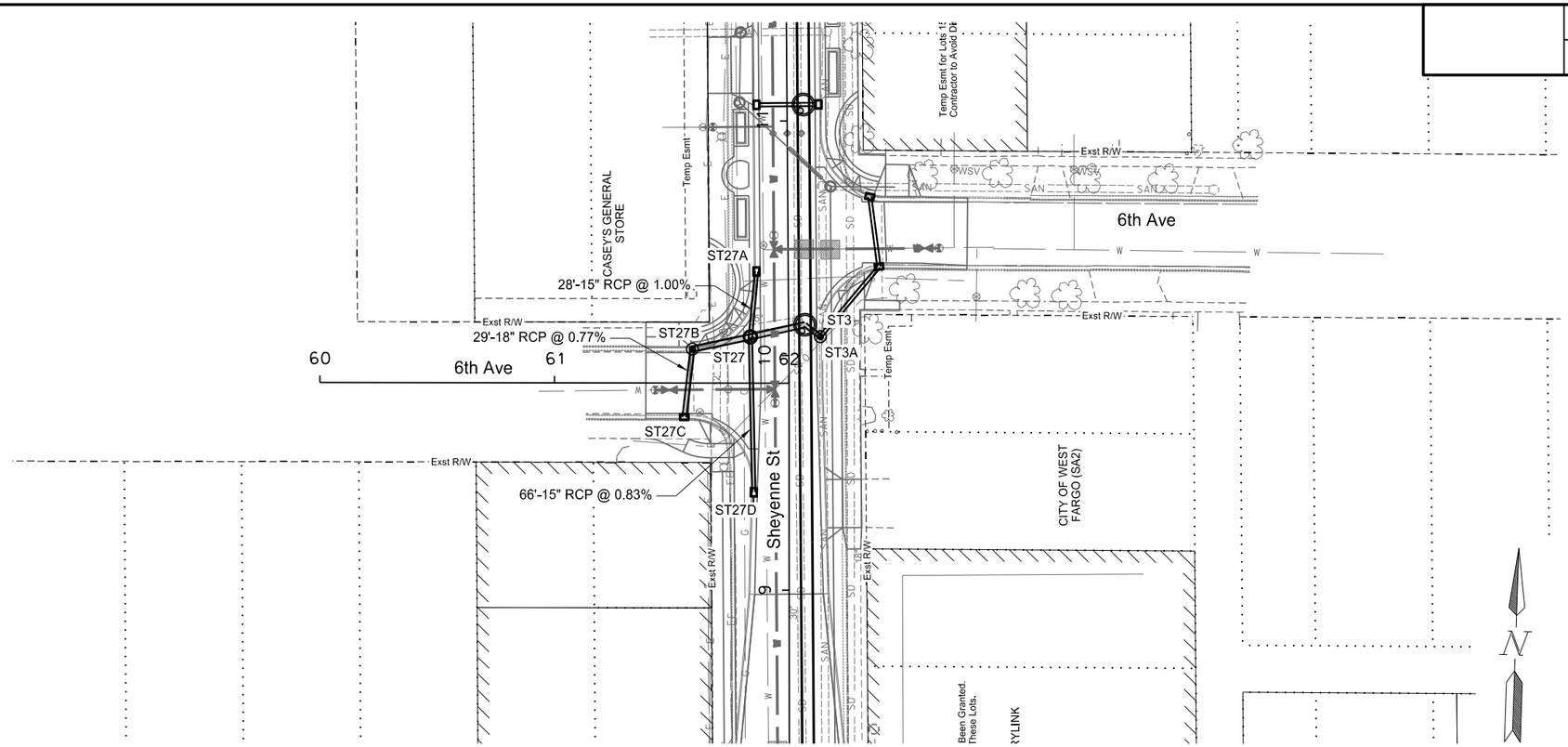
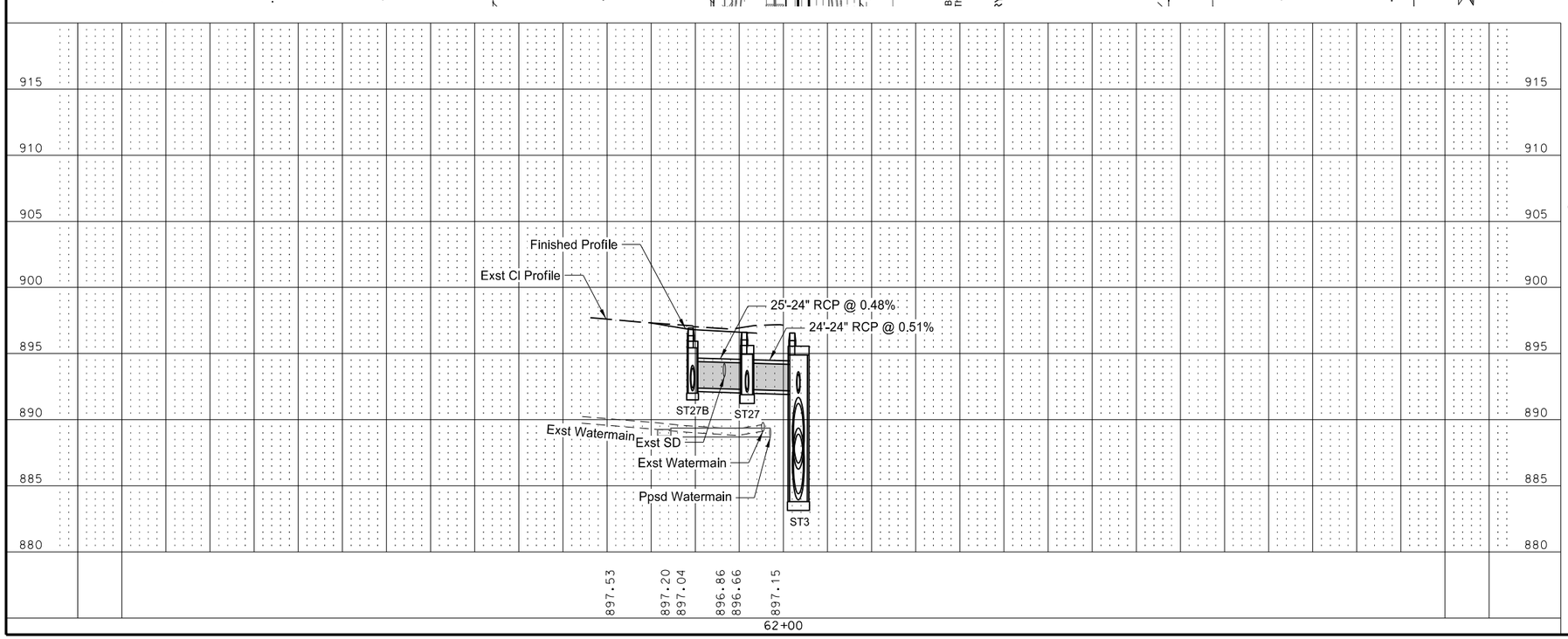
Sheyenne Street

Drainage Layout

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

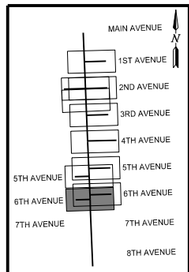
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	6





SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST27 to ST27A	28	LF
		ST27 to ST27D	66	LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN		
		ST27B to ST27C	29	LF
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN		
		ST3 to ST27	24	LF
		ST27 to ST27B	25	LF
722	0110	MANHOLE 60IN		
		ST27	1	EA
722	1110	MANHOLE RISER 60IN		
		ST27	4.0	LF
722	3510	INLET-TYPE 2		
		ST27A, ST27C, ST27D	3	EA
722	3701	INLET SPECIAL-TYPE 2 48IN		
		ST27B	1	EA
722	3900	INLET SLOTTED DRAIN 12IN		
		ST27D	6	LF

NOTE:
Keep manhole castings out of wheel path.



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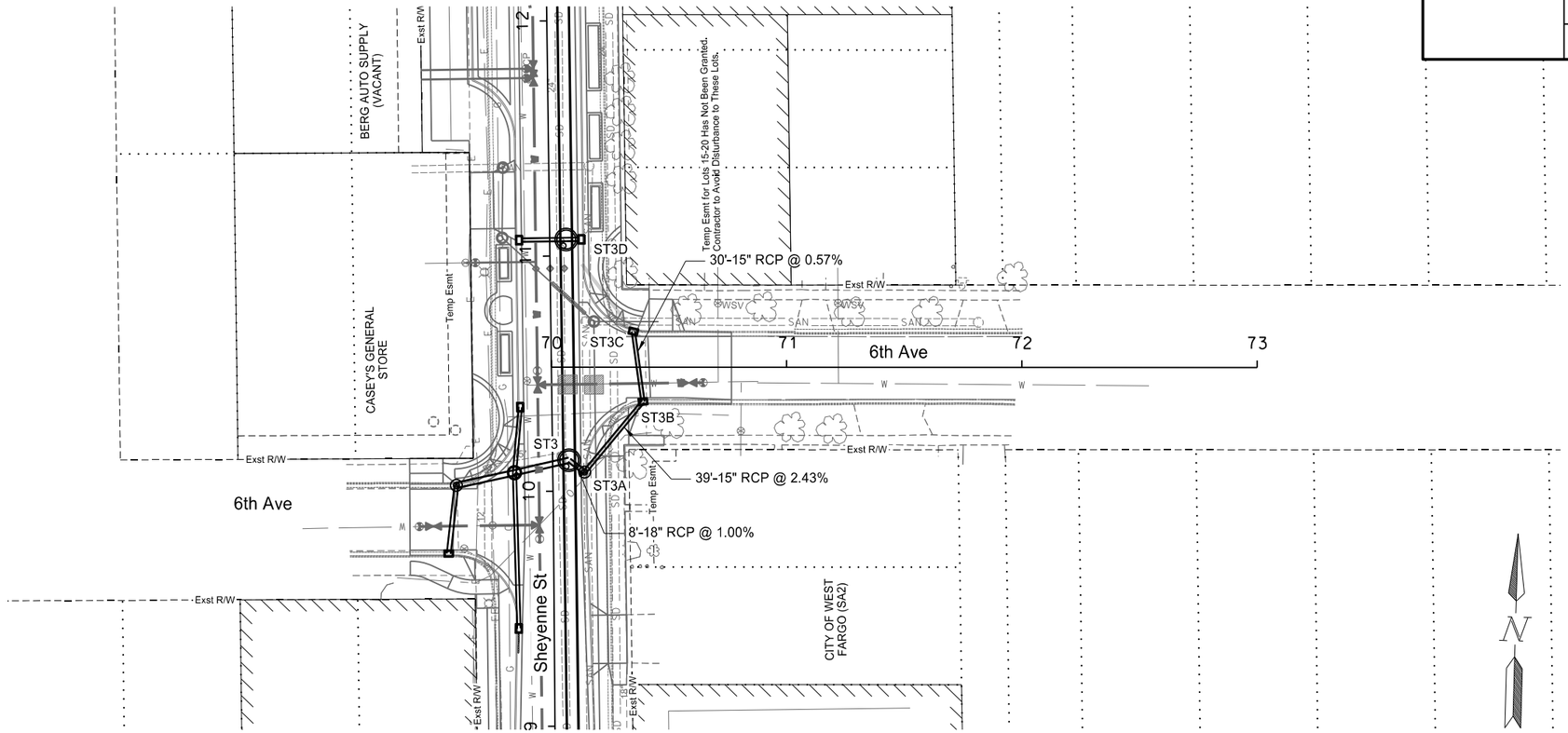
6th Avenue W

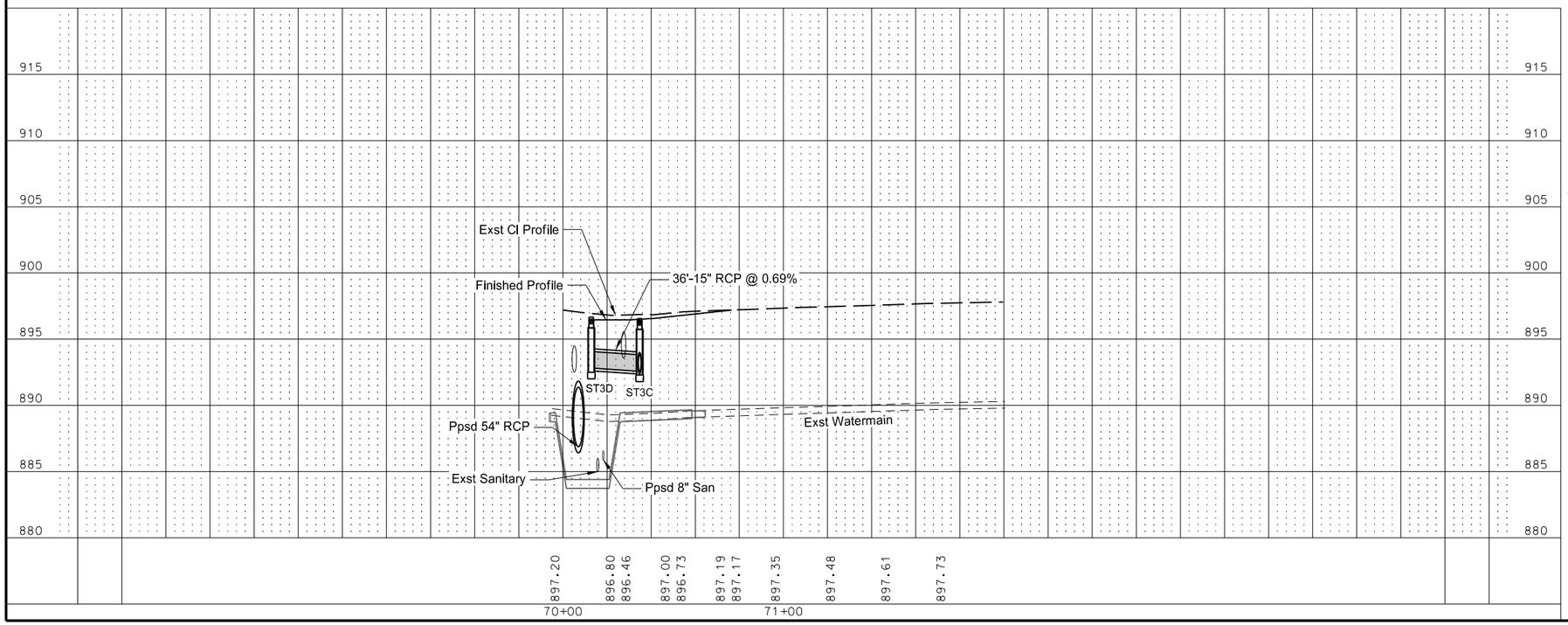
Drainage Layout

Sta 60+00 to Sta 62+00 (PR6TH_W)

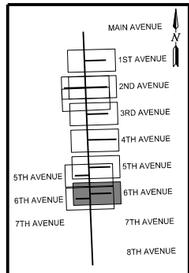
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	7

SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST3A to ST3B	39	LF
		ST3B to ST3C	30	LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN		
		ST3 TO ST3A	8	LF
722	3510	INLET-TYPE 2		
		ST3B, ST3C	2	EA
722	3701	INLET SPECIAL-TYPE 2 48IN		
		ST3A	1	EA





NOTE:
Keep manhole castings out of wheel path.



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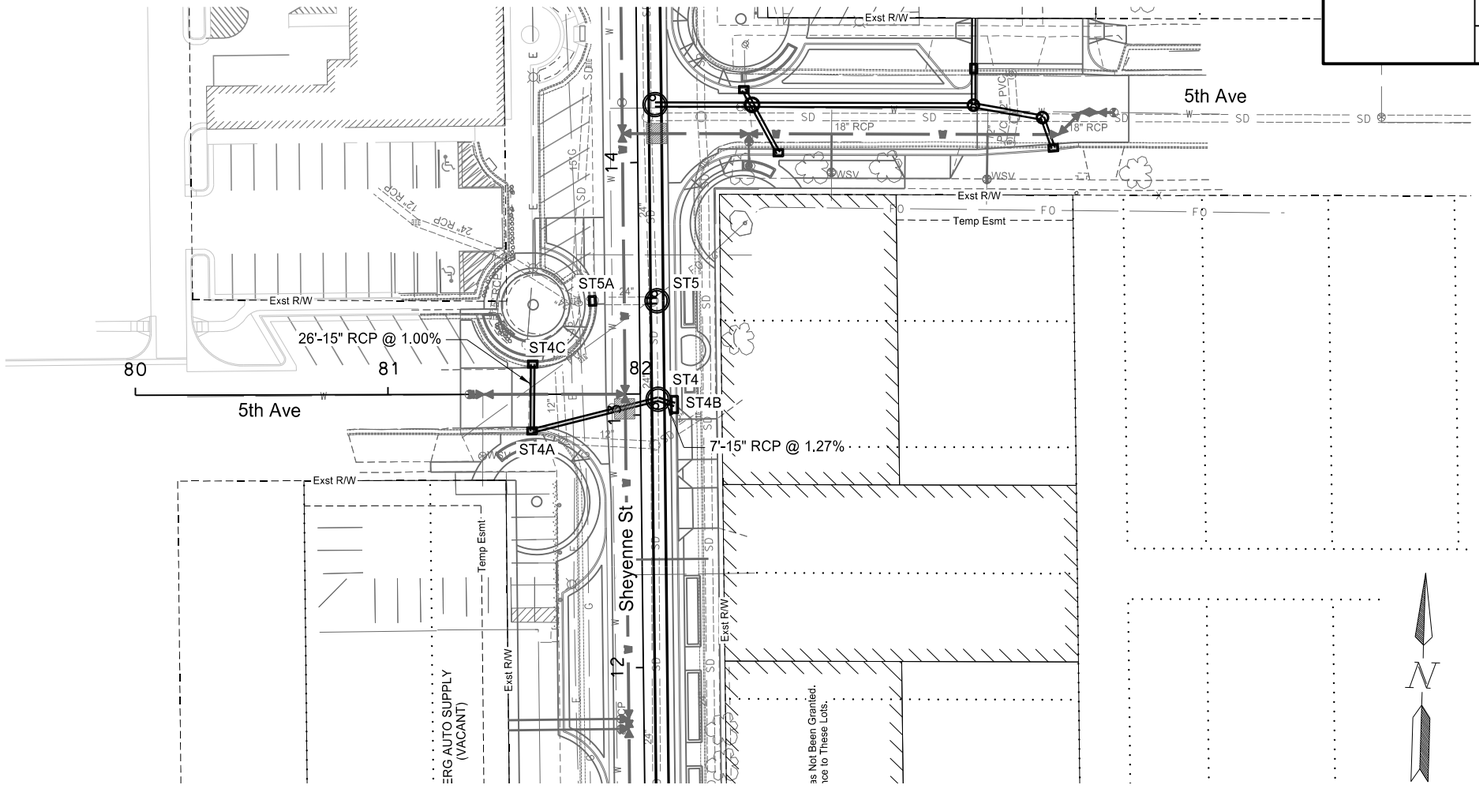
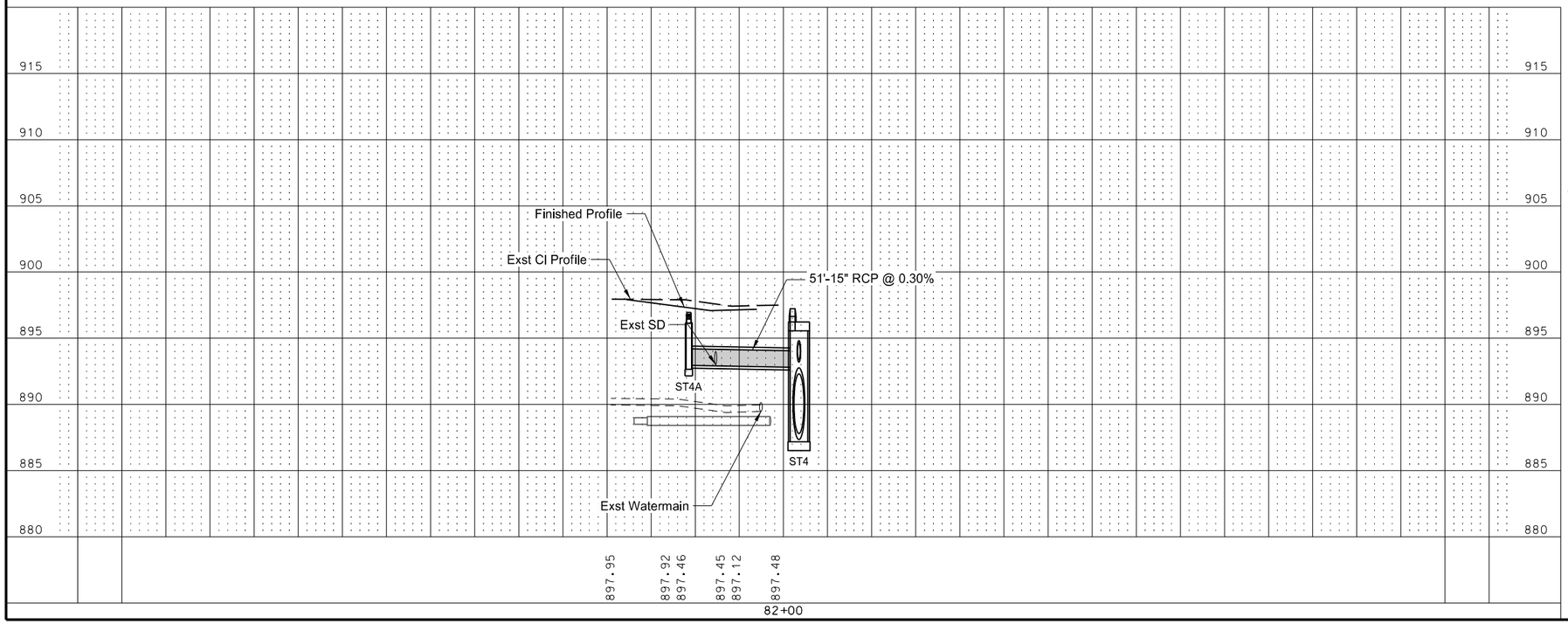
6th Avenue E

Drainage Layout

Sta 70+00 to Sta 72+00 (PR6TH_E)

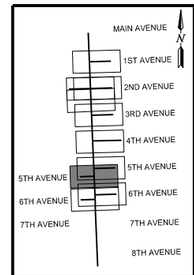
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	8





SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST4A to ST4C	26	LF
		ST4A to ST4	51	LF
		ST4 to ST4B	7	LF
722	3510	INLET-TYPE 2		
		ST4A, ST4C	2	EA
722	3520	INLET-TYPE 2 DOUBLE		
		ST4B	1	EA

NOTE:
Keep manhole castings
out of wheel path.



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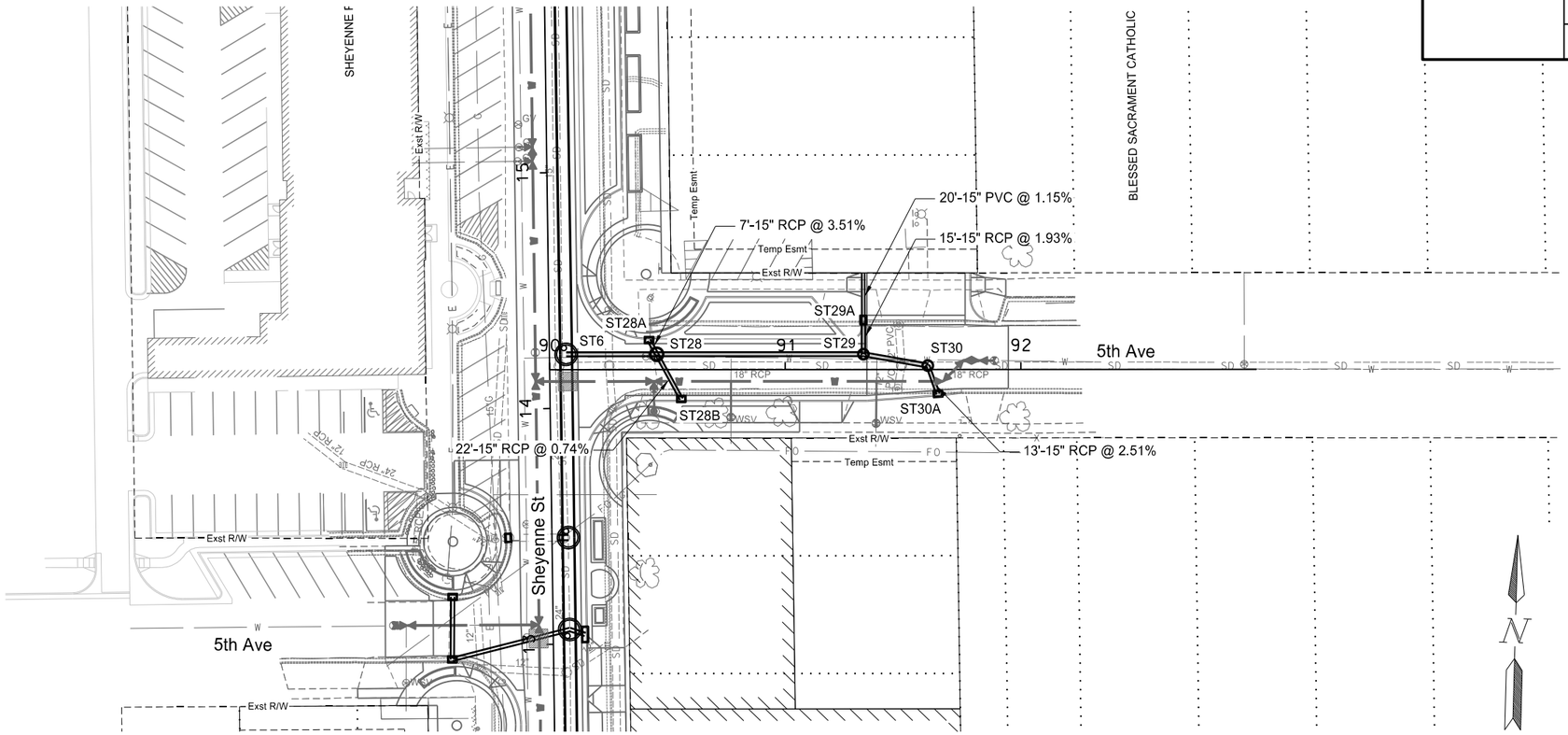
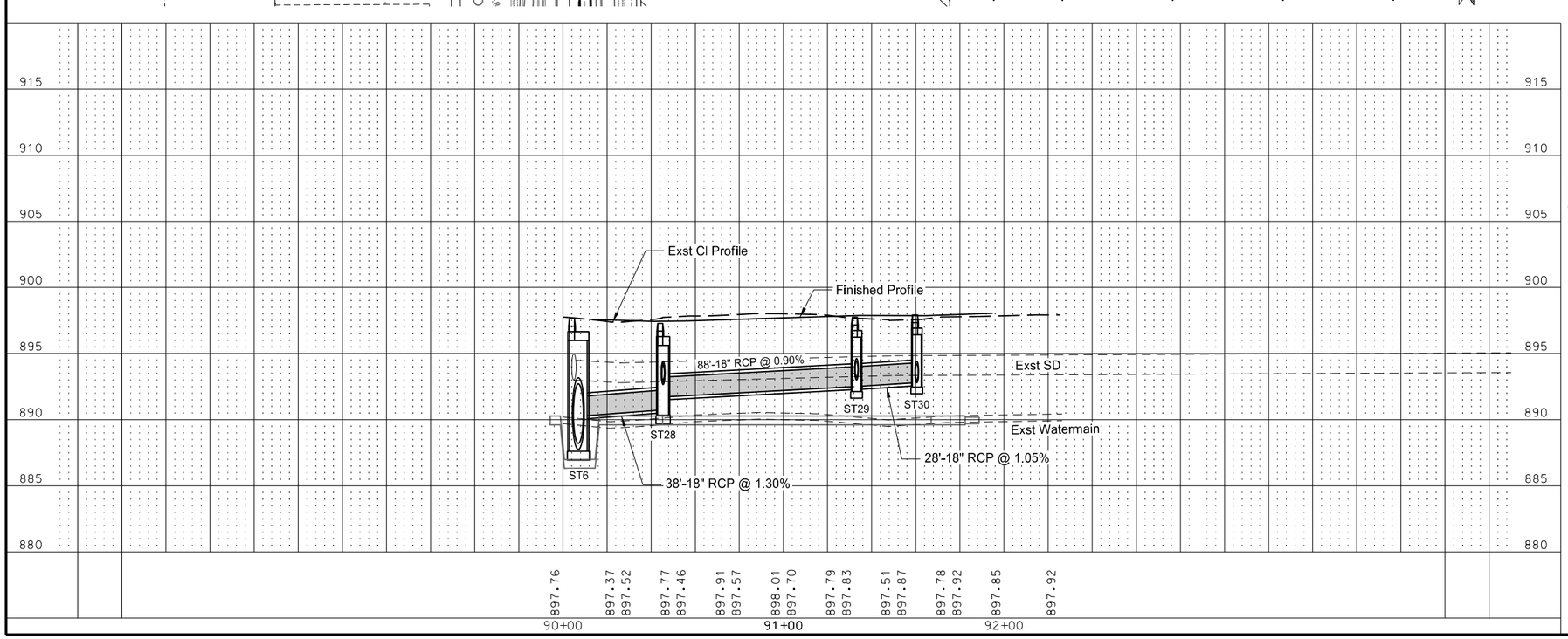
5th Avenue W

Drainage Layout

Sta 80+00 to Sta 82+00 (PR5TH_W)

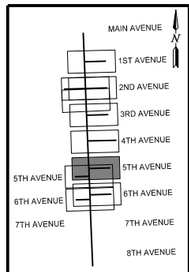
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	9





SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST28 to ST28A	7	LF
		ST28 to ST28B	22	LF
		ST29 to ST29A	15	LF
		ST30 to ST30A	13	LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN		
		ST6 to ST28	38	LF
		ST28 to ST29	88	LF
		ST29 to ST30	28	LF
714	7033	PIPE PVC 15IN		
		ST29A to Sta 91+33 41' Lt	20	LF
722	0100	MANHOLE 48IN		
		ST29, ST30	2	EA
722	0110	MANHOLE 60IN		
		ST28	1	EA
722	1100	MANHOLE RISER 48IN		
		ST29, ST30	8.0	LF
722	1110	MANHOLE RISER 60IN		
		ST28	4.62	LF
722	3510	INLET-TYPE 2		
		ST28A, ST28B, ST29A, ST30A	4	EA

NOTE:
Keep manhole castings out of wheel path.



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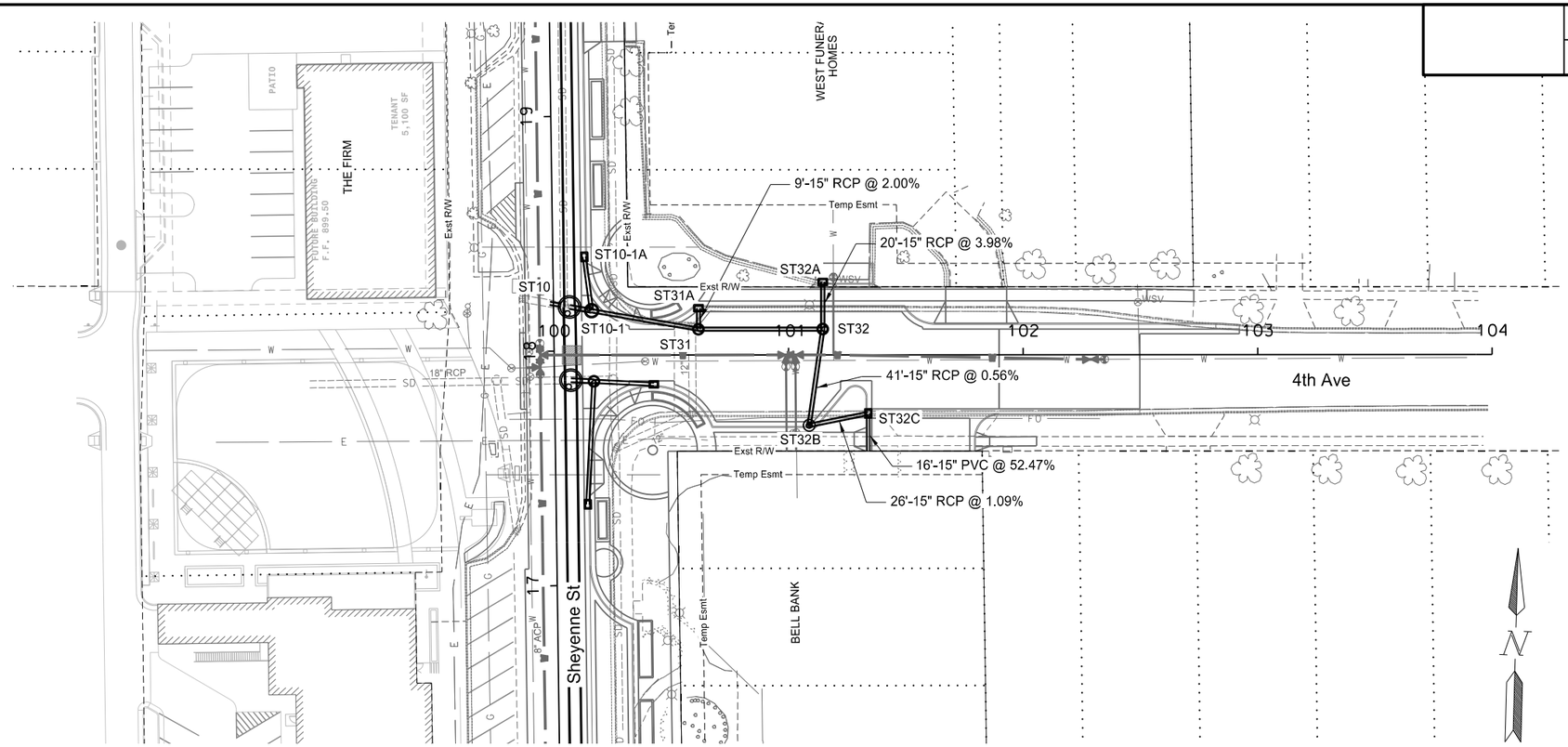
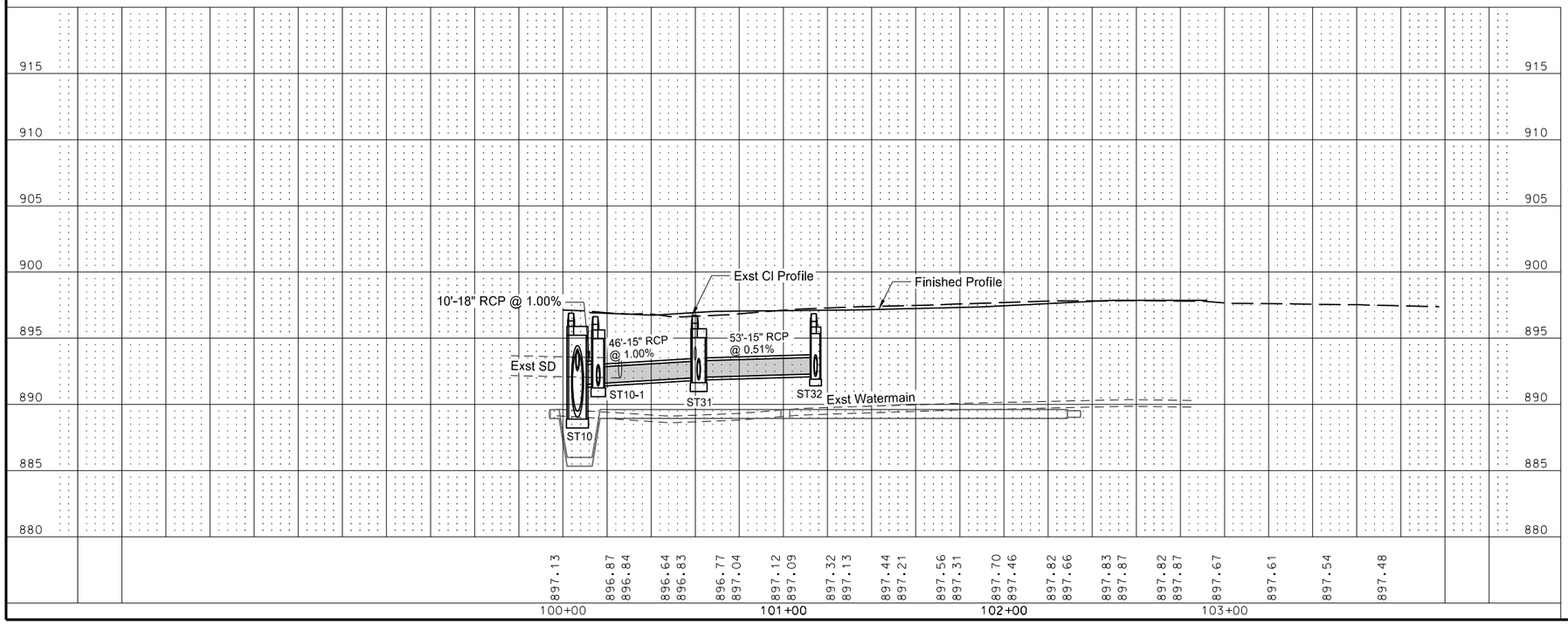
5th Avenue E

Drainage Layout

Sta 90+00 to Sta 92+00 (PR5TH_E)

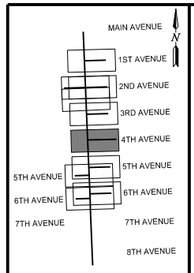
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	10





SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST10-1 to ST31	46	LF
		ST31 to ST32	53	LF
		ST31 to ST31A	9	LF
		ST32 to ST32A	20	LF
		ST32 to ST32B	41	LF
		ST32B to ST32C	26	LF
714	7033	PIPE PVC 15IN		
		ST32C to Sta 101+34 41.0' Rt	16	LF
722	0100	MANHOLE 48IN		
		ST31, ST32	2	EA
722	1100	MANHOLE RISER 48IN		
		ST31, ST32	8.0	LF
722	3510	INLET-TYPE 2		
		ST31A, ST32A, ST32C	3	EA
722	3701	INLET SPECIAL-TYPE 2 48IN		
		ST32B	1	EA

NOTE:
Keep manhole castings out of wheel path.



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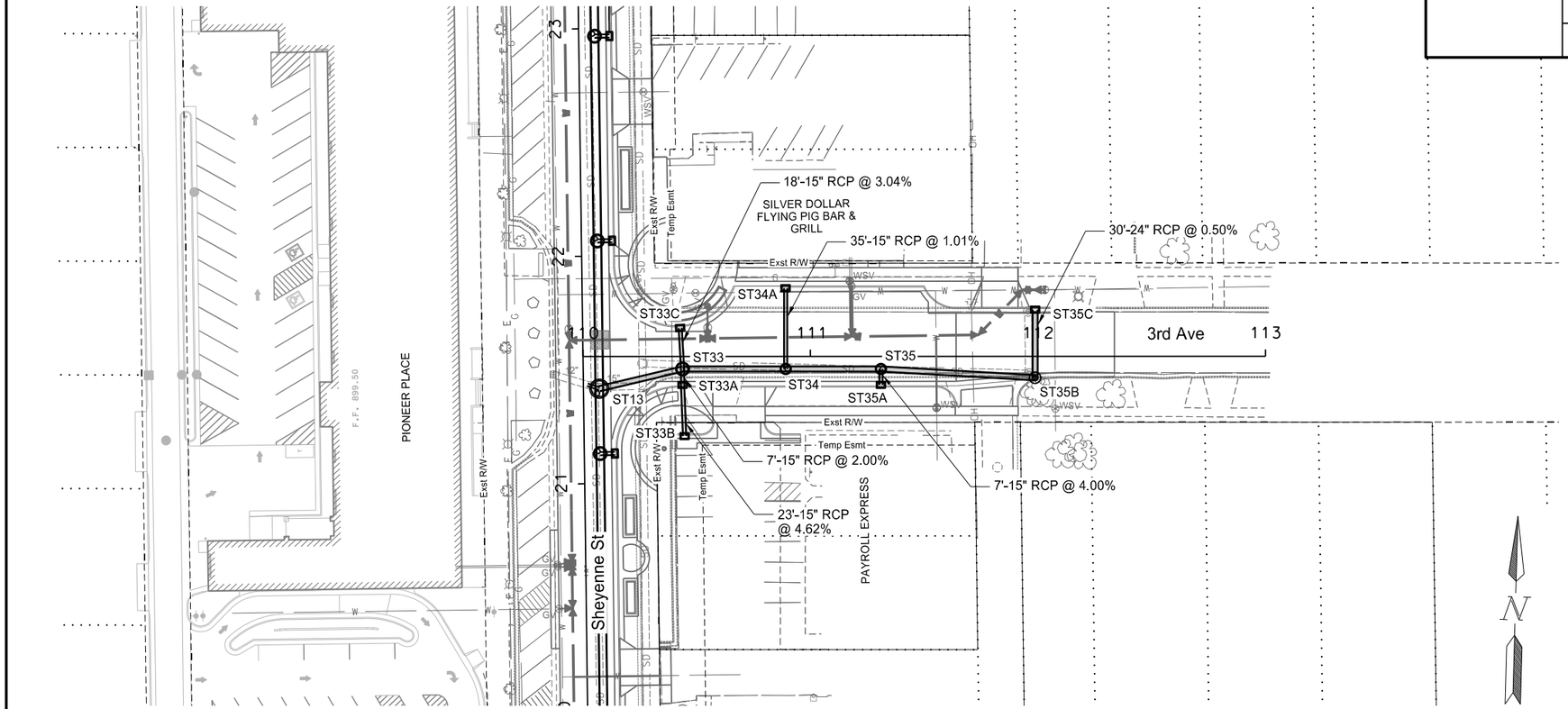
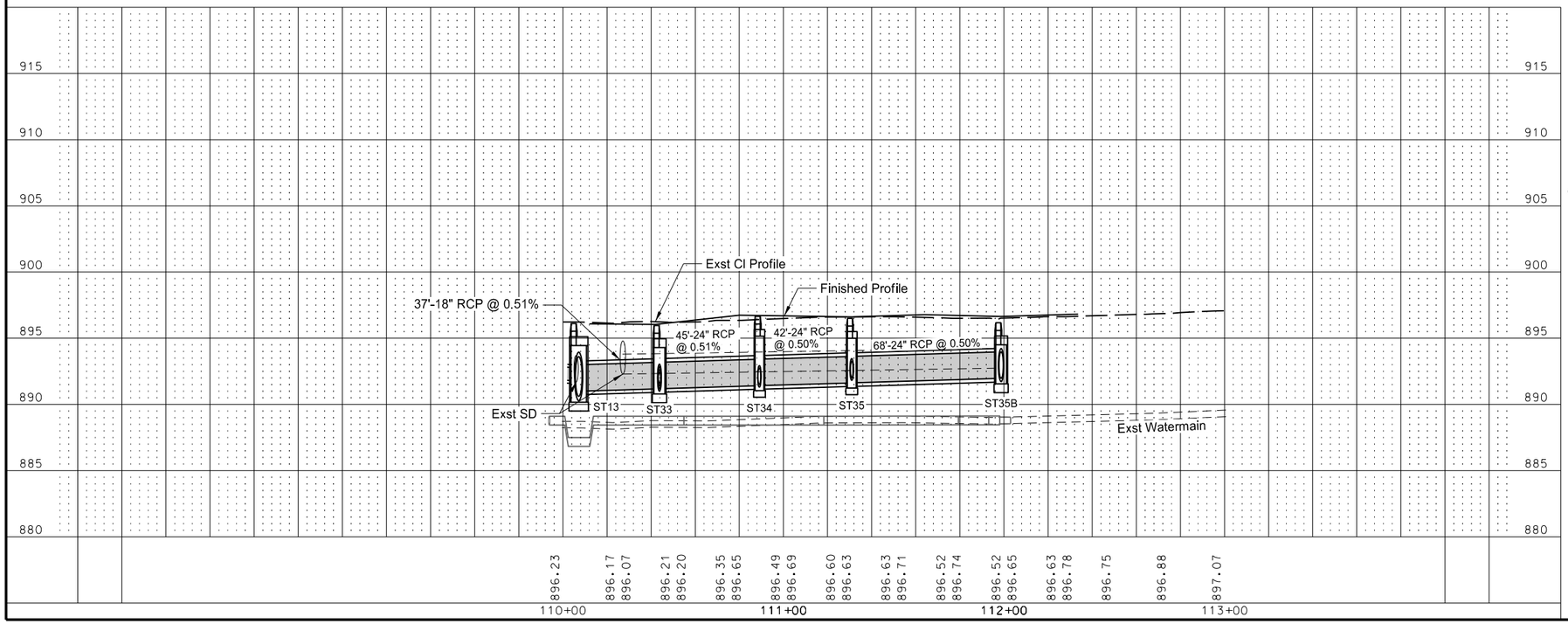
4th Avenue E

Drainage Layout

Sta 100+00 to Sta 103+00 (PR4TH)

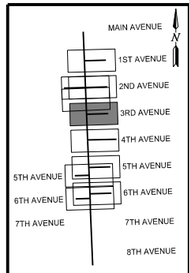
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	11





SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST33 to ST33A	7	LF
		ST33A to ST33B	23	LF
		ST33 to ST33C	18	LF
		ST34 to ST34A	35	LF
		ST35 to ST35A	7	LF
714	0620	PIPE CONC REINF 24IN CL-III STORM DRAIN		
		ST13 to ST33	37	LF
		ST33 to ST34	45	LF
		ST34 to ST35	42	LF
		ST35 to ST35B	68	LF
		ST35B to ST35C	30	LF
722	0100	MANHOLE 48IN		
		ST34, ST35	2	EA
722	0110	MANHOLE 60IN		
		ST33	1	EA
722	1100	MANHOLE RISER 48IN		
		ST34, ST35	8.0	LF
722	1110	MANHOLE RISER 60IN		
		ST33	4.0	LF
722	3510	INLET-TYPE 2		
		ST33A, ST33B, ST33C, ST34A, ST35A, ST35C	6	EA
722	3761	INLET SPECIAL-TYPE 2 60IN		
		ST35B	1	EA

NOTE:
Keep manhole castings out of wheel path.



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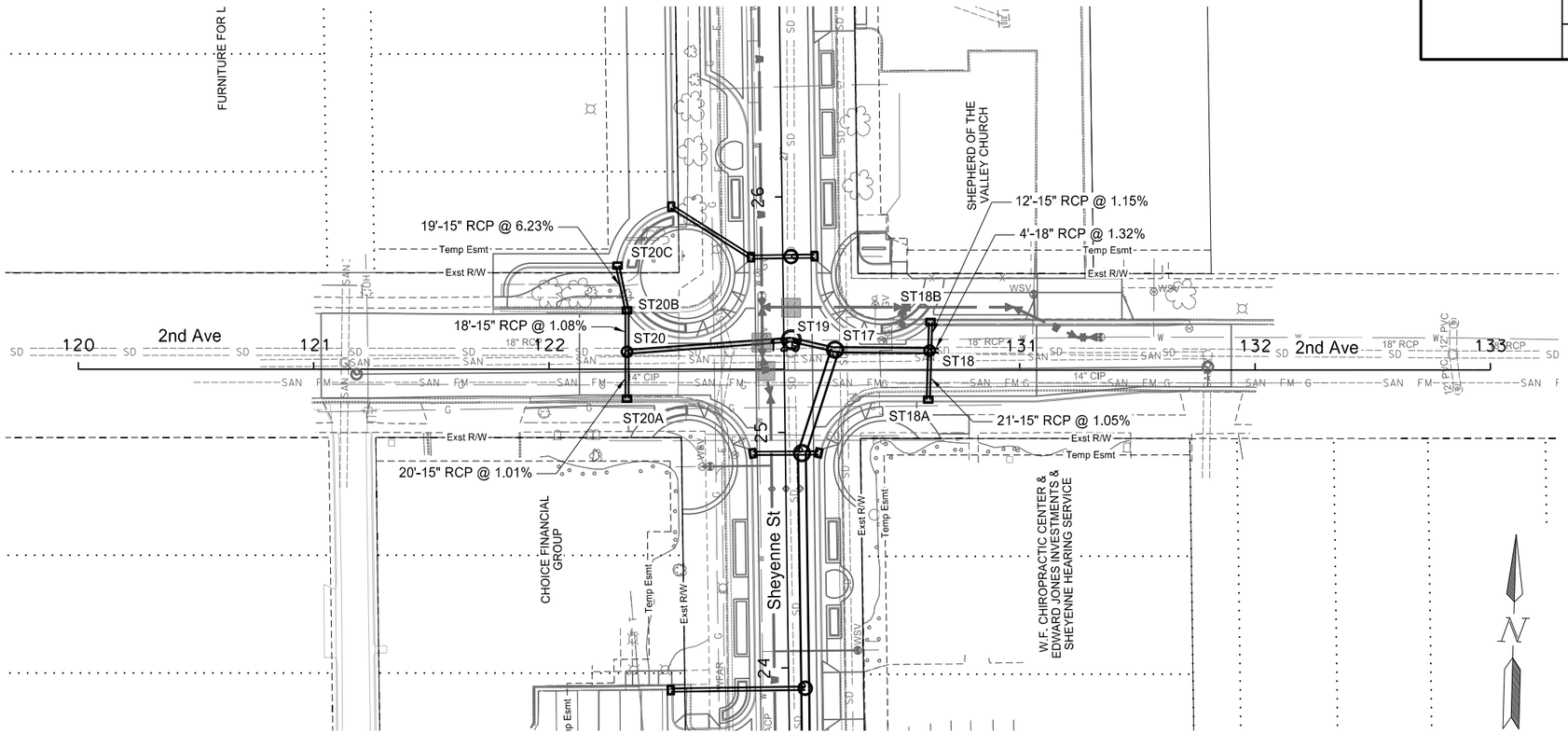
3rd Avenue E

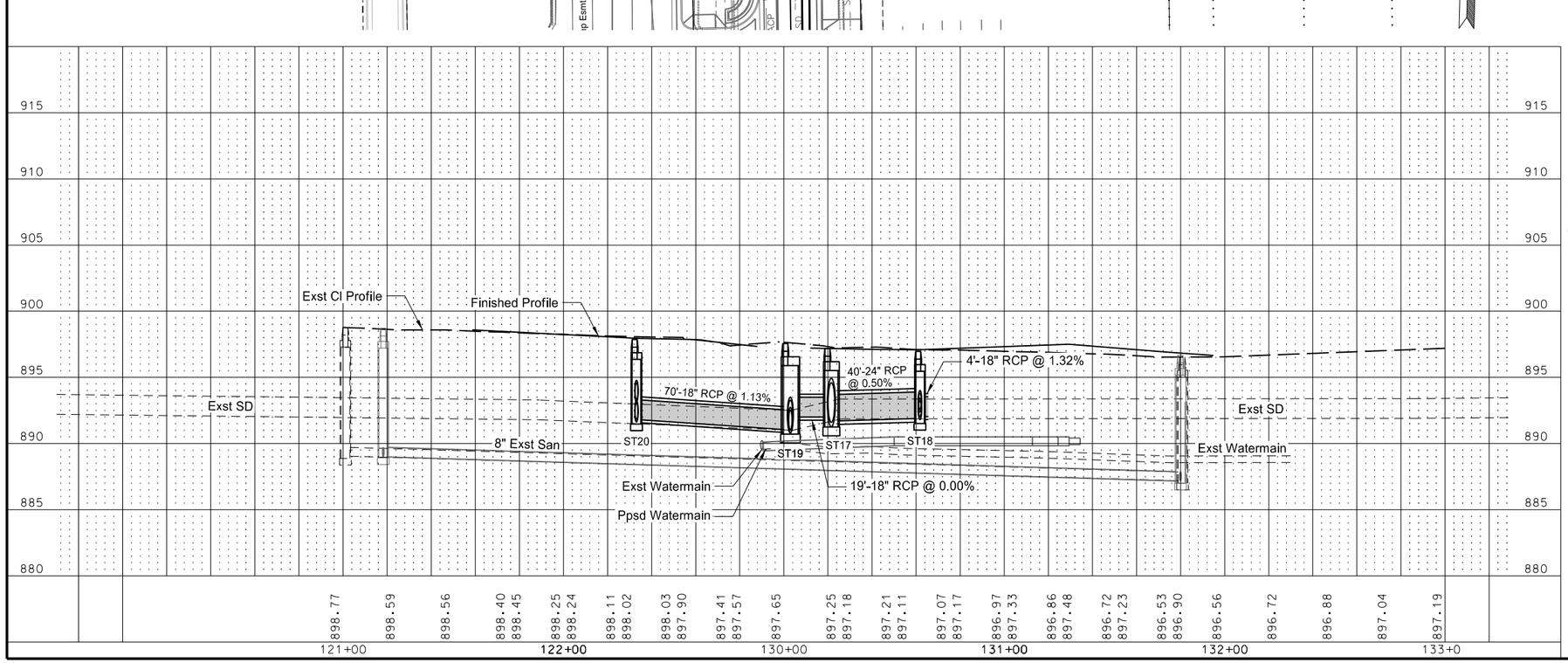
Drainage Layout

Sta 110+00 to Sta 113+00 (PR3RD)

8/15/2020 4:32:08 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\055DL_011_3rd Ave E_Storm.dgn

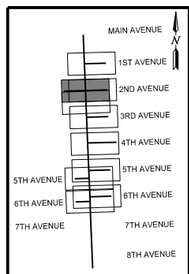
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	12





SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST18 to ST18A	21	LF
		ST18 to ST18B	12	LF
		ST20 to ST20A	20	LF
		ST20 to ST20B	18	LF
		ST20B to ST20C	19	LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN		
		ST18 to Sta 130+66 8.4'L	4	LF
		ST17 to ST19	19	LF
		ST19 to ST20	70	LF
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN		
		ST17 to ST18	40	LF
714	9910	FLAP GATE 18IN		
		ST19	1	EA
722	0100	MANHOLE 48IN		
		ST18, ST20	2	EA
722	0130	MANHOLE 84IN		
		ST19	1	EA
722	1100	MANHOLE RISER 48IN		
		ST18, ST20	11.0	LF
722	1130	MANHOLE RISER 84IN		
		ST19	4.7	LF
722	3510	INLET-TYPE 2		
		ST18A, ST18B, ST20A, ST20B, ST20C	5	EA

NOTE:
Keep manhole castings out of wheel path.



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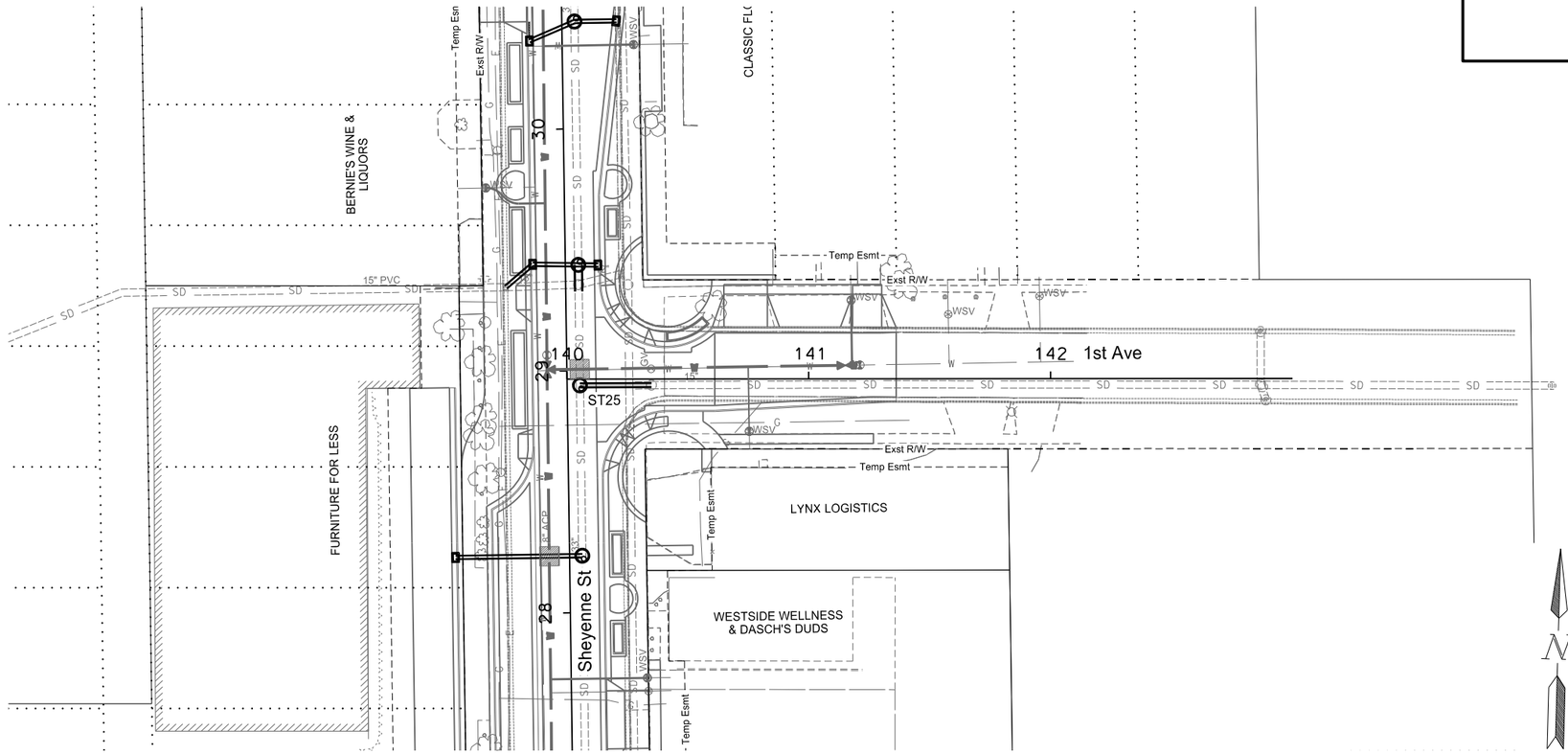
2nd Avenue W

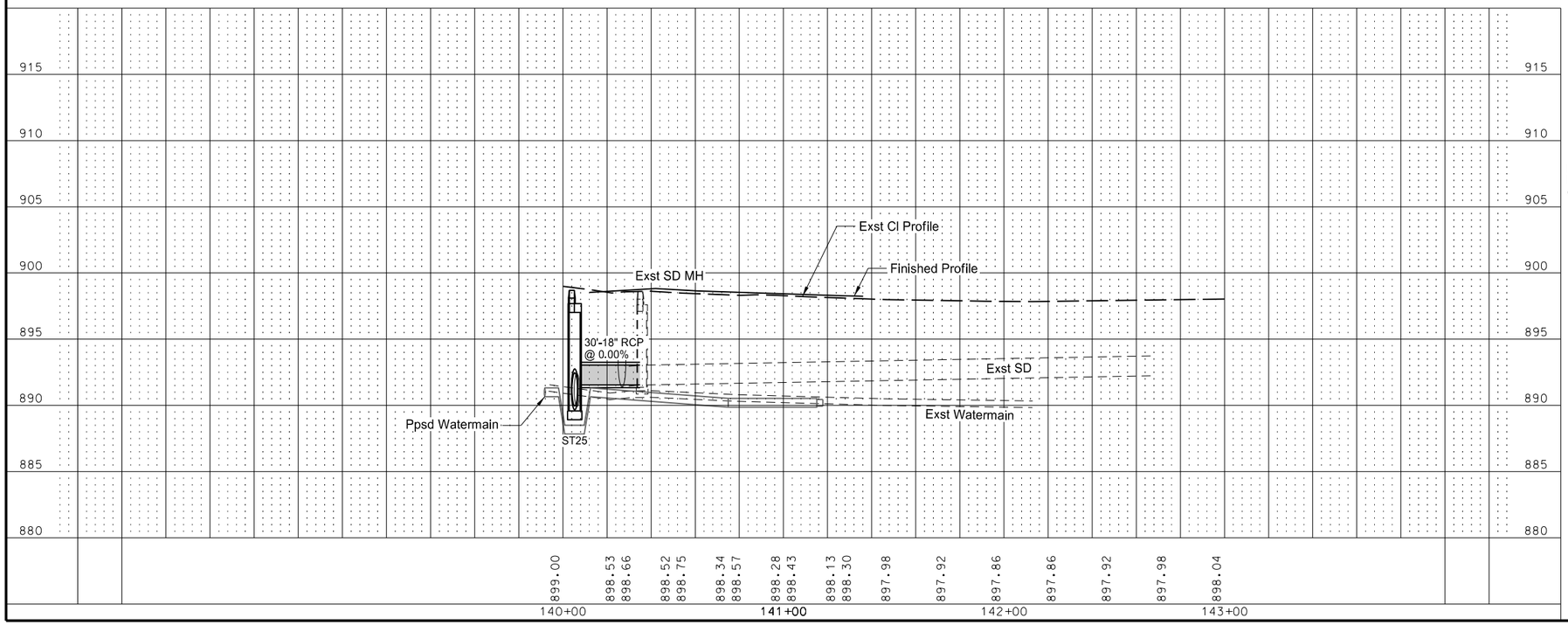
Drainage Layout

Sta 120+00 to Sta 122+00 (PR2ND_W)

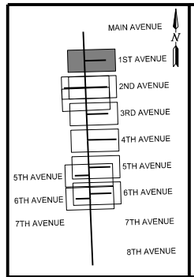
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	55	13

SPEC	CODE	BID ITEM	QTY	UNIT
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN ST25 to Sta 28+94 35.3' Rt	30	LF
722	0110	MANHOLE 60IN ST25	1	EA
722	1110	MANHOLE RISER 60IN ST25	6.9	LF





NOTE:
Keep manhole castings out of wheel path.



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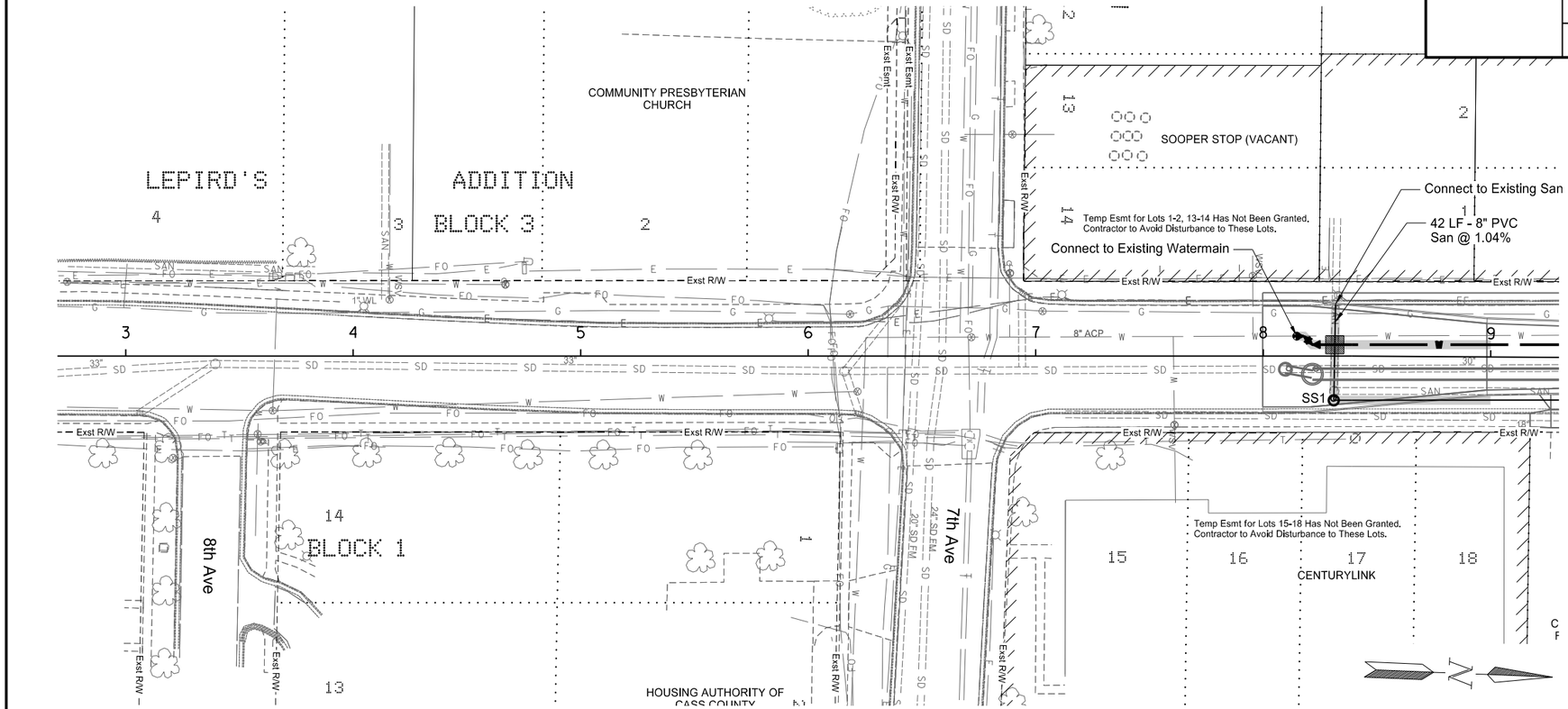
1st Avenue E

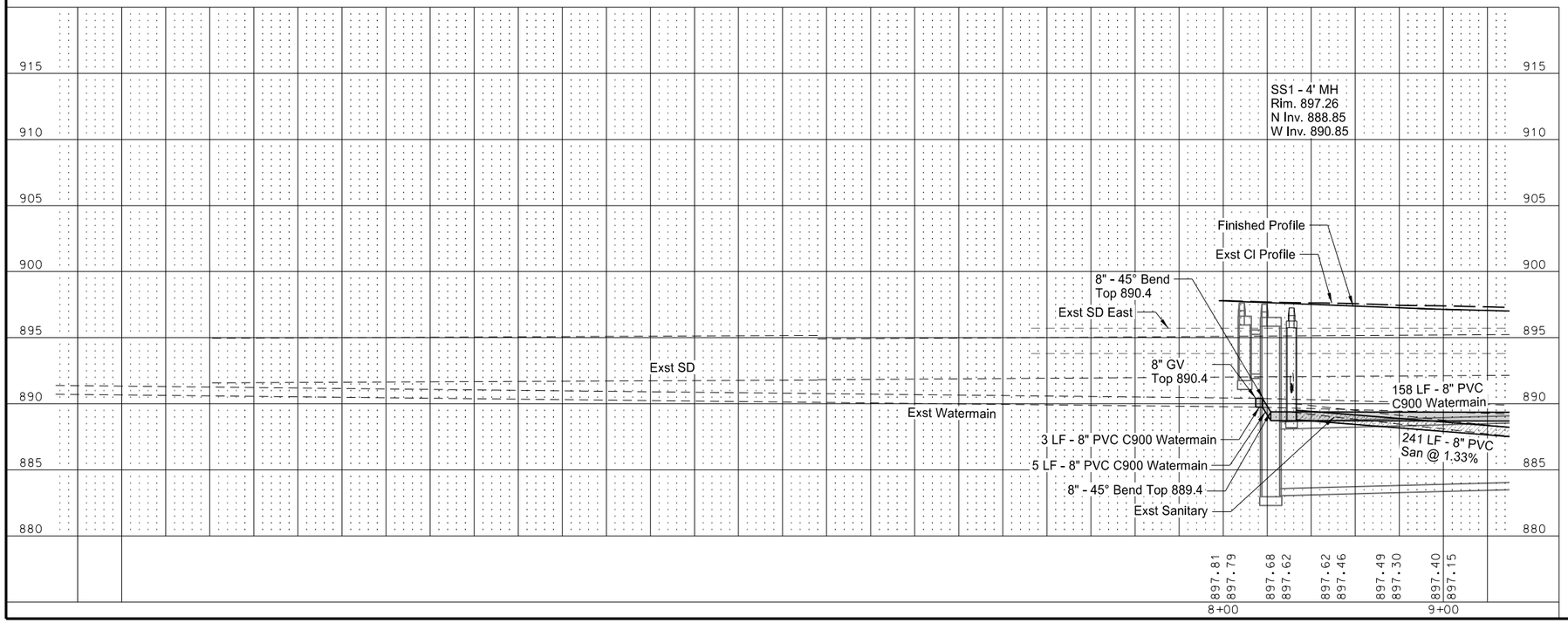
Drainage Layout

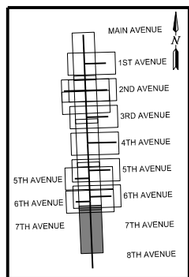
Sta 140+00 to Sta 142+00 (PR1ST)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	14

SPEC	CODE	BID ITEM	QTY	UNIT
722	0300	MANHOLE SANITARY		
		SS1	1	EA
724	0210	FITTINGS-DUCTILE IRON		
		Sta 8+18 8.7' Lt (8" - 45° Bend)	46	LBS
		Sta 8+22 5.0' Lt (8" - 45° Bend)	46	LBS
724	0310	GATE VALVE & BOX 8IN		
		Sta 8+15 8.7' Lt	1	EA
724	0830	WATERMAIN 8IN PVC		
		Sta 8+15 8.7' Lt to Sta 8+18 8.7' Lt	3	LF
		Sta 8+18 8.7' Lt to Sta 8+22 5.0' Lt	5	LF
		Sta 8+22 5.0' Lt to Sta 9+00 5.0' Lt	78	LF
724	1110	8IN SANITARY SEWER PIPE		
		Sta 8+31 22.8' Lt to SS1	42	LF
		SS1 to Sta 9+00 19.4' Rt	69	LF
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 8+32 5.0' Lt	128	BD FT







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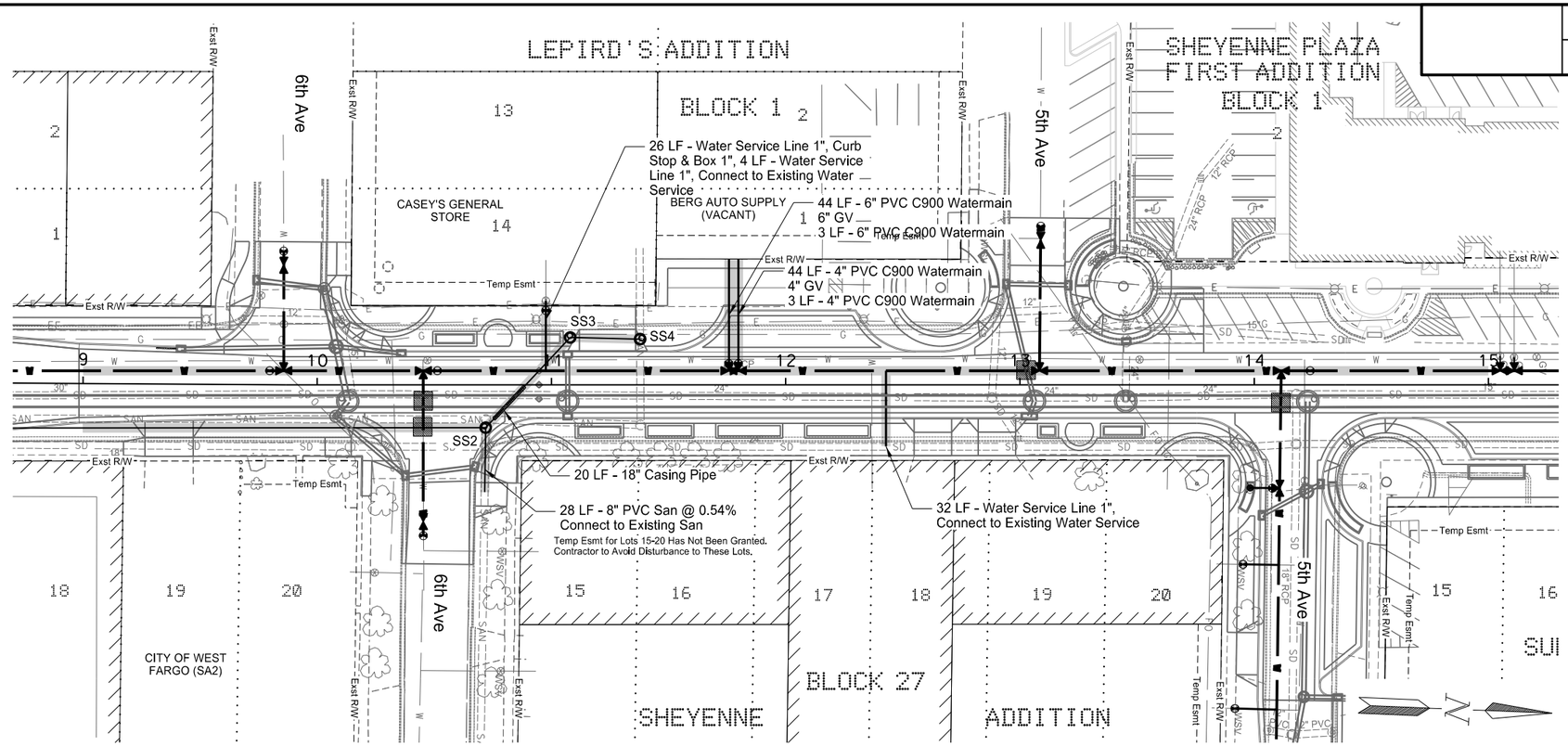
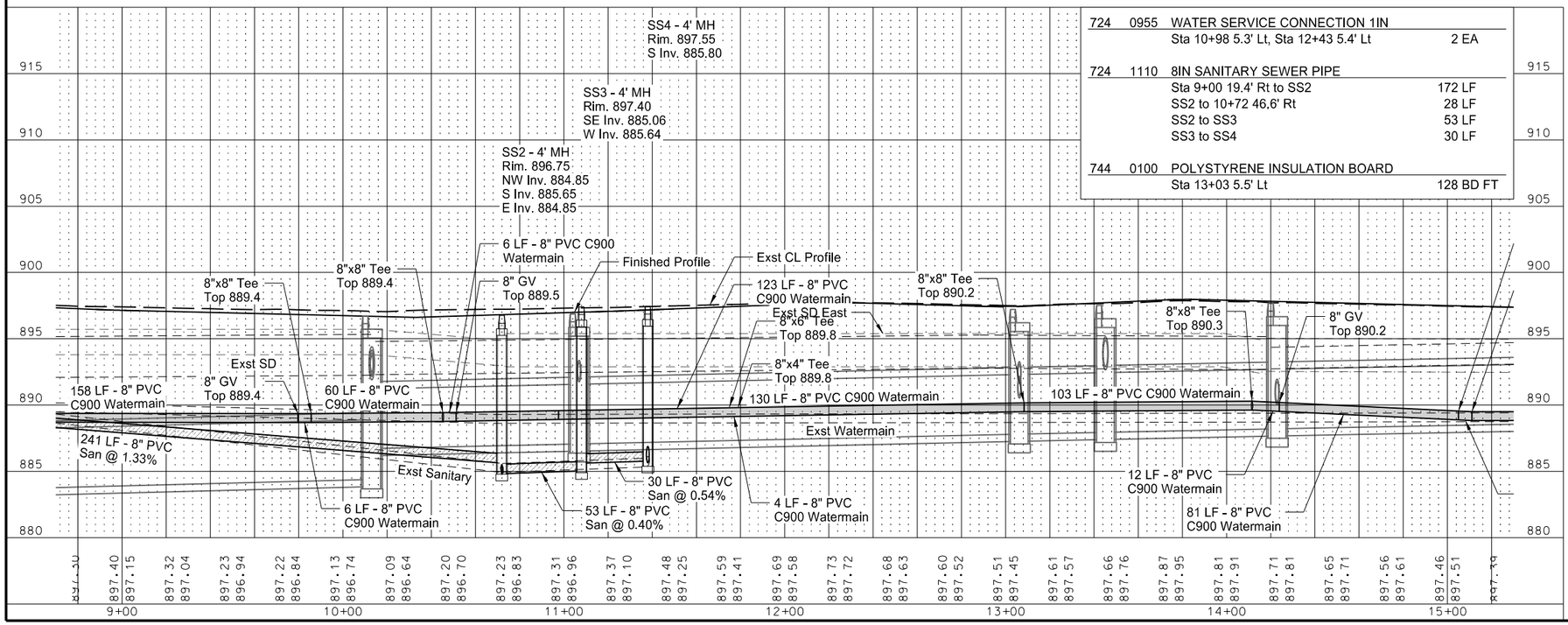
Sheyenne Street

Water Layout

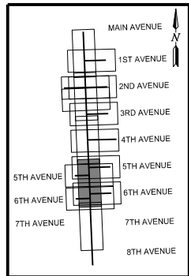
Sta 3+00 to Sta 9+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	15





SPEC	CODE	BID ITEM	QTY	UNIT
714	8498	CASING PIPE 18IN		
		Sta 10+88.45 1.38' Rt to 10+25.37 15.41' R	20	LF
722	0300	MANHOLE SANITARY		
		SS2, SS3, SS4	3	EA
724	0210	FITTINGS-DUCTILE IRON		
		Sta 9+86 5.2' Lt (8" - Tee)	86	LBS
		Sta 10+45 5.2' Lt (8" - Tee)	86	LBS
		Sta 11+75 5.4' Lt (8" x 6" Tee)	72	LBS
		Sta 11+79 8.4' Lt (8" x 4" Tee)	60	LBS
		Sta 13+08 5.5' Lt (8" - Tee)	86	LBS
		Sta 14+12 5.6' Lt (8" - Tee)	86	LBS
724	0290	GATE VALVE & BOX 4IN		
		Sta 11+79 8.4' Lt	1	EA
724	0300	GATE VALVE & BOX 6IN		
		Sta 11+75 8.4' Lt	1	EA
724	0310	GATE VALVE & BOX 8IN		
		Sta 9+80 6.0' Lt	3	EA
		Sta 10+51 6.0' Lt		
		Sta 14+24 6.0' Lt		
724	0611	WATER SERVICE LINE 1IN		
		Sta 10+98 6.0' Lt to 10+98 35.9' Lt	30	LF
		Sta 12+43 6.0' Lt to 12+43 26.3' Rt	38	LF
724	0636	WATER SERVICE LINE 6IN		
		Sta 11+75 5.4' Lt to 11+75 8.4' Lt	3	LF
		Sta 11+75 8.4' Lt to 11+75 52.4' Lt	44	LF
724	0790	WATERMAIN 4IN PVC		
		Sta 11+79 5.4' Lt to 11+79 8.4' Lt	3	LF
		Sta 11+79 8.4' Lt to 11+79 52.4' Lt	44	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 9+00 5,0' Lt to 9+80 5.2' Lt	80	LF
		Sta 9+80 5.2' Lt to 9+86 5.2' Lt	6	LF
		Sta 9+86 5.2' Lt to 10+45 5.2' Lt	60	LF
		Sta 10+45 5.2' Lt to 10+51 5.2' Lt	6	LF
		Sta 10+51 5.2' Lt to 10+98 5.3' Lt	46	LF
		Sta 10+98 5.3' Lt to 11+75 5.4' Lt	77	LF
		Sta 11+75 5.4' Lt to 11+79 5.4' Lt	4	LF
		Sta 11+79 5.4' Lt to 12+43 5.4' Lt	64	LF
		Sta 12+43 5.4' Lt to 13+08 5.5' Lt	66	LF
		Sta 13+08 5.5' Lt to 14+12 5.6' Lt	103	LF
		Sta 14+12 5.6' Lt to 14+24 5.6' Lt	12	LF
		Sta 14+24 5.6' Lt to 15+00 5.7' Lt	76	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 10+98 5.3' Lt, Sta 12+43 5.4' Lt	2	EA
724	1110	8IN SANITARY SEWER PIPE		
		Sta 9+00 19.4' Rt to SS2	172	LF
		SS2 to 10+72 46,6' Rt	28	LF
		SS2 to SS3	53	LF
		SS3 to SS4	30	LF
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 13+03 5.5' Lt	128	BD FT



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Sheyenne Street

Water Layout

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

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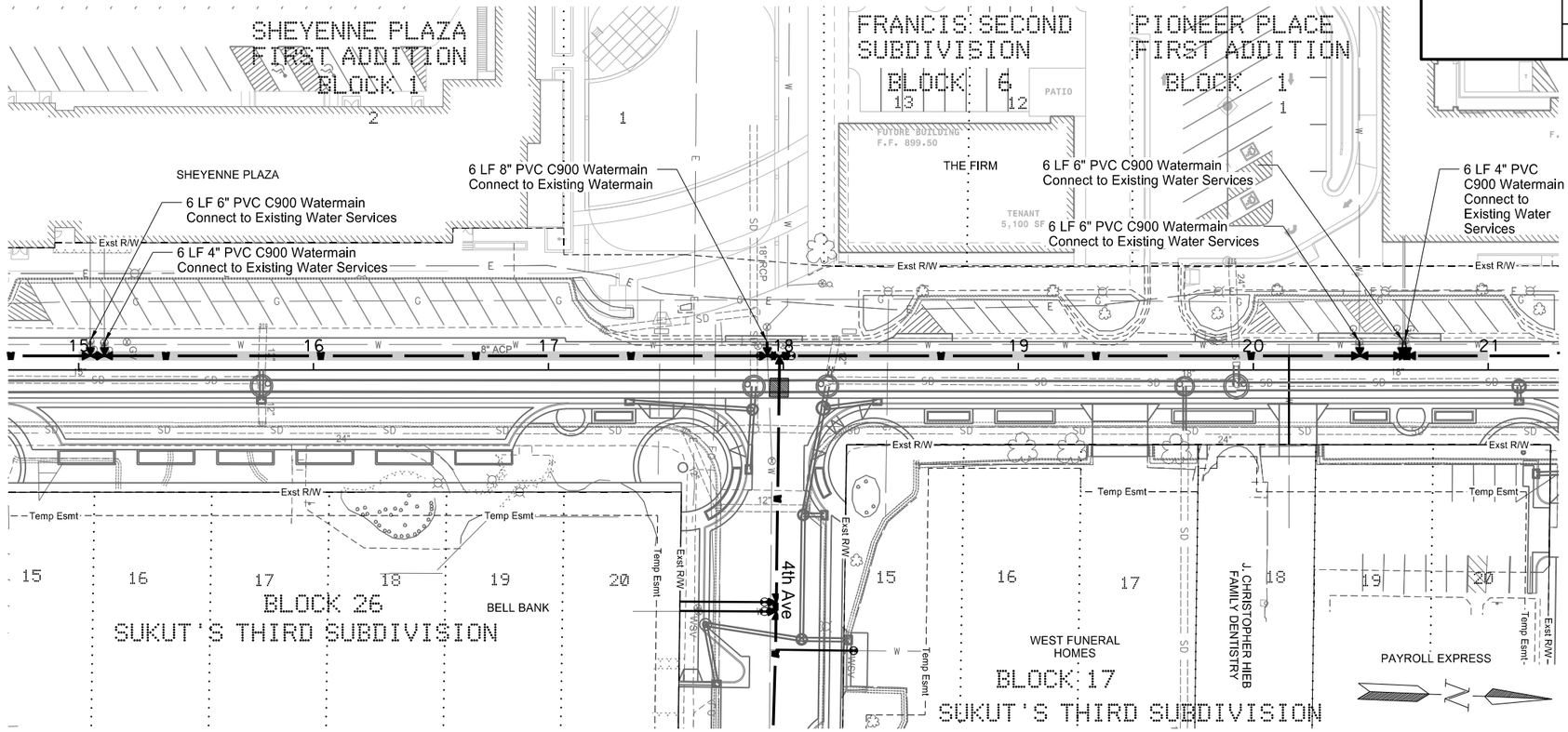
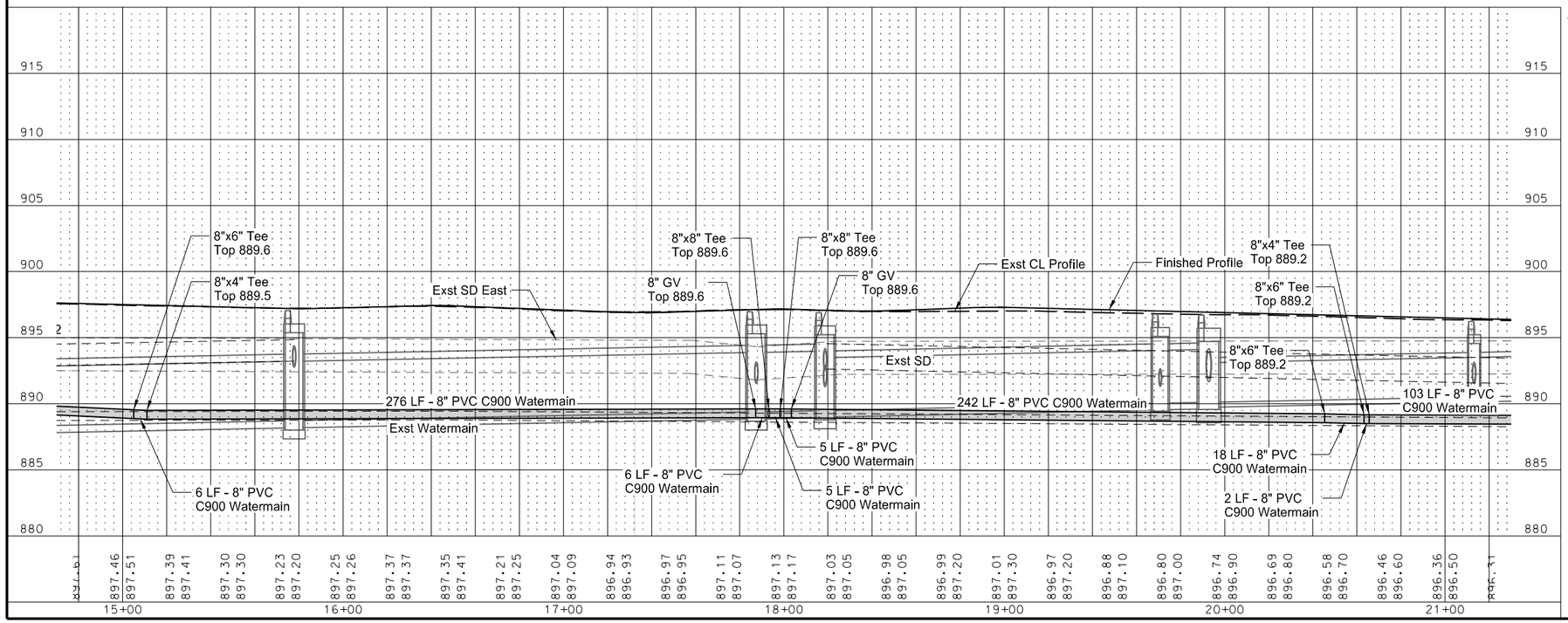
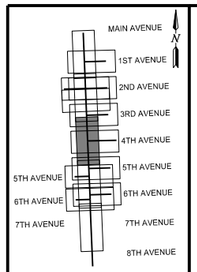
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	16





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 15+05 5.7' Lt (8" x 6" - Tee)	72	LBS
		Sta 15+11 5.7' Lt (8" x 4" - Tee)	60	LBS
		Sta 17+93 6.0' Lt (8" x 6" - Tee)	72	LBS
		Sta 17+98 6.0' Lt (8" - Tee)	86	LBS
		Sta 20+45 6.0' Lt (8" x 6" - Tee)	72	LBS
		Sta 20+63 6.0' Lt (8" x 6" - Tee)	72	LBS
		Sta 20+66 6.0" Lt (8" x 4" - Tee)	60	LBS
724	0310	GATE VALVE & BOX 8IN		
		Sta 17+90 6.0' Lt	2	EA
		Sta 18+03 6.0' Lt		
724	0636	WATER SERVICE LINE 6IN		
		Sta 15+05 5.7' Lt to 15+05 11.7' Lt	6	LF
		Sta 20+45 6.0' Lt to 20+45 12' Lt	6	LF
		Sta 20+63 6.0' Lt to 20+64 12' Lt	6	LF
724	0790	WATERMAIN 4IN PVC		
		Sta 15+11 5.7' Lt to 15+11 11.7' Lt	6	LF
		Sta 20+66 6.0" Lt to 20+65 12' Lt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 15+00 5.7' Lt to 15+05 5.7' Lt	5	LF
		Sta 15+05 5.7' Lt to 15+11 5.7' Lt	6	LF
		Sta 15+11 5.7' Lt to 17+90 6.0' Lt	279	LF
		Sta 17+90 6.0' Lt to 17+93 6.0' Lt	3	LF
		Sta 17+93 6.0' Lt to 17+98 6.0' Lt	5	LF
		Sta 17+98 6.0' Lt to 18+03 6.0' Lt	5	LF
		Sta 18+03 6.0' Lt to 20+45 6.0' Lt	242	LF
		Sta 20+45 6.0' Lt to 20+63 6.0' Lt	18	LF
		Sta 20+63 6.0' Lt to 20+66 6.0" Lt	2	LF
		Sta 20+66 6.0" Lt to 21+00 6.0' Lt	35	LF
724	0970	WATER LINE CONNECTION 4IN		
		Sta 15+11 11.8' Lt, Sta 20+65 12.4' Lt	2	EA
724	0975	WATER LINE CONNECTION 6IN		
		Sta 15+05 12.4 Lt, Sta 20+45 12' Lt	3	EA
		Sta 20+64 12.3' Lt		



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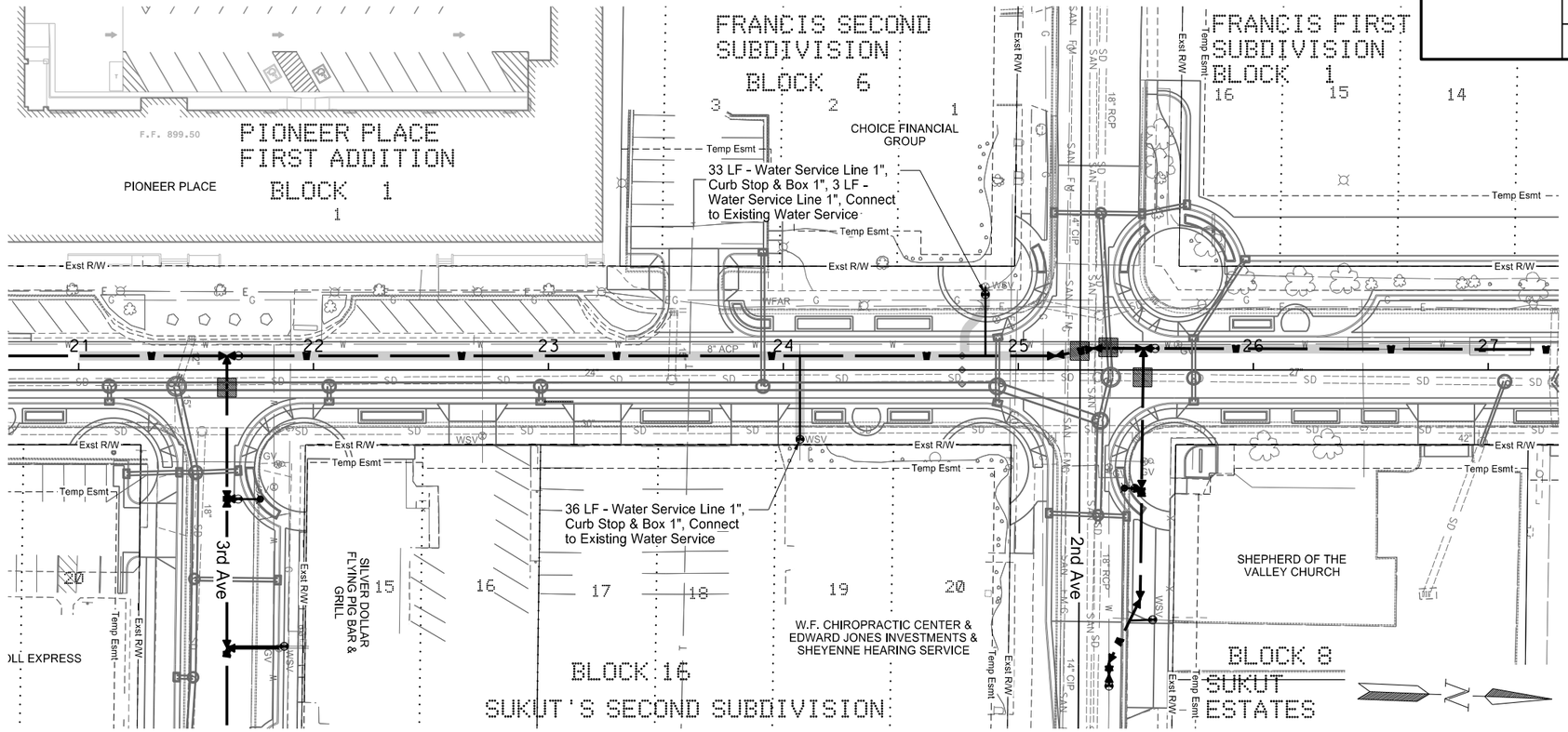
Sheyenne Street

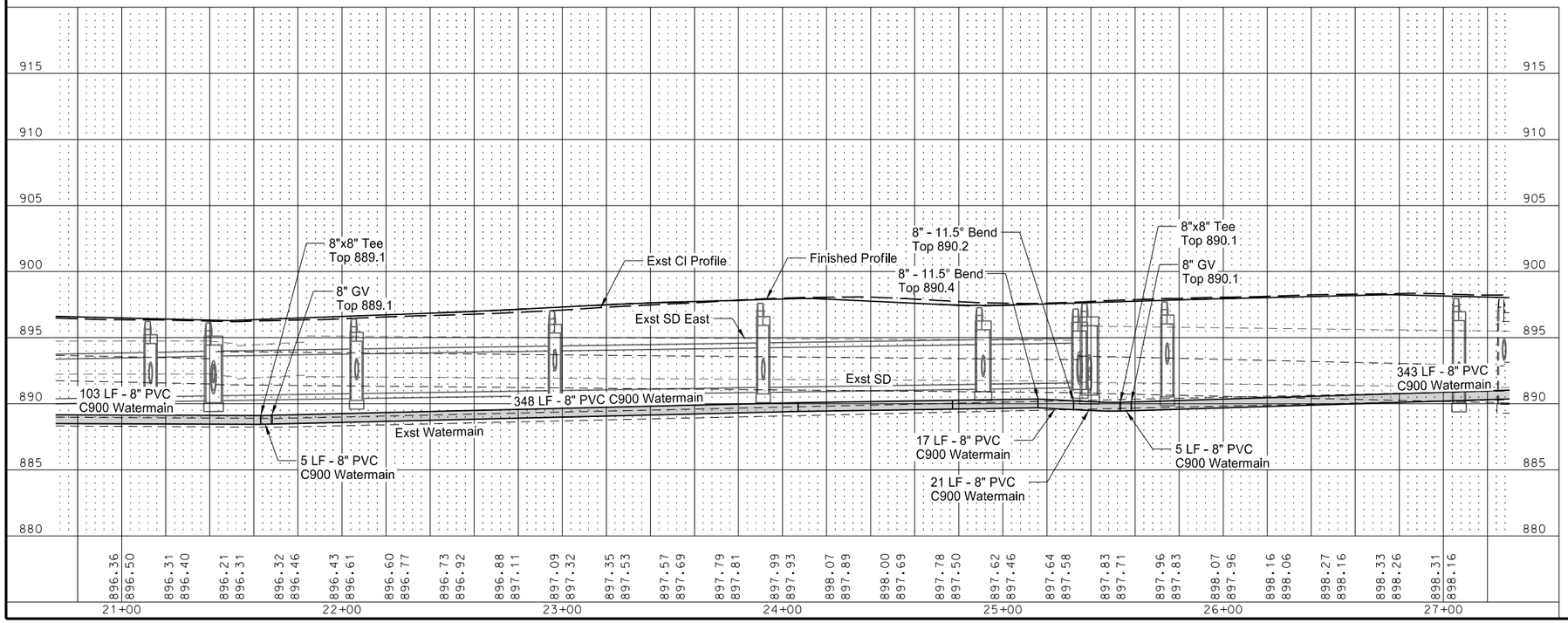
Water Layout

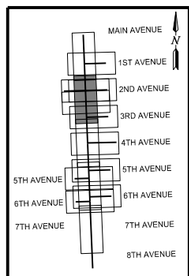
Sta 15+00 to Sta 21+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	17

SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 21+63 6.0' Lt (8" - Tee)	86	LBS
		Sta 25+16 6.0' Lt (8" - 11.25° - Bend)	54	LBS
		Sta 25+32 9.2' Lt (8" - 11.25° - Bend)	54	LBS
		Sta 25+53 9.2' Lt (8" - Tee)	86	LBS
724	0310	GATE VALVE & BOX 8IN		
		Sta 21+68 6.0' Lt	2	EA
		Sta 25+58 9.2' Lt		
724	0611	WATER SERVICE LINE 1IN		
		Sta 24+07 6.0' Lt to 24+07 30' Rt	36	LF
		Sta 24+86 6.0' Lt to 24+86 36' Lt	30	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 21+00 6.0' Lt to 21+63 6.0' Lt	62	LF
		Sta 21+63 6.0' Lt to 21+68 6.0' Lt	5	LF
		Sta 21+68 6.0' Lt to 24+07 6.0' Lt	239	LF
		Sta 24+07 6.0' Lt to 24+86 6.0' Lt	79	LF
		Sta 24+86 6.0' Lt to 25+16 6.0' Lt	30	LF
		Sta 25+16 6.0' Lt to 25+32 9.2' Lt	17	LF
		Sta 25+32 9.2' Lt to 25+47 9.2' Lt	15	LF
		Sta 25+47 9.2' Lt to 25+53 9.2' Lt	7	LF
		Sta 25+53 9.2' Lt to 27+00 9.2' Lt	146	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 24+07 6.0' Lt, Sta 24+86 6.0' Lt	2	EA
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 25+31 9.2' Lt	128	BD FT
		Sta 25+37 9.2' Lt	128	BD FT







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Sheyenne Street

Water Layout

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

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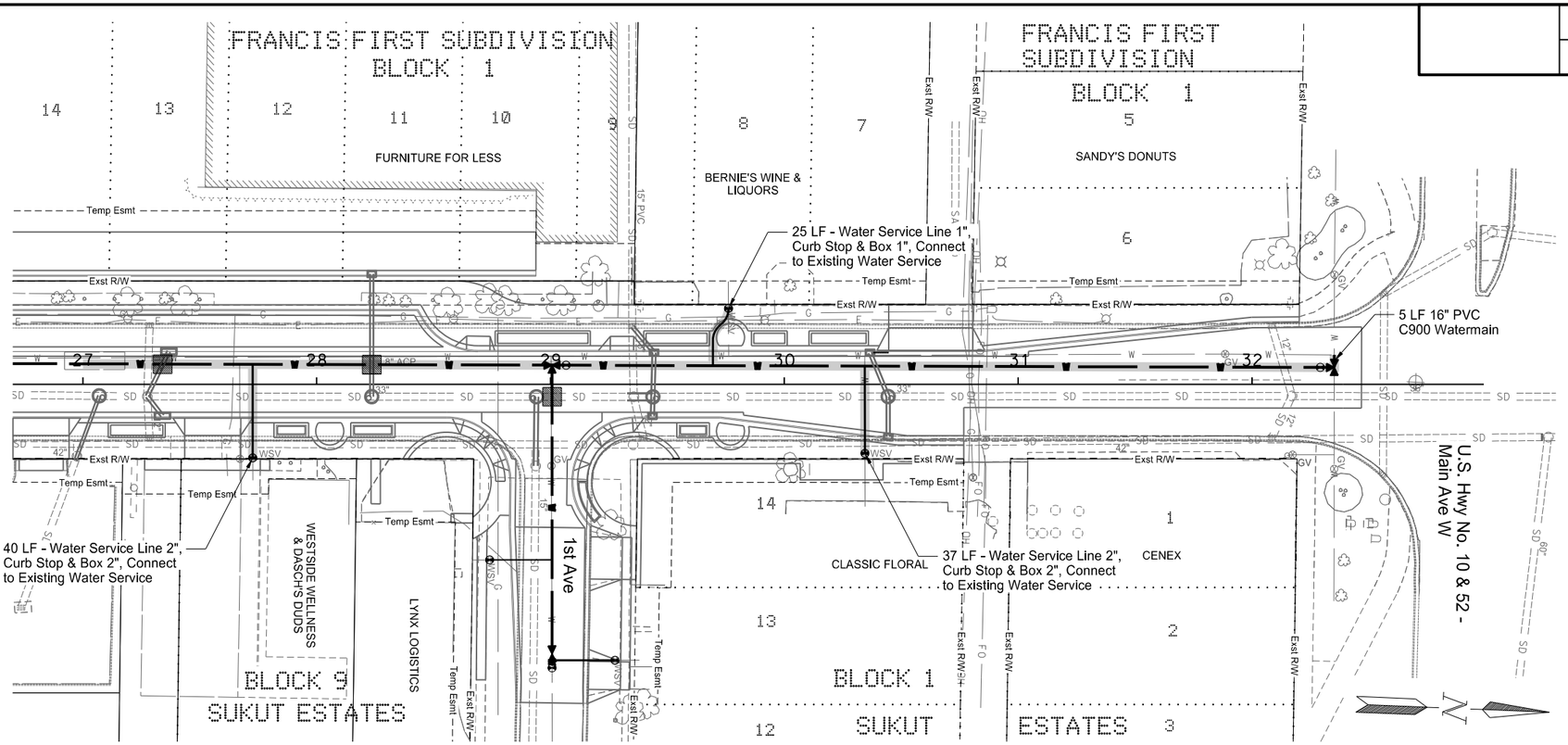
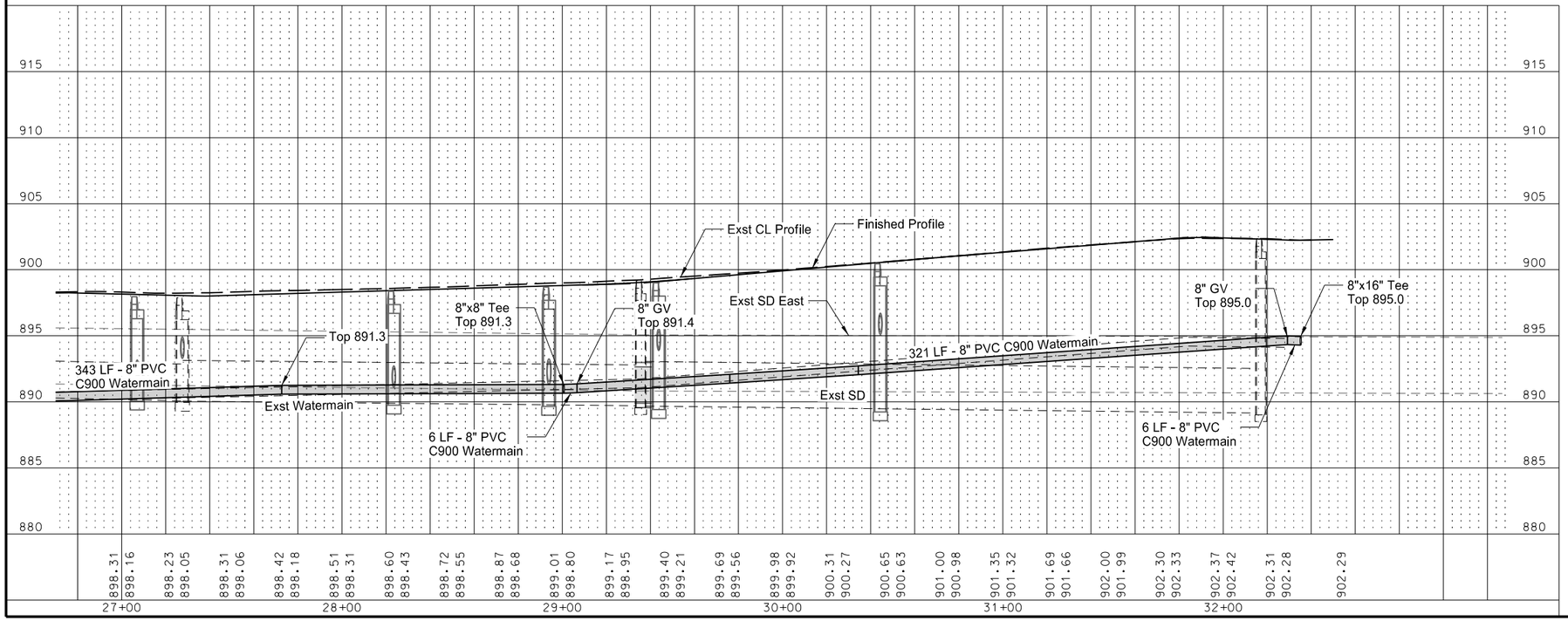
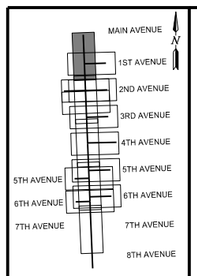
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	18





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 29+01 8.2' Lt (8" - Tee)	86	LBS
		Sta 32+35 7.2' Lt (16" x 8" - Tee)	248	LBS
724	0310	GATE VALVE & BOX 8IN		
		Sta 29+07 8.1' Lt	2	EA
		Sta 32+29 7.2' Lt		
724	0611	WATER SERVICE LINE 1IN		
		Sta 29+76 7.9' Lt to 29+76 32.3' Lt	25	LF
724	0621	WATER SERVICE LINE 2IN		
		Sta 27+73 8.5' Lt to 27+73 31.5' Rt	40	LF
		Sta 30+34 7.8' Lt to 30+34 29.5' Rt	37	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 27+00 9.2' Lt to 27+73 8.5' Lt	74	LF
		Sta 27+73 8.5' Lt to 29+01 8.2' Lt	128	LF
		Sta 29+01 8.2' Lt to 29+07 8.1' Lt	6	LF
		Sta 29+07 8.1' Lt to 29+76 7.9' Lt	69	LF
		Sta 29+76 7.9' Lt to 30+34 7.8' Lt	58	LF
		Sta 30+34 7.8' Lt to 32+29 7.2' Lt	195	LF
		Sta 32+29 7.2' Lt to 32+35 7.2' Lt	6	LF
724	0852	WATERMAIN 16IN PVC		
		Sta 32+35 7.2' Lt to 32+35 12.2' Lt	5	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 29+76 7.9' Lt	1	EA
724	0960	WATER SERVICE CONNECTION 2IN		
		Sta 30+34 7.8' Lt, Sta 27+73 8.5' Lt	2	EA
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 27+34 8.6' Lt	128	BD FT
		Sta 28+24 8.6' Lt	128	BD FT



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Sheyenne Street

Water Layout

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

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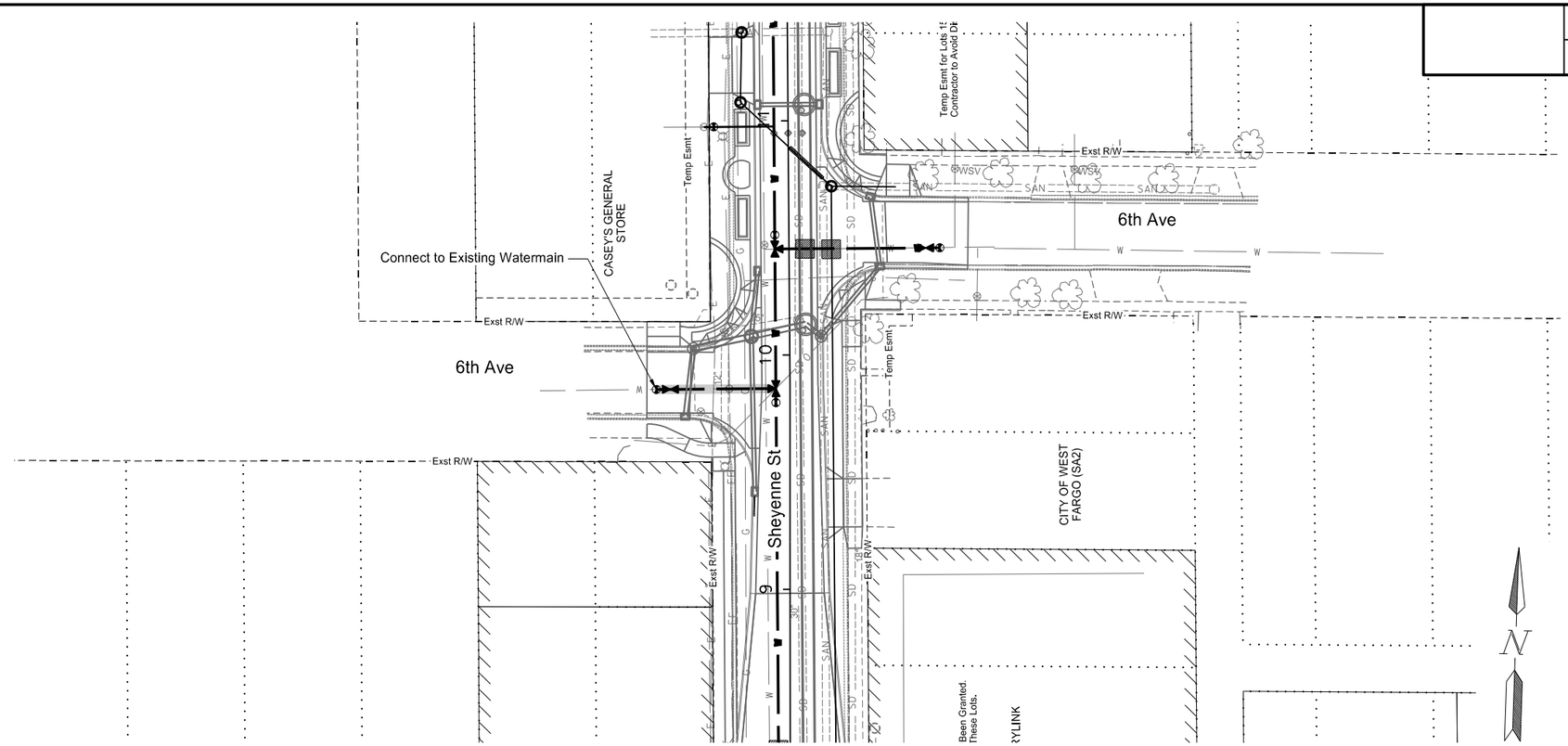
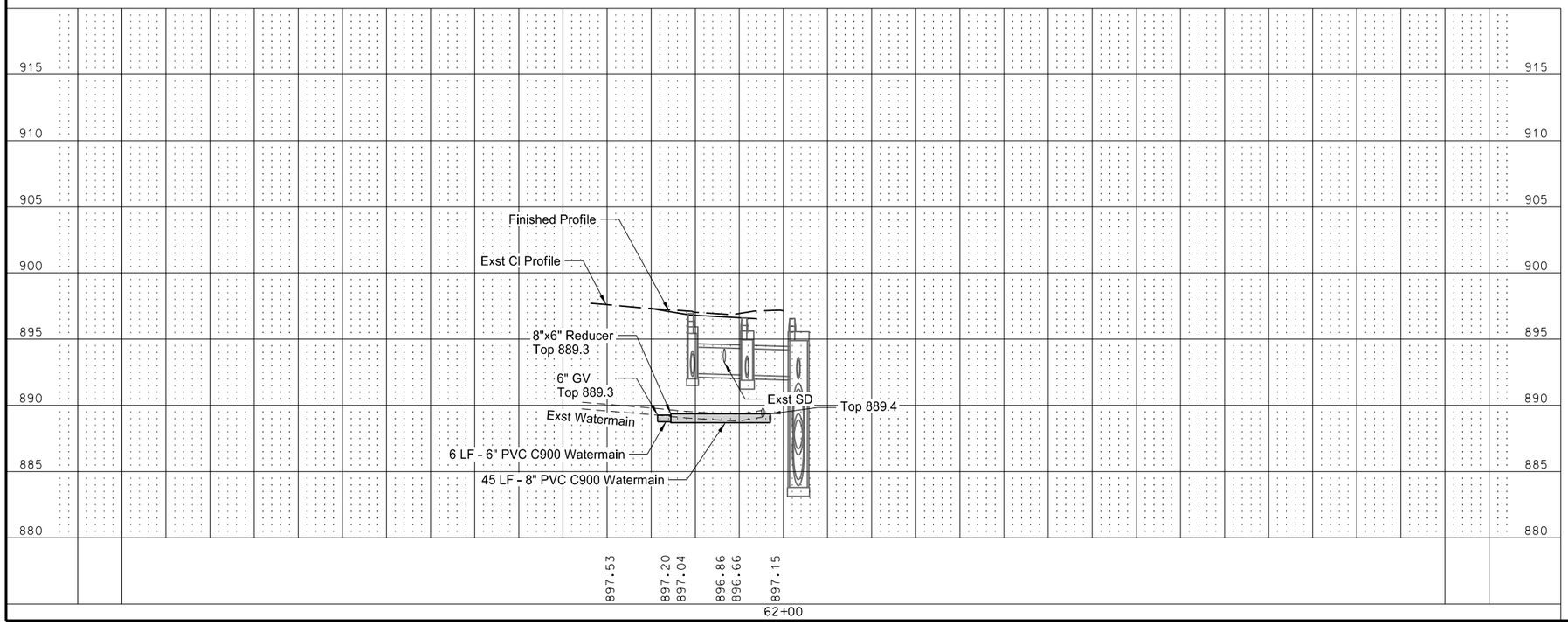
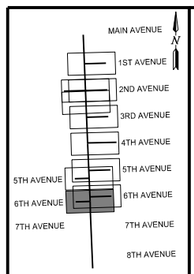
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	19

SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 61+49 2.9' Rt (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 61+43 2.9' Rt	1	EA
724	0810	WATERMAIN 6IN PVC		
		Sta 61+43 2.9' Rt To 61+49 2.9' Rt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 61+49 2.9' Lt to 61+94 2.5' Rt	45	LF







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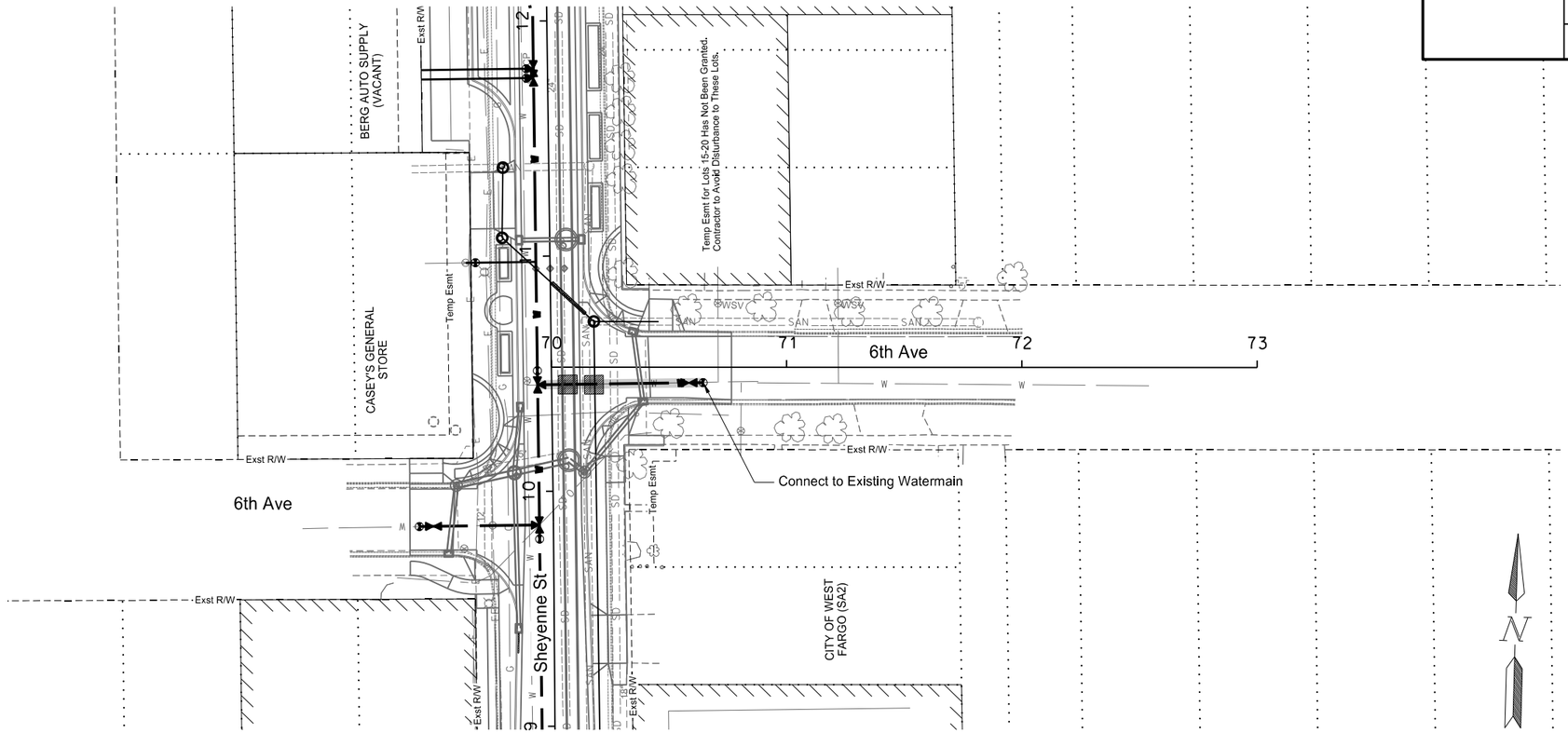
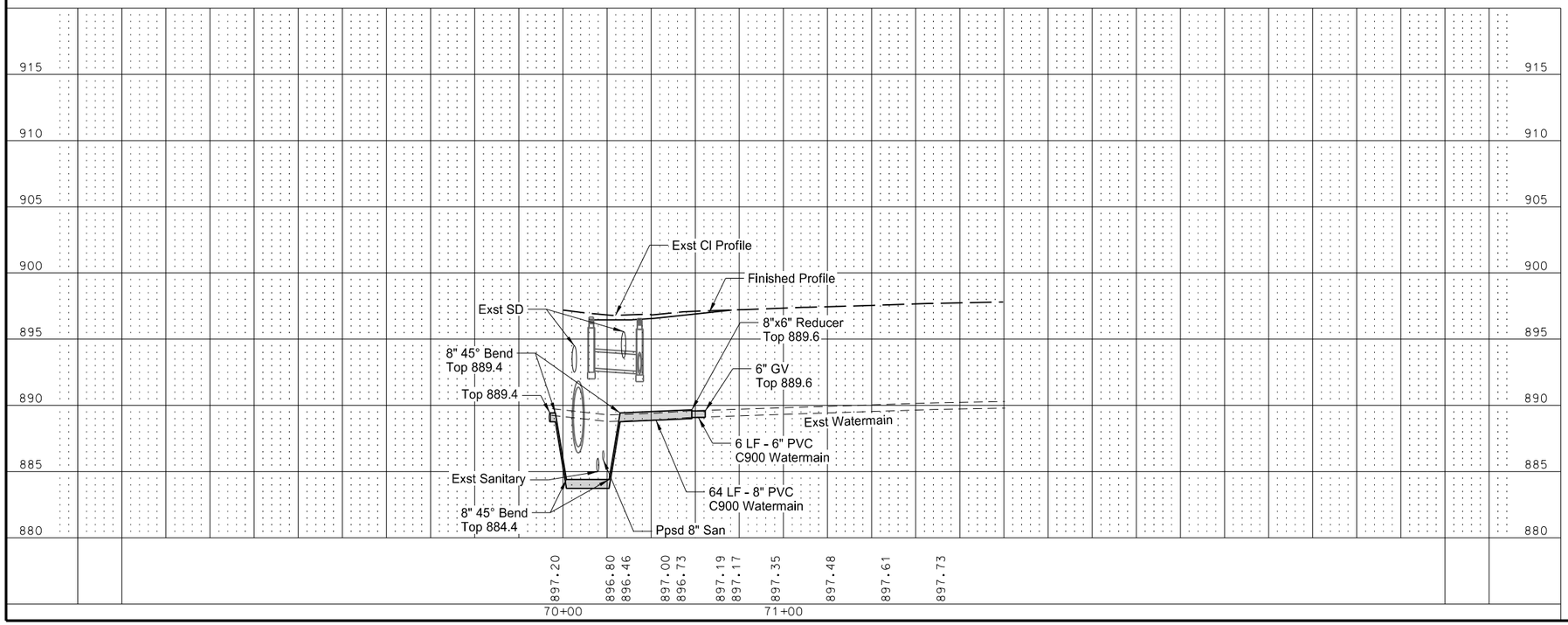
6th Avenue W

Water Layout

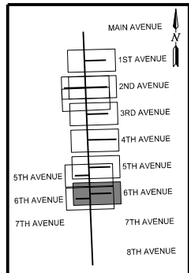
Sta 60+00 to Sta 62+00 (PR6TH_W)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	20





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 69+97 7.5' Rt (8" - 45° Bend)	46	LBS
		Sta 70+02 7.5' Rt (8" - 45° Bend)	46	LBS
		Sta 70+21 7.3' Rt (8" - 45° Bend)	46	LBS
		Sta 70+26 7.3' Rt (8" - 45° Bend)	46	LBS
		Sta 70+58 6.7' Rt (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 70+64 6.7' Rt	1	EA
724	0810	WATERMAIN 6IN PVC		
		Sta 70+58 6.7' Rt to 70+64 6.7' Rt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 69+94 7.5' Rt to 69+97 7.5' Rt	2	LF
		Sta 69+97 7.5' Rt to 70+02 7.5' Rt	5	LF
		Sta 70+02 7.5' Rt to 70+21 7.3' Rt	19	LF
		Sta 70+21 7.3' Rt to 70+26 7.3' Rt	5	LF
		Sta 70+26 7.3' Rt to 70+58 6.7' Rt	33	LF
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 70+08 7.4' Rt	128	BD FT
		Sta 70+19 7.4' Rt	128	BD FT



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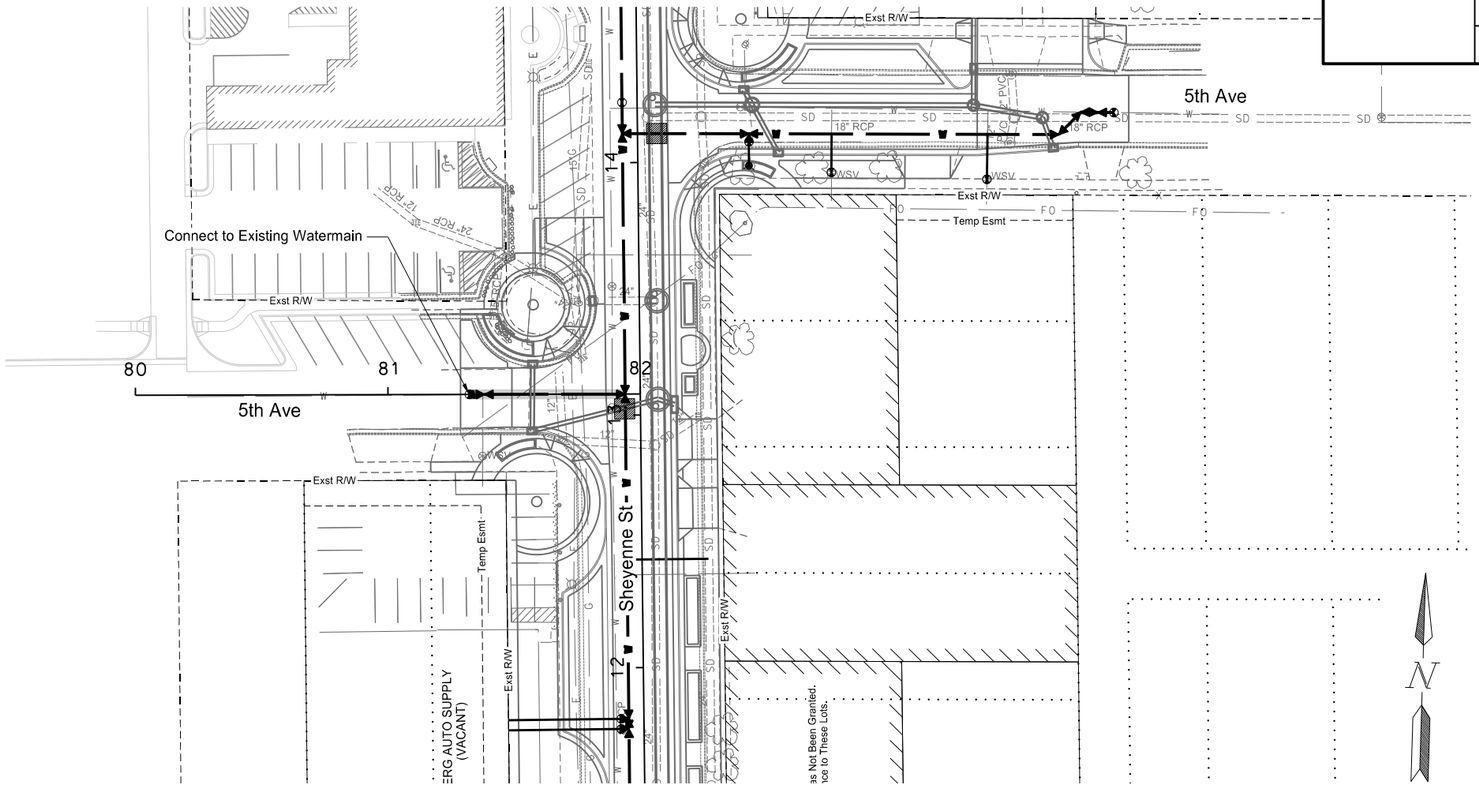
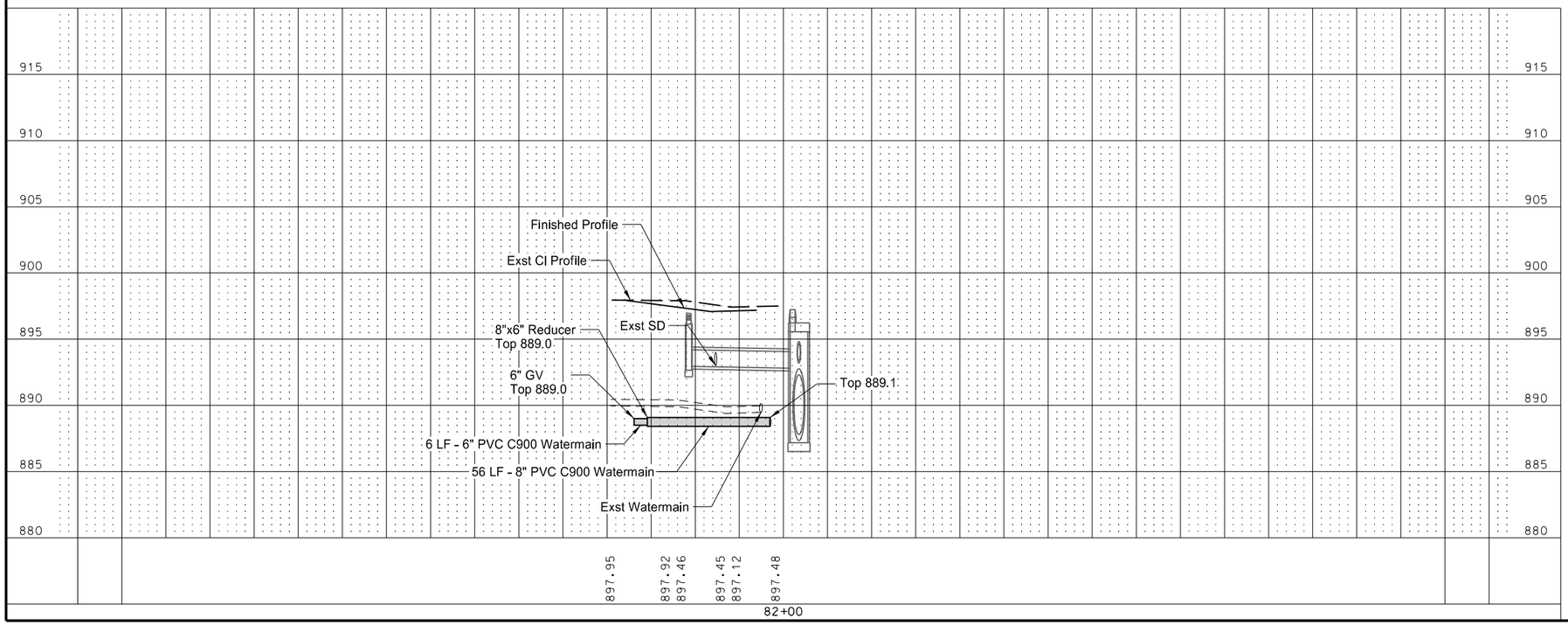
6th Avenue E

Water Layout

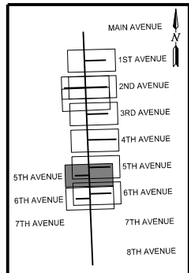
Sta 70+00 to Sta 72+00 (PR6TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	21





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 91+38 0.0' (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 81+32 0.0'	1	EA
724	0810	WATERMAIN 6IN PVC		
		Sta 81+32 to 81+38	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 81+38 to 81+94	56	LF



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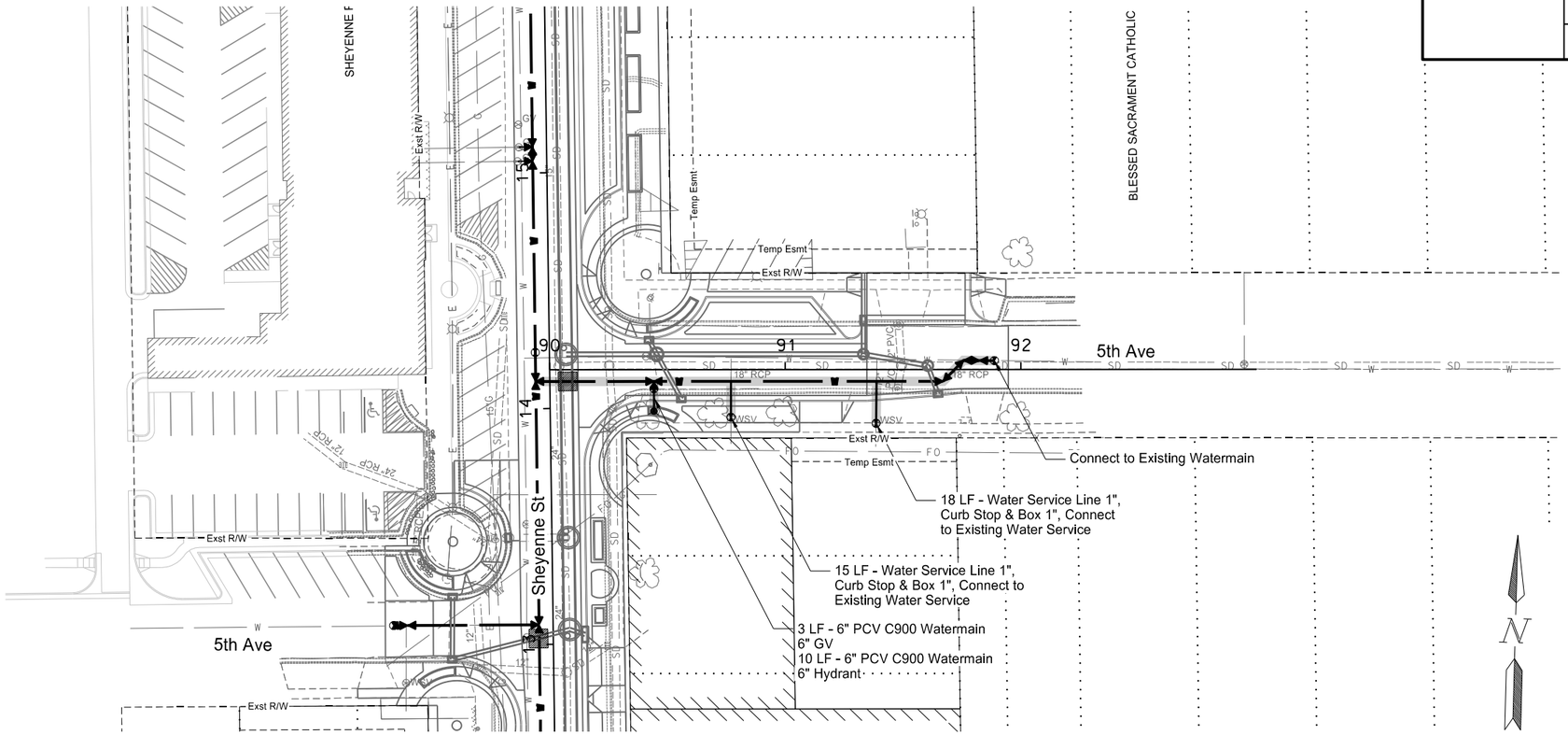
5th Avenue W

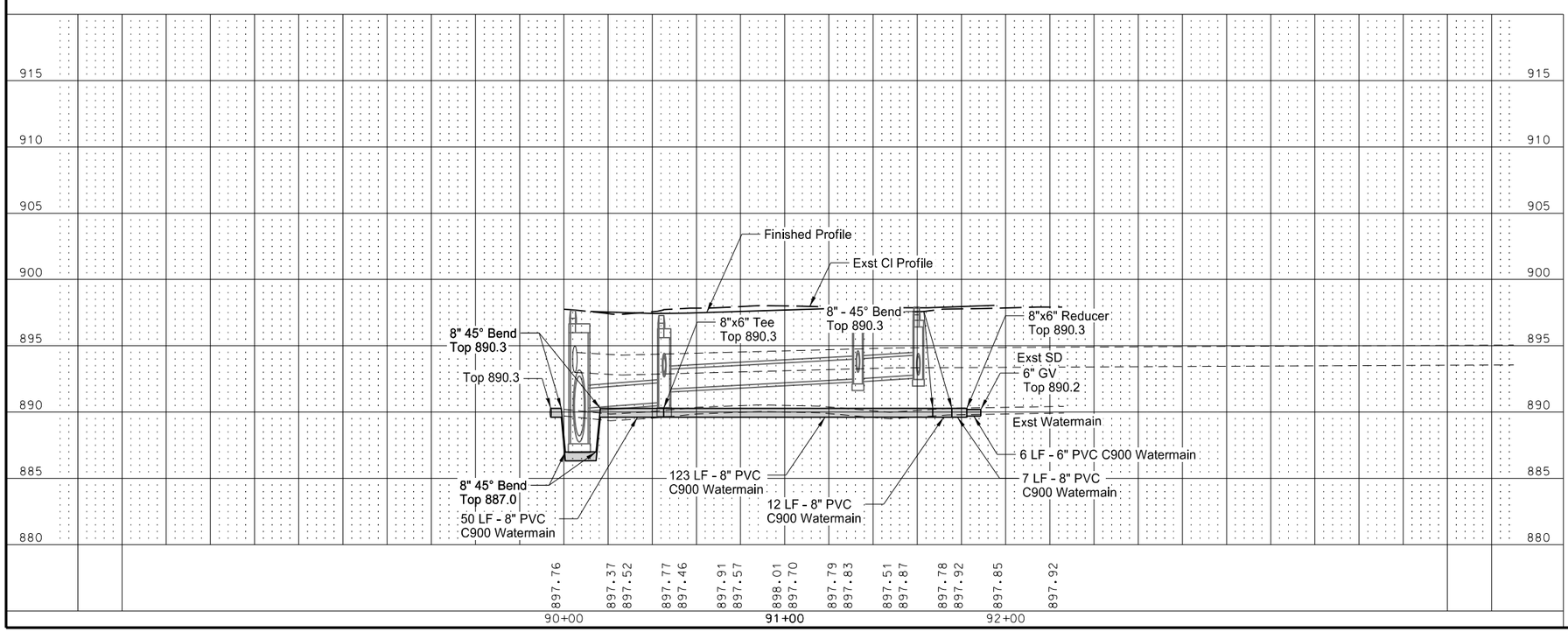
Water Layout

Sta 80+00 to Sta 82+00 (PR5TH_W)

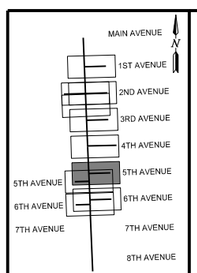
8/15/2020 4:32:25 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\055DL_021_5th Ave W_Water.dgn

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	22





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 89+99 5.0' Rt (8" - 45° Bend)	46	LBS
		Sta 90+01 5.0' Rt (8" - 45° Bend)	46	LBS
		Sta 90+15 5.0' Rt (8" - 45° Bend)	46	LBS
		Sta 90+16 5.0' Rt (8" - 45° Bend)	46	LBS
		Sta 90+43 5.0' Rt (8" x 6" - Tee)	72	LBS
		Sta 91+67 5.0' Rt (8" - 45° Bend)	46	LBS
		Sta 91+76 3.9' Lt (8" - 45° Bend)	46	LBS
		Sta 91+82 3.8' Lt (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 90+43 8.0' Rt	2	EA
		Sta 91+88 3.8' Lt		
724	0411	6IN HYDRANT		
		Sta 90+43 17.6' Rt	1	EA
724	0611	WATER SERVICE LINE 1IN		
		Sta 90+77 5.0' Rt to 90+77 20' Rt	15	LF
		Sta 91+39 5.0' Rt to 91+39 23' Rt	18	LF
724	0810	WATERMAIN 6IN PVC		
		Sta 90+43 5.0' Rt to 90+44 8.0' Rt	3	LF
		Sta 90+43 8.0' Rt to 90+44 18.0' Rt	10	LF
		Sta 91+82 3.8' Lt to 91+88 3.8'Lt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 89+94 5.0' Rt to 89+99 5.0' Rt	5	LF
		Sta 89+99 5.0' Rt to 90+01 5.0' Rt	2	LF
		Sta 90+01 5.0' Rt to 90+15 5.0' Rt	14	LF
		Sta 90+15 5.0' Rt to 90+16 5.0' Rt	2	LF
		Sta 90+16 5.0' Rt to 90+43 5.0' Rt	26	LF
		Sta 90+43 5.0' Rt to 90+77 5.0' Rt	34	LF
		Sta 90+77 5.0' Rt to 91+39 5.0' Rt	62	LF
		Sta 91+39 5.0' Rt to 91+67 5.0' Rt	28	LF
		Sta 91+67 5.0' Rt to 91+76 3.9' Lt	12	LF
		Sta 91+76 3.9' Lt to 91+82 3.8' Lt	7	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 90+77 5.0' Rt, 91+39 5.0' Rt	2	EA
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 90+08 5.0' Rt	128	BD FT



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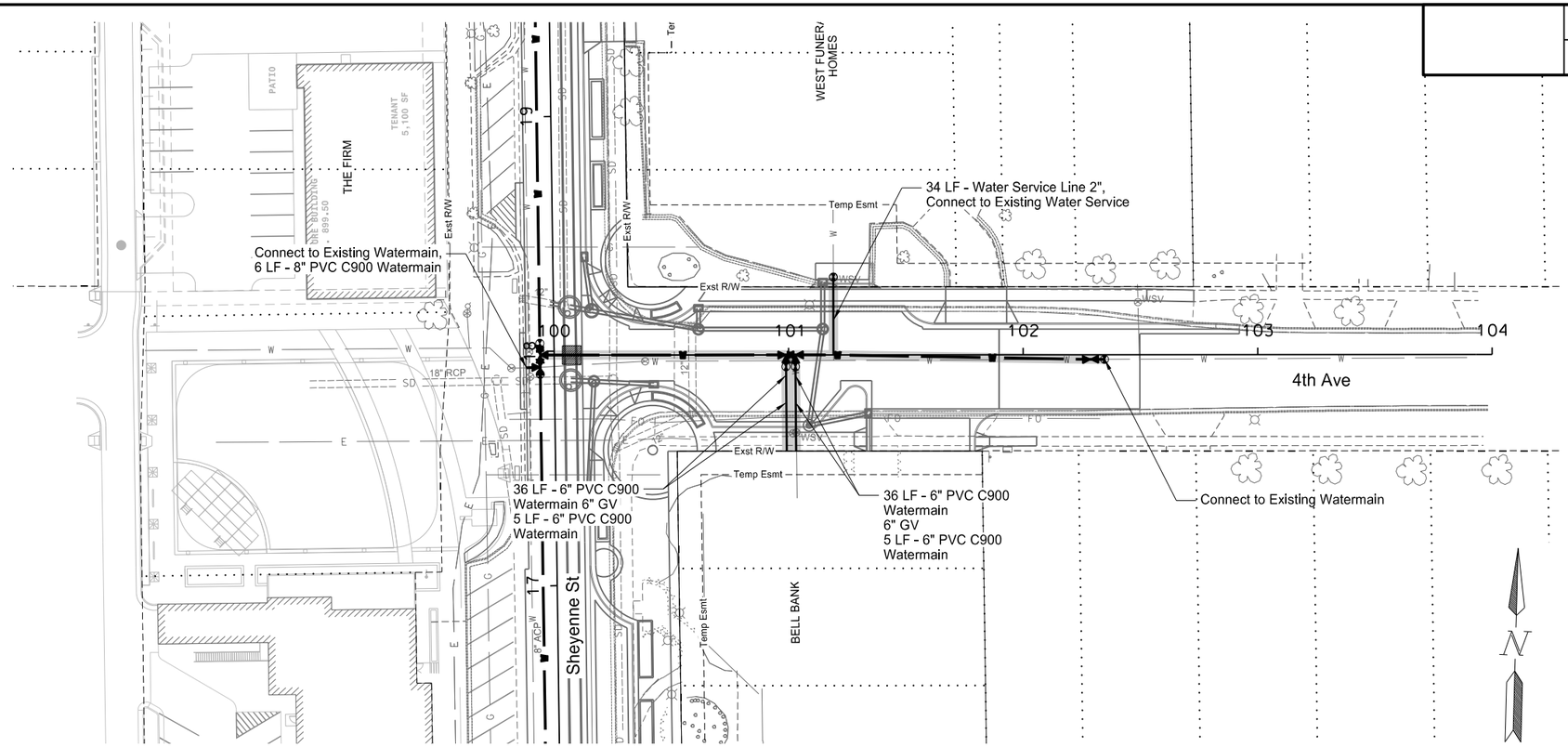
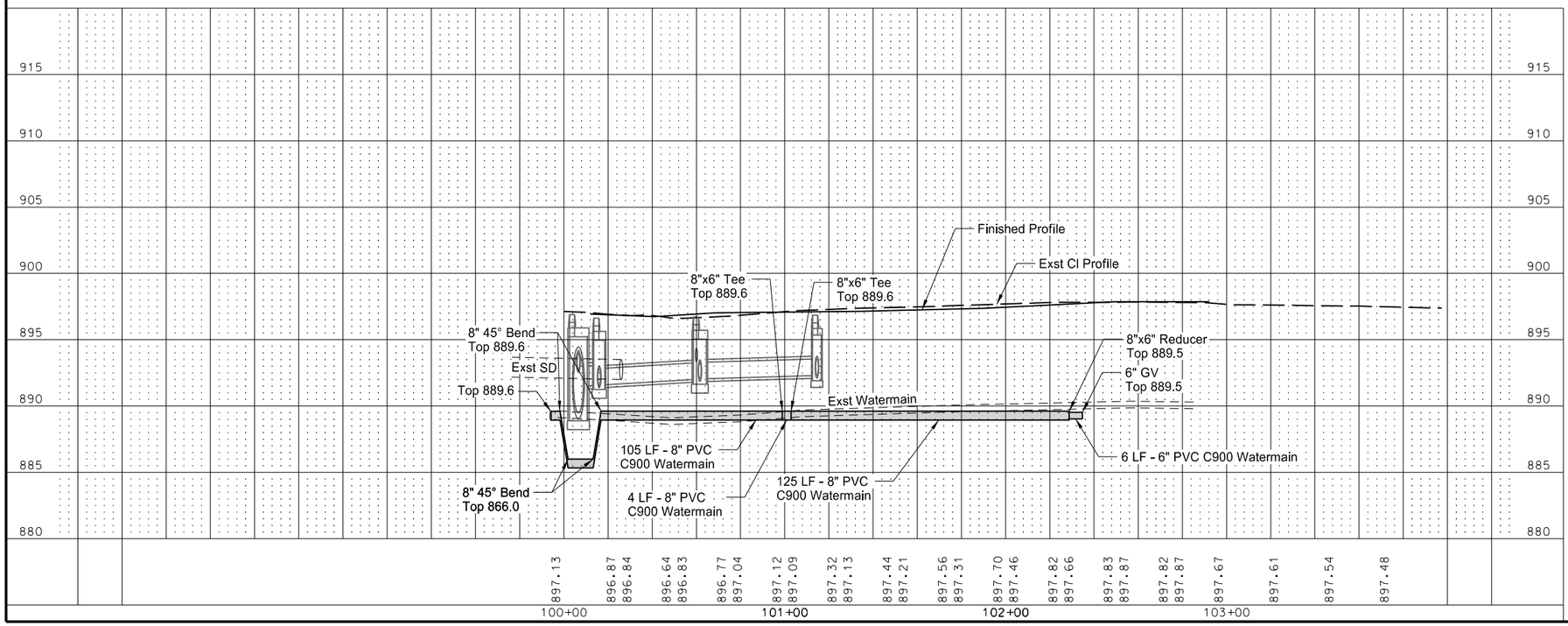
5th Avenue E

Water Layout

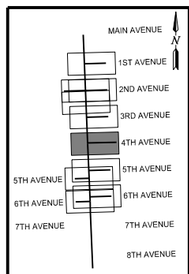
Sta 90+00 to Sta 92+00 (PR5TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	23





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 99+98 0.0' Rt (8" - 45° Bend)	46	LBS
		Sta 100+02 0.0' Rt (8" - 45° Bend)	46	LBS
		Sta 100+13 0.0' Rt (8" - 45° Bend)	46	LBS
		Sta 100+17 0.0' Rt (8" - 45° Bend)	46	LBS
		Sta 100+99 0.0' Rt (8" x 6" - Tee)	72	LBS
		Sta 101+03 0.0' Rt (8" x 6" - Tee)	72	LBS
		Sta 102+29 2.0' Rt (8" x 6" - Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 100+99 5.0' Rt	3	EA
		Sta 101+03 5.0' Rt		
		Sta 102+35 2.0' Rt		
724	0621	WATER SERVICE LINE 2IN		
		Sta 101+19 0.0' Rt to 101+19 34.0' Lt	34	LF
724	0636	WATER SERVICE LINE 6IN		
		Sta 100+99 0.0' Rt to 100+99 5.0' Rt	5	LF
		Sta 100+99 5.0' Rt to 100+99 41.0' Rt	36	LF
		Sta 101+03 0.0' Rt to 101+03 5.0' Rt	5	LF
		Sta 101+03 5.0' Rt to 101+03 41.0' Rt	36	LF
724	0810	WATERMAIN 6IN PVC		
		Sta 102+29 2.0' Rt to 102+35 2.0' Rt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 99+88 5.4' Rt to 99+96 5.2' Rt	6	LF
		Sta 99+96 0.0' Rt to 99+98 0.0' Rt	4	LF
		Sta 99+98 0.0' Rt to 100+02 0.0' Rt	4	LF
		Sta 100+02 0.0' Rt to 100+13 0.0' Rt	11	LF
		Sta 100+13 0.0' Rt to 100+17 0.0' Rt	4	LF
		Sta 100+17 0.0' Rt to 100+99 0.0' Rt	82	LF
		Sta 100+99 0.0' Rt to 101+03 0.0' Rt	4	LF
		Sta 101+03 0.0' Rt to 101+19 0.0' Rt	16	LF
		Sta 101+19 0.0' Rt to 102+29 2.0' Rt	110	LF
724	0960	WATER SERVICE CONNECTION 2IN		
		Sta 101+19 0.0' Rt	1	EA
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 100+07 0.0' Lt	128	BD FT



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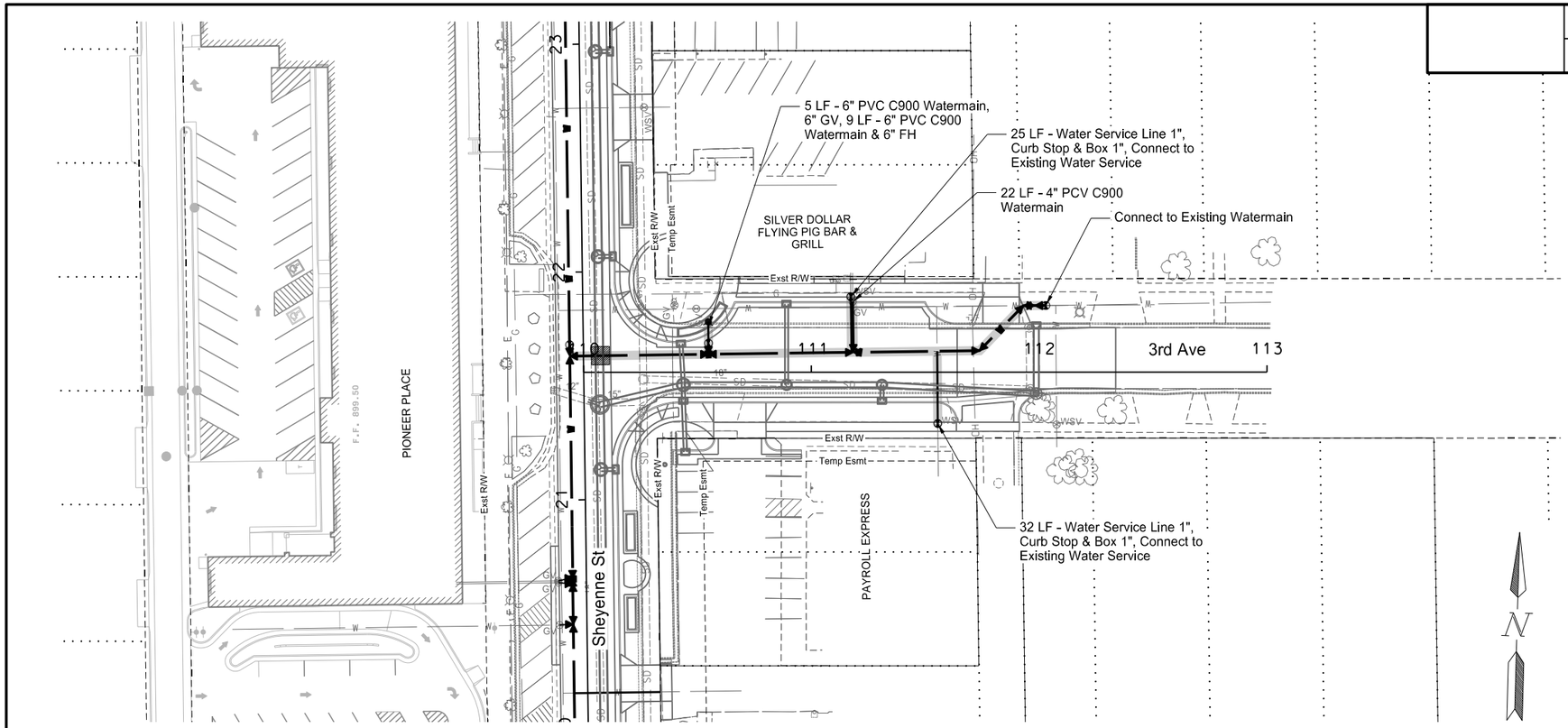
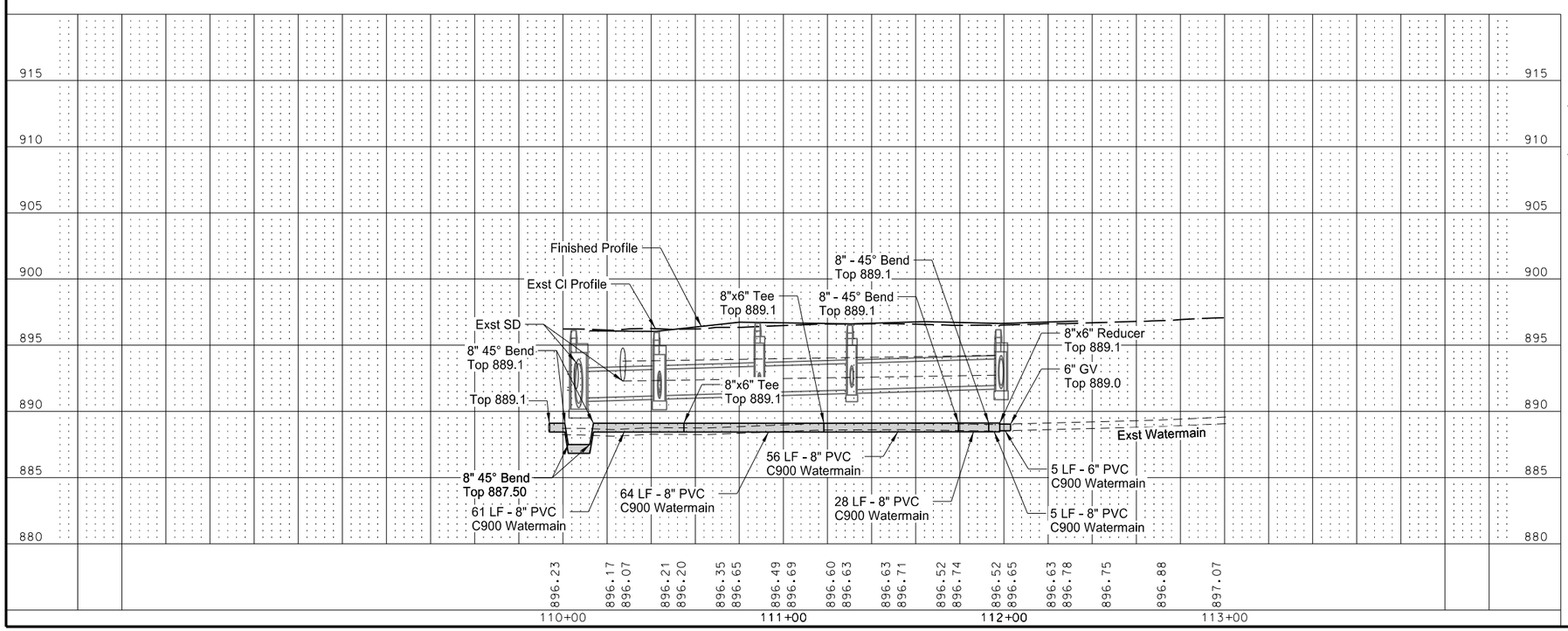
4th Avenue E

Water Layout

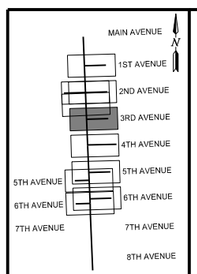
Sta 100+00 to Sta 103+00 (PR4TH)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	24





SPEC	CODE	BID ITEM	QTY UNIT
724	0210	FITTINGS-DUCTILE IRON	
		Sta 110+01 7.2' Lt (8" - 45° Bend)	46 LBS
		Sta 110+03 7.2' Lt (8" - 45° Bend)	46 LBS
		Sta 110+12 7.3' Lt (8" - 45° Bend)	46 LBS
		Sta 110+14 7.4' Lt (8" - 45° Bend)	46 LBS
		Sta 110+55 7.9' Lt (8" x 6" - Tee)	72 LBS
		Sta 111+18 8.7' Lt (8" x 4" - Tee)	60 LBS
		Sta 111+74 9.2' Lt (8" - 45° Bend)	46 LBS
		Sta 111+93 29.2' Lt (8" - 45° Bend)	46 LBS
		Sta 111+98 29.2' Lt (8" x 6" Reducer)	36 LBS
724	0300	GATE VALVE & BOX 6IN	
		Sta 110+55 20.1' Lt	2 EA
		Sta 112+03 29.2' Lt	
724	0411	6IN HYDRANT	
		Sta 110+55 23.1' Lt	1 EA
724	0611	WATER SERVICE LINE 1IN	
		Sta 111+17 8.7' Lt to 111+17 33.3' Lt	25 LF
		Sta 111+55 9.2' Lt to 111+55 22.6' Rt	32 LF
724	0790	WATERMAIN 4IN PVC	
		Sta 111+18 8.7' Lt to 111+18 30.7' Lt	22 LF
724	0810	WATERMAIN 6IN PVC	
		Sta 110+55 7.9' Lt to 110+55 20.5' Lt	5 LF
		Sta 110+55 20.5' Lt to 110+55 23.5' Lt	9 LF
		Sta 111+98 29.2' Lt to 112+03 29.2' Lt	5 LF
724	0830	WATERMAIN 8IN PVC	
		Sta 109+94 7.2' Lt to 110+01 7.2' Lt	7 LF
		Sta 110+01 7.2' Lt to 110+02 7.2' Lt	1 LF
		Sta 110+02 7.2' Lt to 110+12 7.3' Lt	10 LF
		Sta 110+12 7.3' Lt to 110+14 7.4' Lt	2 LF
		Sta 110+14 7.4' Lt to 110+55 7.9' Lt	41 LF
		Sta 110+55 7.9' Lt to 111+18 8.7' Lt	64 LF
		Sta 111+18 8.' Lt to 111+55 9.2' Lt	37 LF
		Sta 111+55 9.2' Lt to 111+74 9.5' Lt	19 LF
		Sta 111+74 9.5' Lt to 111+93 29.2' Lt	28 LF
		Sta 111+93 29.2' Lt to 111+98 29.2' Lt	5 LF
724	0955	WATER SERVICE CONNECTION 1IN	
		Sta 111+17 8.7' Lt, 111+55 9.2' Lt	2 EA
744	0100	POLYSTYRENE INSULATION BOARD	
		Sta 110+08 7.2' Lt	128 BD FT



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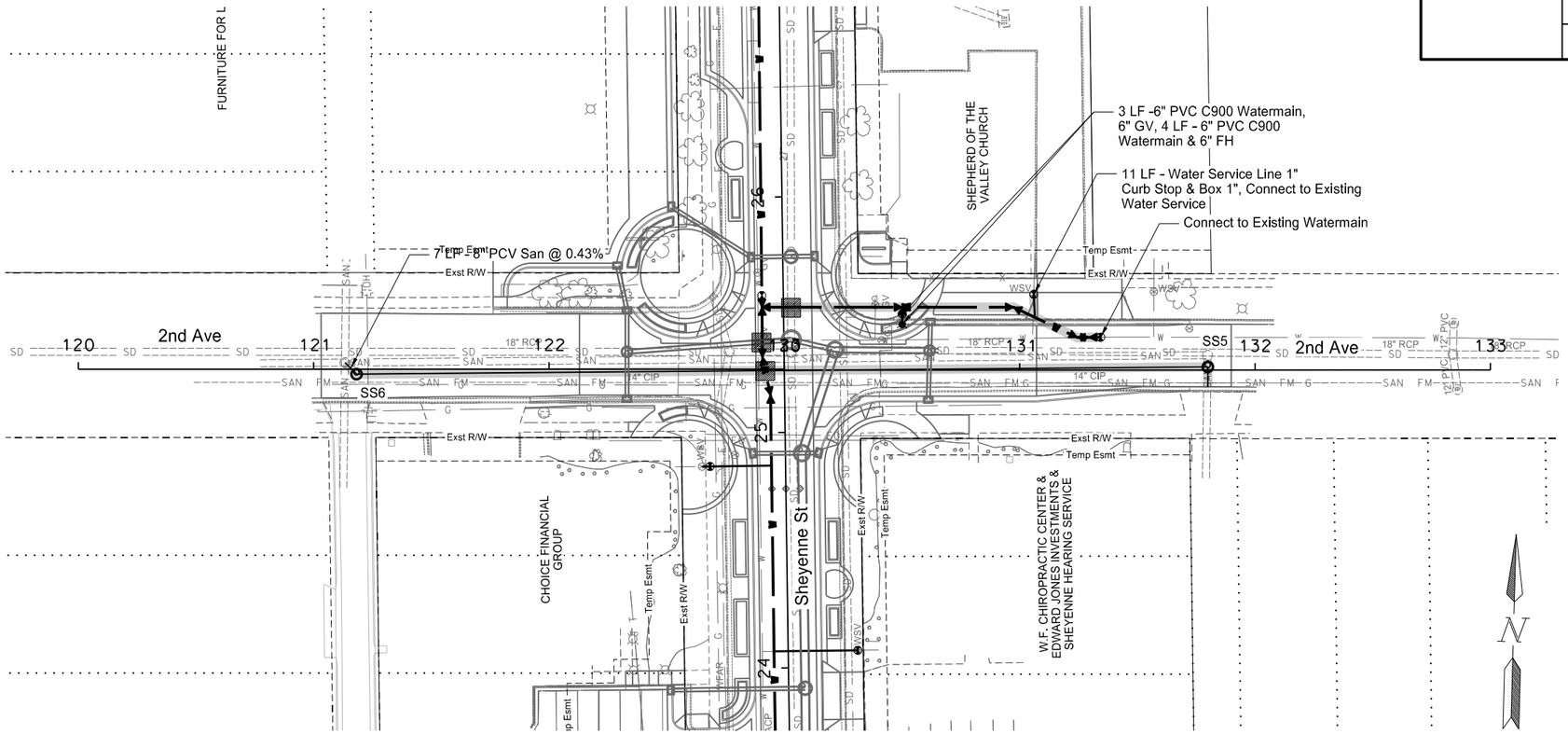
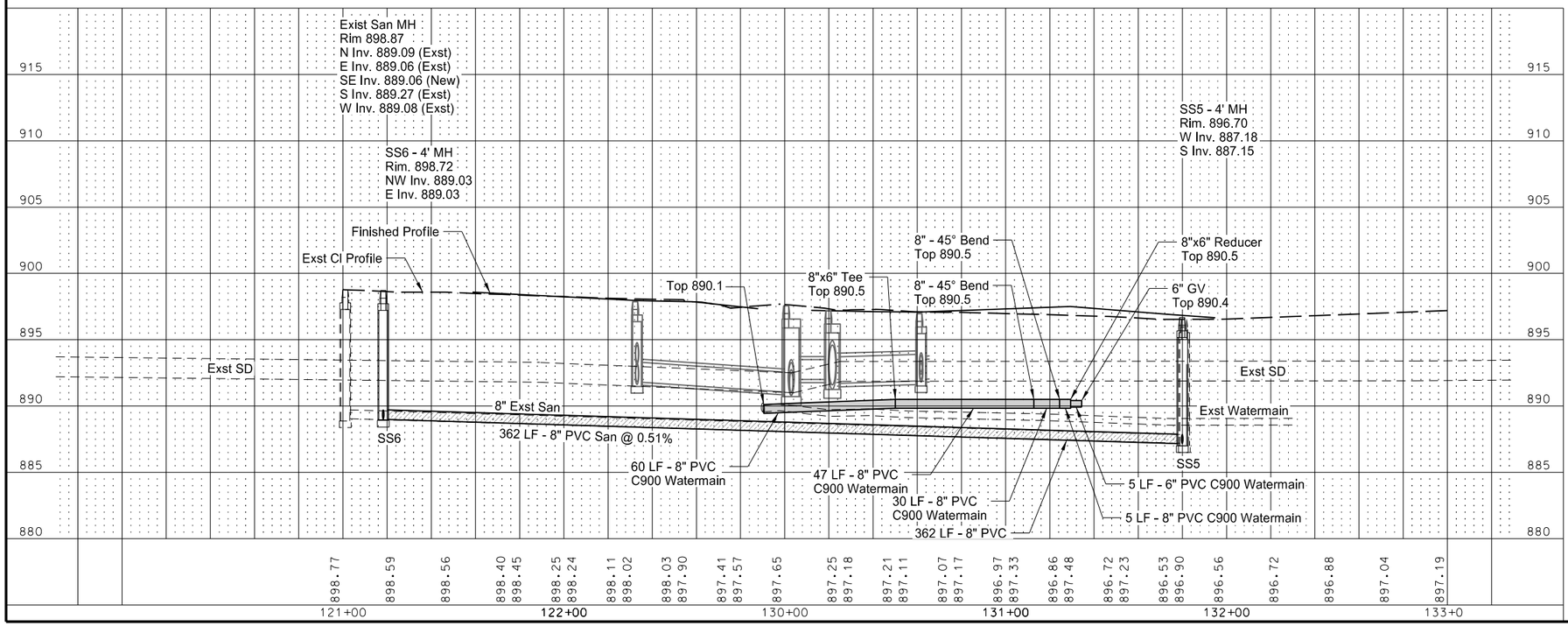
3rd Avenue E

Water Layout

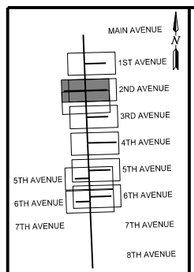
Sta 110+00 to Sta 113+00 (PR3RD)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	25





SPEC	CODE	BID ITEM	QTY	UNIT
722	0300	MANHOLE SANITARY		
		SS5, SS6	2	EA
724	0210	FITTINGS-DUCTILE IRON		
		Sta 130+50 26.8' Lt (8" x 6" - Tee)	72	LBS
		Sta 130+97 26.8' Lt (8" - 22.5° Bend)	46	LBS
		Sta 131+24 13.9' Lt (8" - 22.5° Bend)	46	LBS
		Sta 131+29 13.9' Lt (8" x 6" - Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 130+50 23.9' Lt	2	EA
		Sta 131+34 13.9' Lt		
724	0411	6IN HYDRANT		
		Sta 130+50 20.9' Lt	1	EA
724	0611	WATER SERVICE LINE 1IN		
		131+06 22.4' Lt to 131+06 32.5' Lt	11	LF
724	0810	WATERMAIN 6IN PVC		
		Sta 130+50 26.8' Lt to 130+50 23.9' Lt	3	LF
		Sta 130+50 23.9' Lt to 130+50 20.9' Lt	4	LF
		Sta 131+29 13.9' Lt to 131+34 13.9' Lt	5	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 122+91 26.3' Lt to 130+50 26.8' Lt	60	LF
		Sta 130+50 26.8' Lt to 130+97 26.8' Lt	47	LF
		Sta 130+97 26.8' Lt to 131+06 22.4' Lt	10	LF
		Sta 131+06 22.4' Lt to 131+24 13.9' Lt	20	LF
		Sta 131+24 13.9' Lt to 131+29 13.9' Lt	5	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 131+06 22.4' Lt	1	EA
724	1110	8IN SANITARY SEWER PIPE		
		Sta 121+13 2.9' Lt to SS6	7	LF
		SS6 to SS5	362	LF
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 123+03 9.1' Lt	128	BD FT



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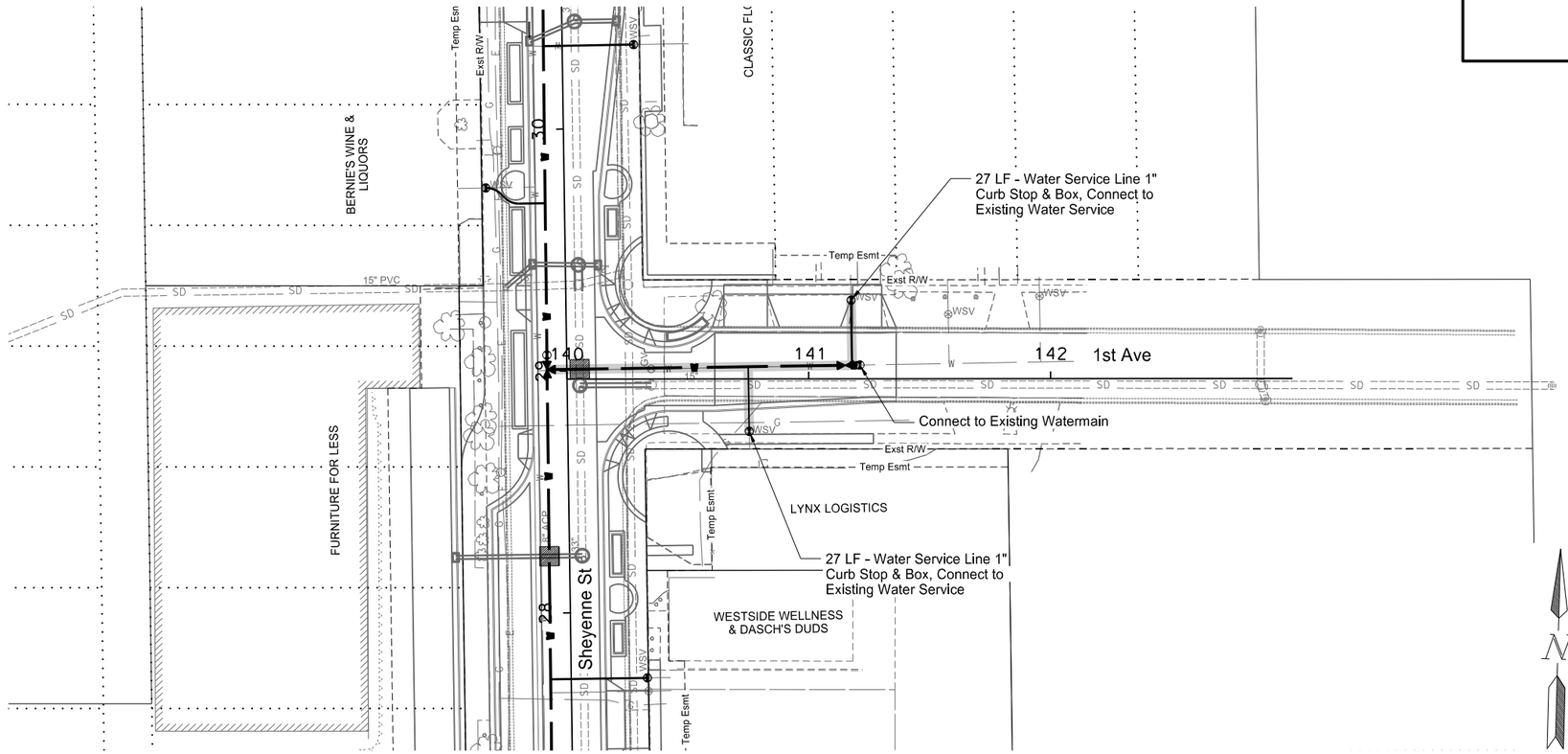
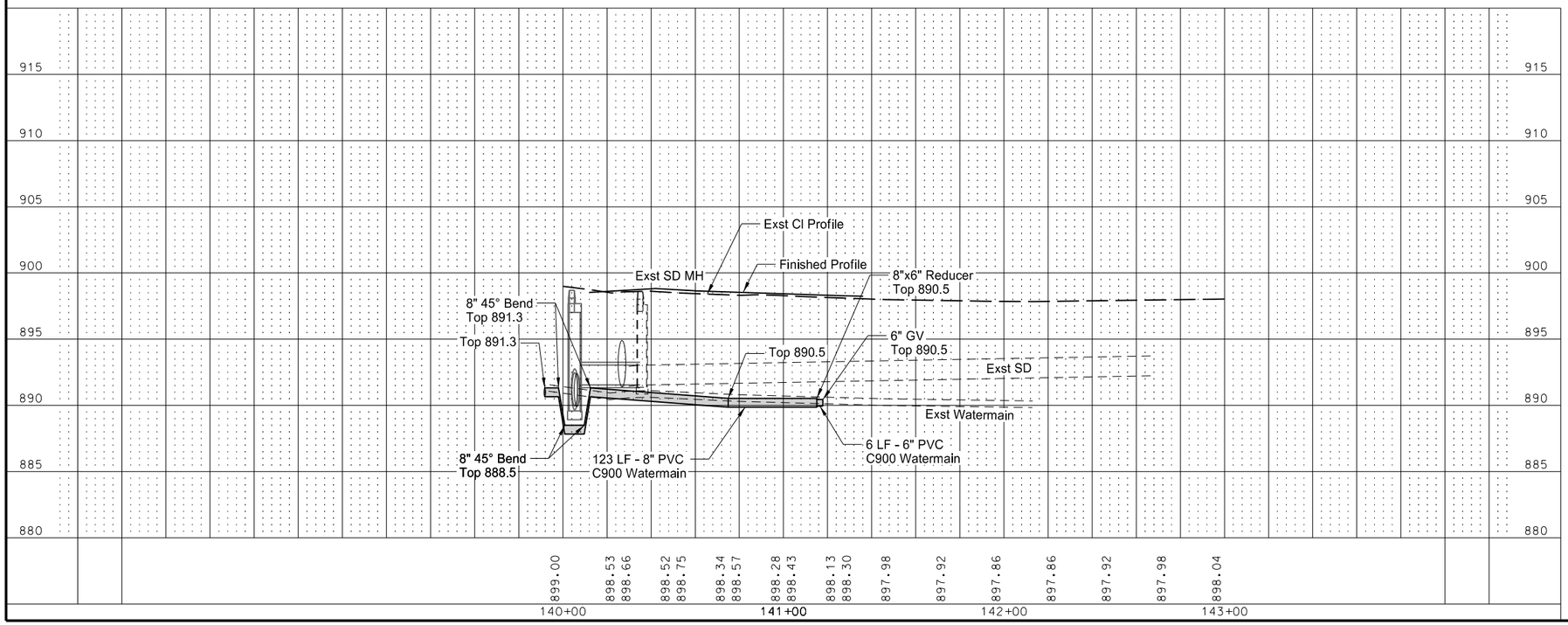
2nd Avenue W

Water Layout

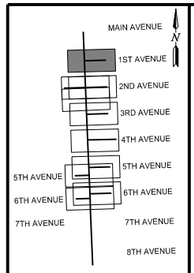
Sta 120+00 to Sta 122+00 (PR2ND_W)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	55	26





SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 139+98 4.0' Lt (8" - 45° Bend)	46	LBS
		Sta 140+01 4.0' Lt (8" - 45° Bend)	46	LBS
		Sta 140+10 4.1' Lt (8" - 45° Bend)	46	LBS
		Sta 140+13 4.2' Lt (8" - 45° Bend)	46	LBS
		Sta 141+15 5.6' Lt (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 141+21 5.6' Lt	1	EA
724	0611	WATER SERVICE LINE 1IN		
		Sta 140+75 5.0' Lt to 140+75 22.0' Rt	27	LF
		Sta 141+18 5.6' Lt to 141+18 32.6' Lt	27	LF
724	0810	WATERMAIN 6IN PVC		
		Sta 141+15 5.6' Lt to 141+18 5.6' Lt	3	LF
		Sta 141+18 5.6' Lt to 141+21 5.6' Lt	3	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 139+92 4.0' Lt to 139+98 4.0' Lt	6	LF
		Sta 139+98 4.0' Lt to 140+01 4.0' Lt	3	LF
		Sta 140+01 4.0' Lt to 140+10 4.1' Lt	9	LF
		Sta 140+10 4.1' Lt to 140+13 4.2' Lt	3	LF
		Sta 140+13 4.2' Lt to 140+75 5.0' Lt	62	LF
		Sta 140+75 5.0' Lt to 141+15 5.6' Lt	40	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 140+75 5.0' Lt, 141+18 5.6' Lt	2	EA
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 140+06 4.0' Lt	128	BD FT



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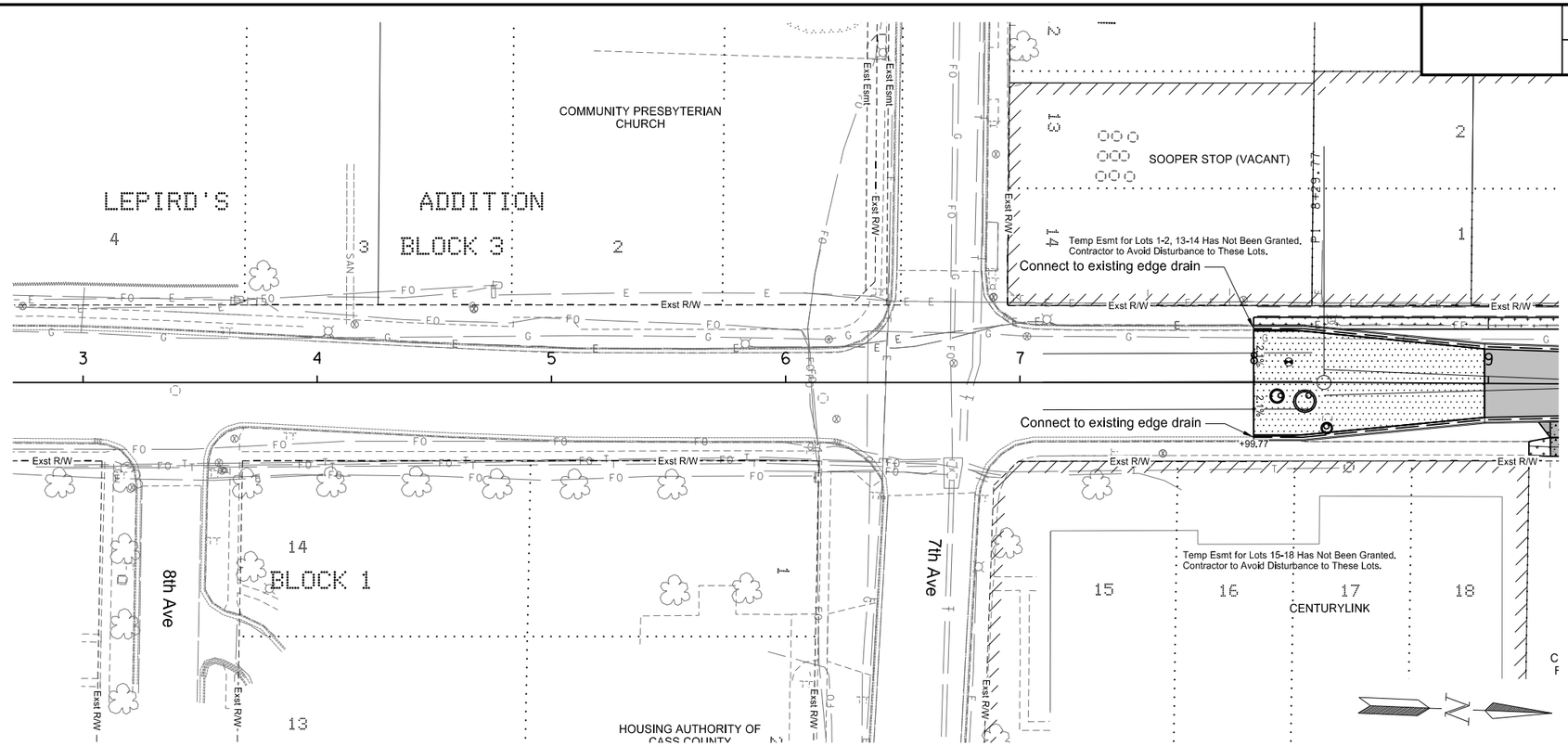
1st Avenue E

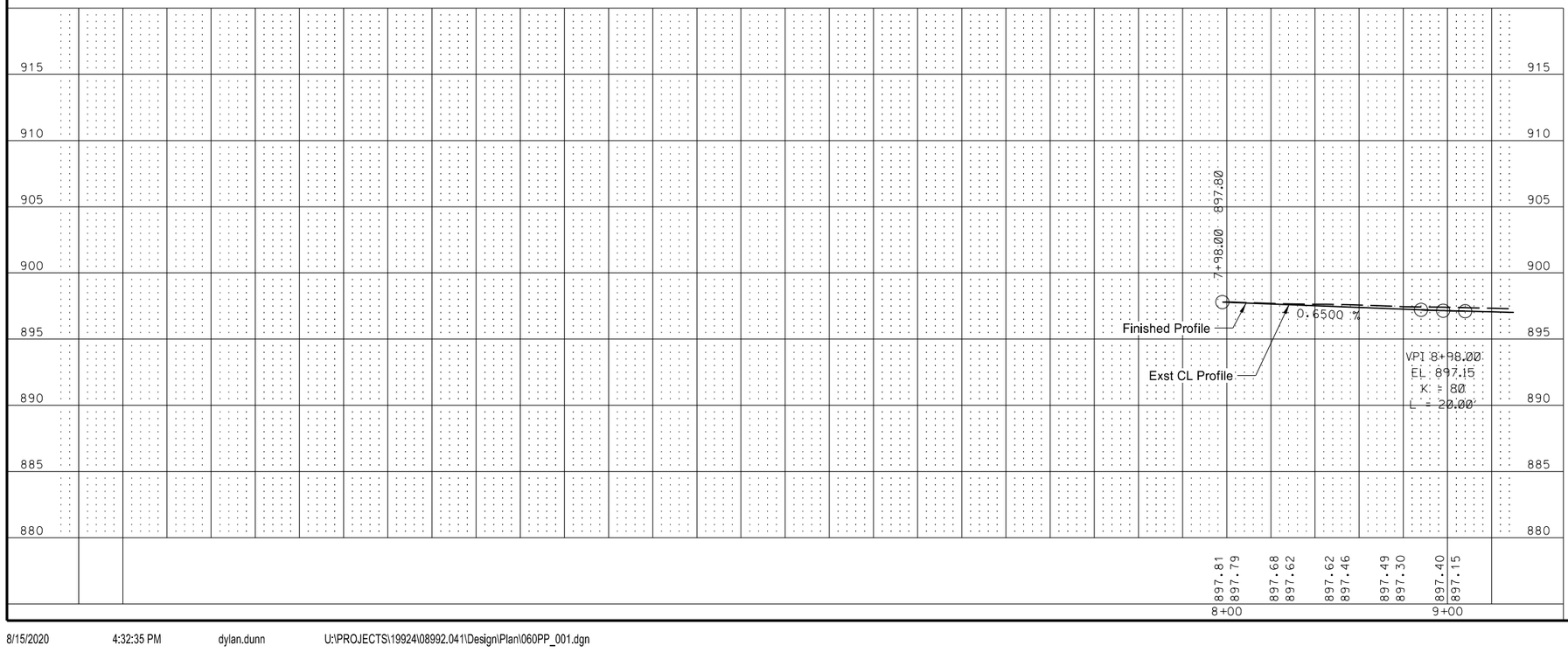
Water Layout

Sta 140+00 to Sta 142+00 (PR1ST)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	1

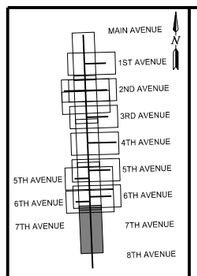
SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 8+00 to 9+00	504	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 7+99 23.0' Lt to 9+00 15.6' Lt	100	LF
		Sta 7+99 23.0' Rt to 9+00 15.6' Rt	100	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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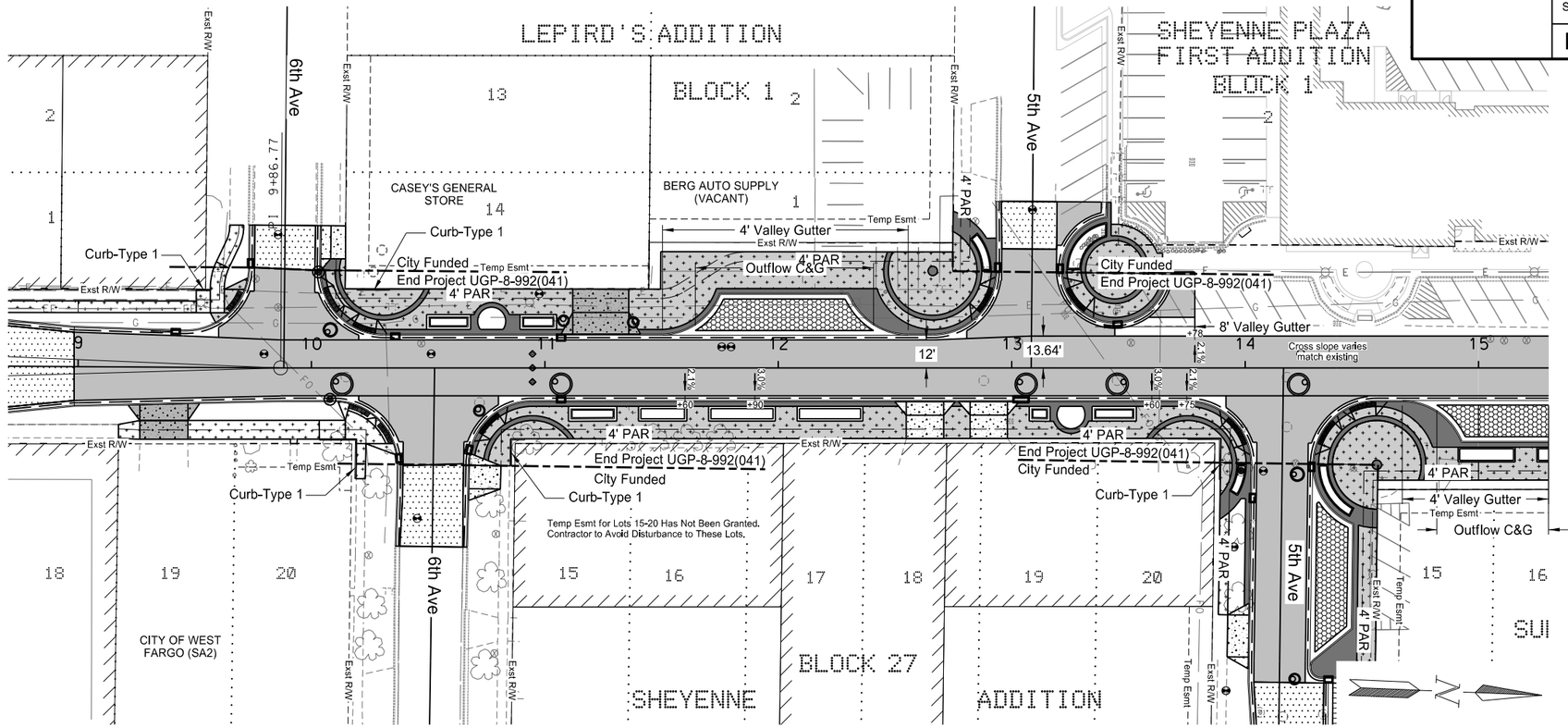
Sheyenne Street

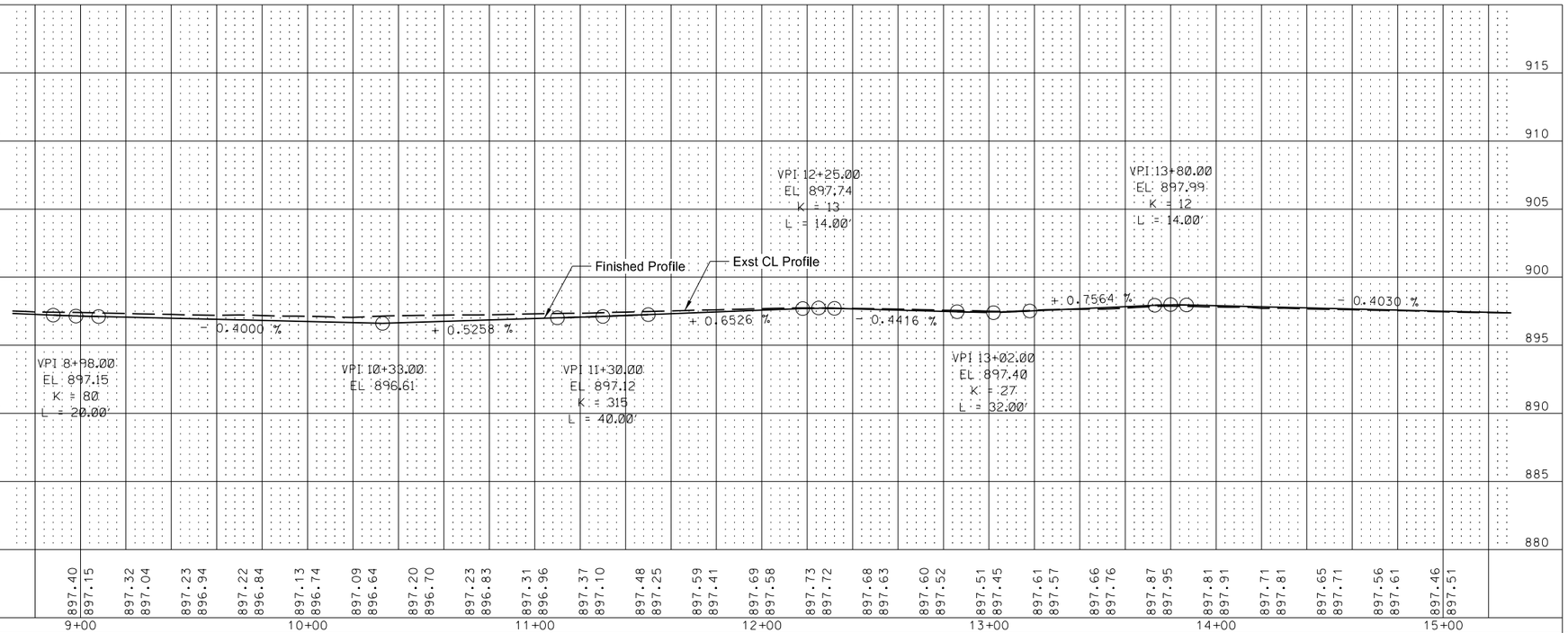
Plan and Profile

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	2

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 9+00 to 15+00	2790	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 9+00 15.6' Lt to 9+74 42.9' Lt	91	LF
		Sta 9+00 15.6' Rt to 10+38 41.3' Rt	154	LF
		Sta 10+02 41.7' Lt to 12+95 41.2' Lt	325	LF
		Sta 10+66 41.1' Rt to 14+04 40.7' Rt	370	LF
		Sta 13+20 40.9' Lt to 13+68 37.5' Lt	68	LF
		Sta 14+28 41.1' Rt to 15+00 13.0' Rt	88	LF





LEGEND

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- DRIVEWAY CONCRETE 7IN REINFORCED
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- SIDEWALK CONCRETE 5IN REINF
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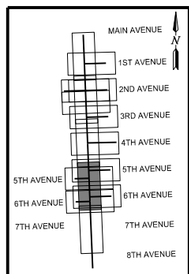
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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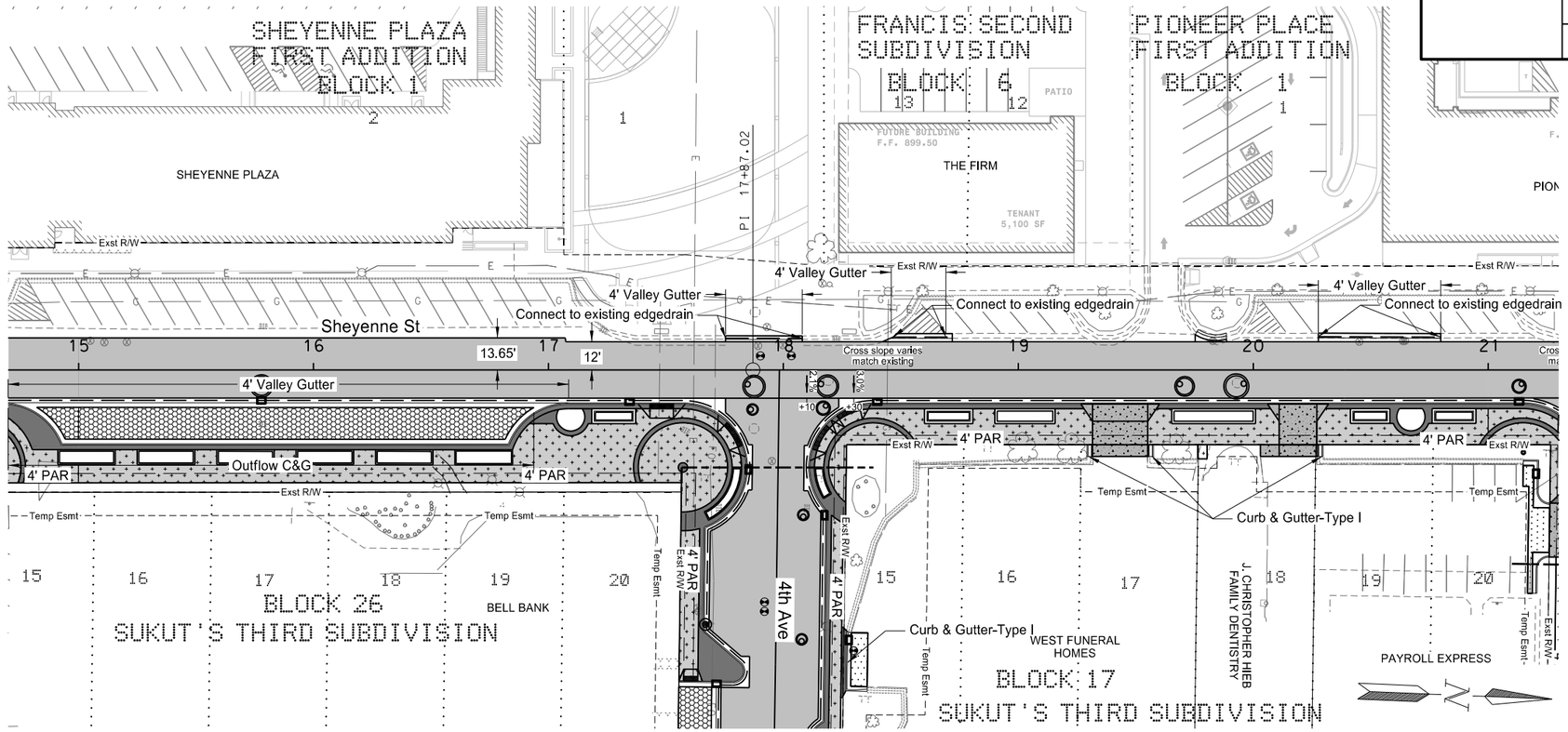
Sheyenne Street

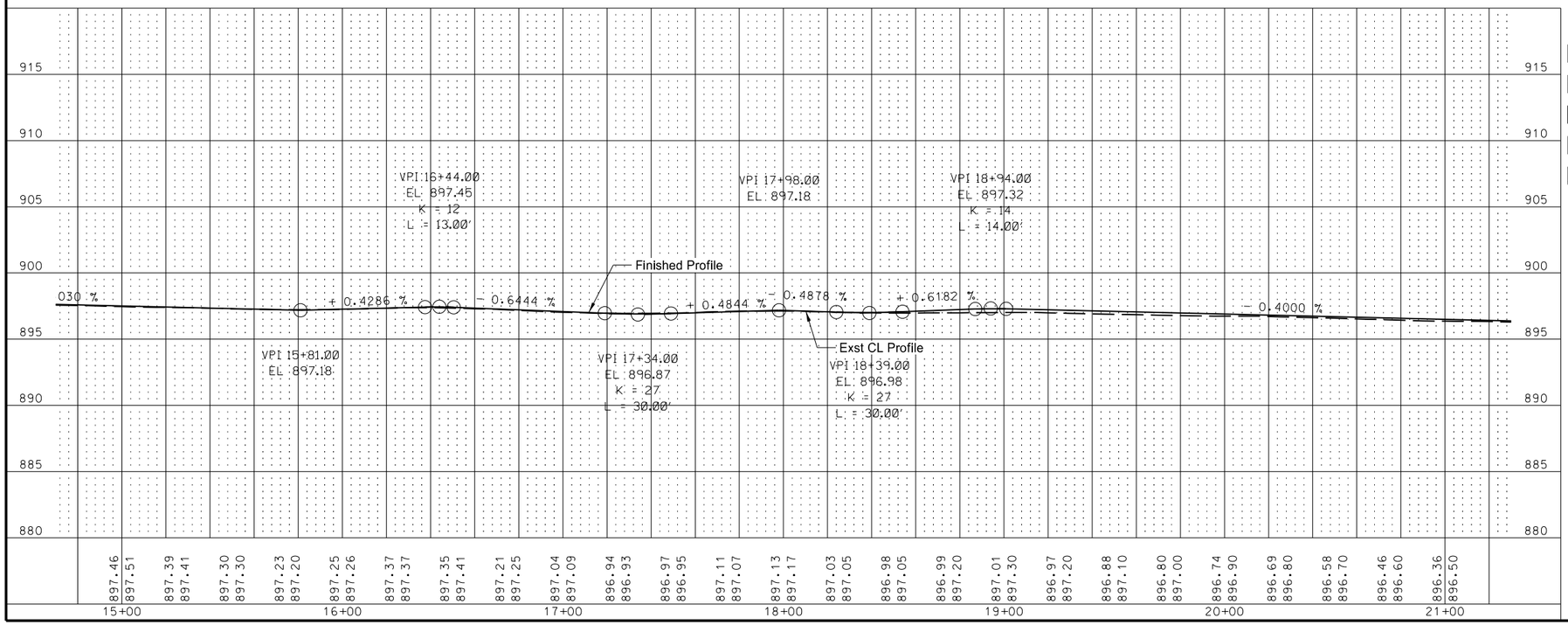
Plan and Profile

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	3

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 15+00 to 21+00	2515	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 15+00 13.0' Rt to 17+86 41.5' Rt	302	LF
		Sta 17+75 13.0' Lt to 18+08 13.0' Lt	45	LF
		Sta 18+10 68.6' Rt to 21+00 13.0' Rt	307	LF
		Sta 18+46 13.5' Lt to 18+71 13.5' Lt	25	LF
		Sta 20+28 13.5' Lt to 20+79 13.5' Lt	52	LF





LEGEND

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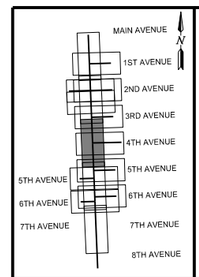

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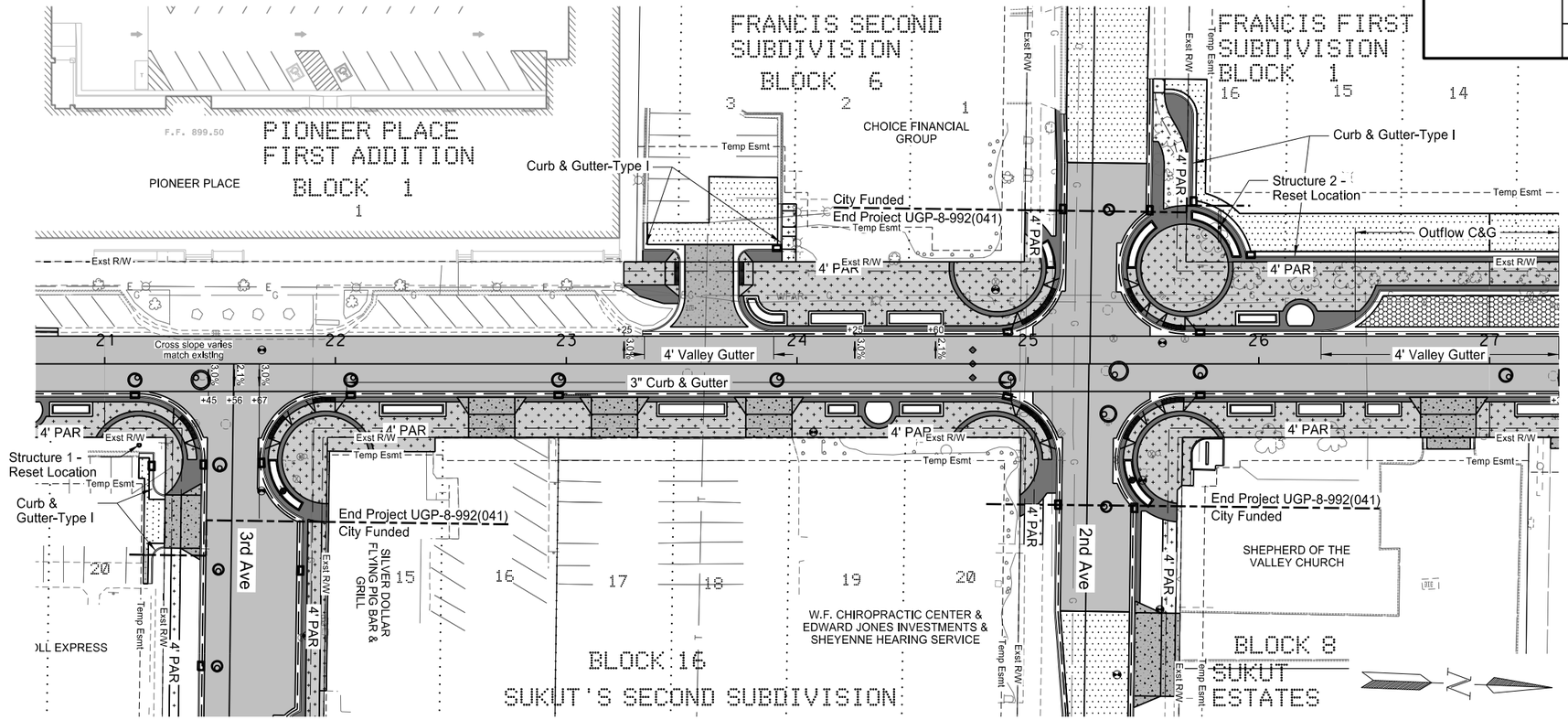
Sheyenne Street

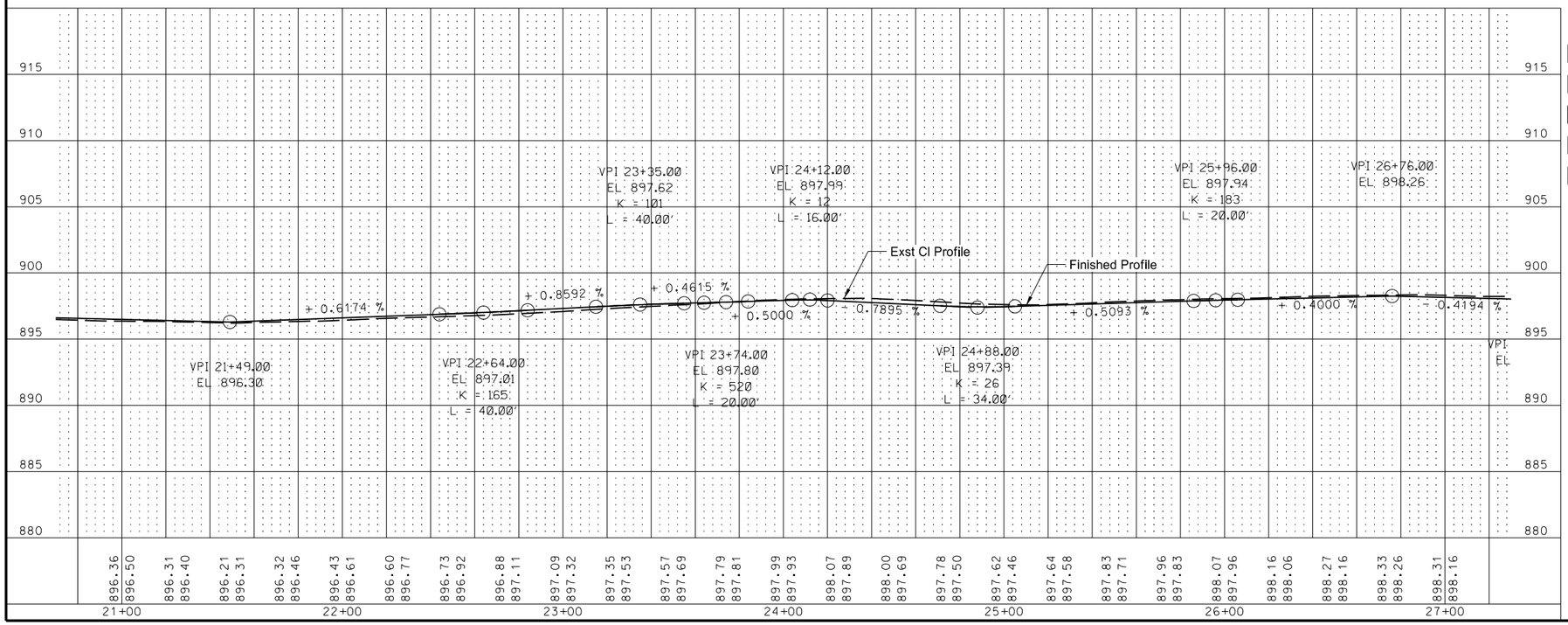
Plan and Profile

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	4

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 21+00 to Sta 27+00	2795	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 21+00 13.0' Rt to 21+43 84.7' Rt	101	LF
		Sta 21+84 67.6' Rt to 25+13 61.0' Rt	432	LF
		Sta 23+33 13.0' Lt to 25+16 66.3' Lt	223	LF
		Sta 25+45 61.0' Rt to 27+00 13.0' Rt	140	LF
		Sta 25+52 65.3' Lt to 27+00 13.0' Lt	206	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
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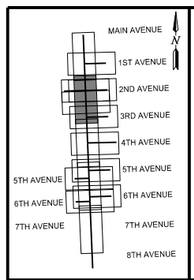

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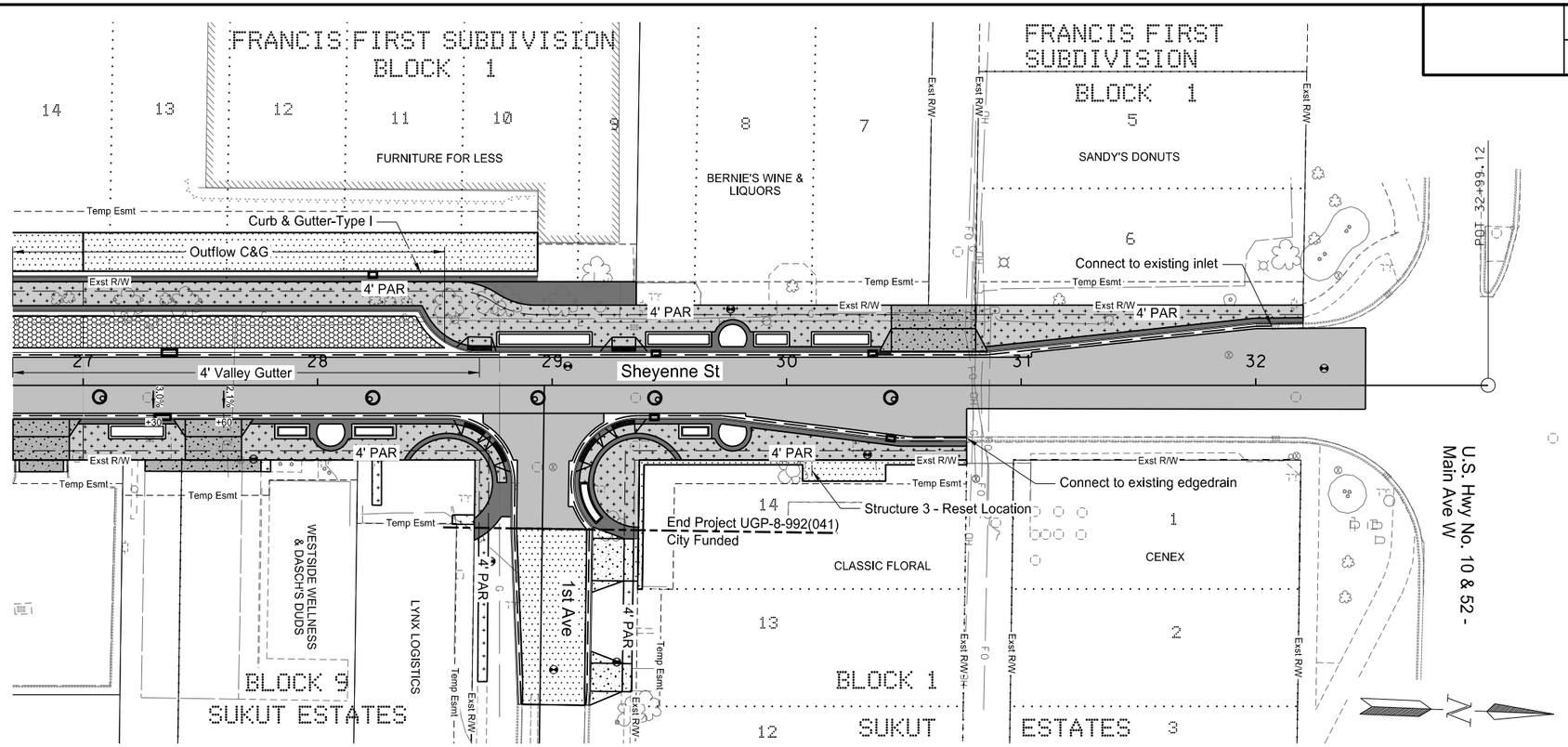
Sheyenne Street

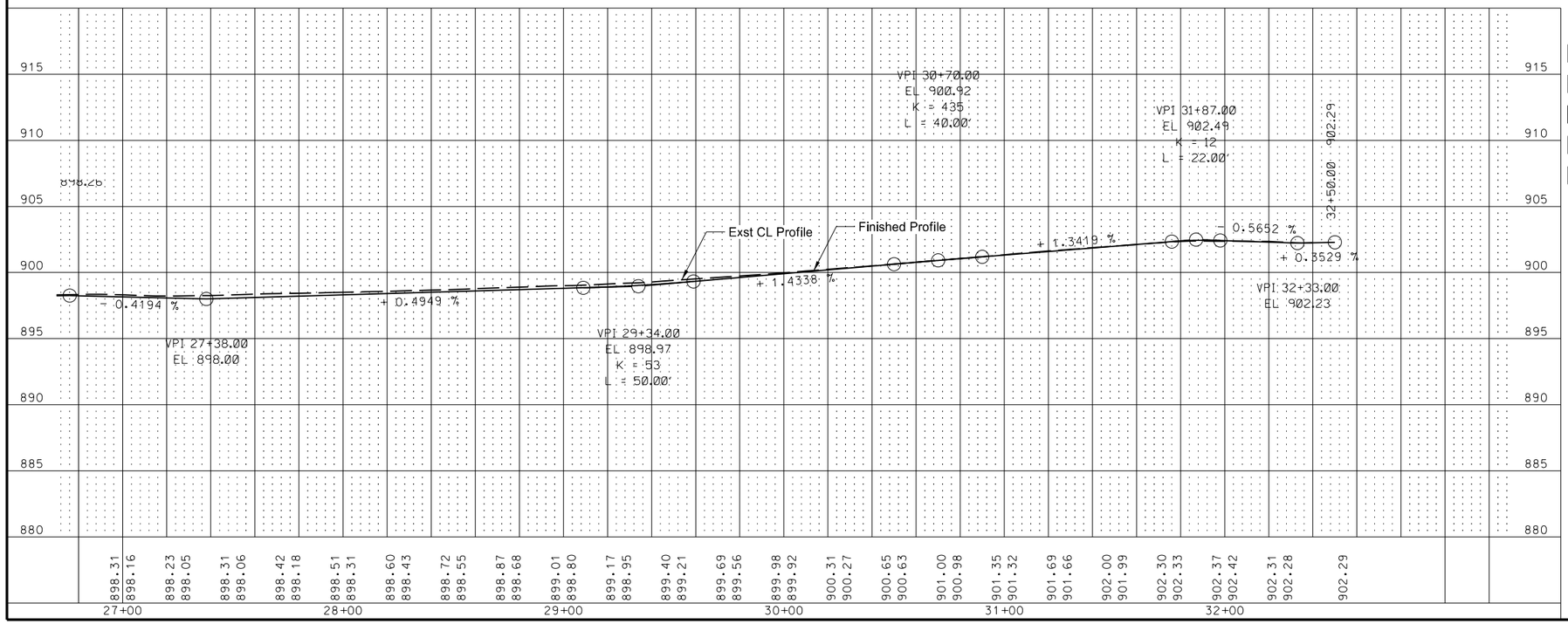
Plan and Profile

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	5

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 27+00 to Sta 32+08	2455	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 21+00 13.0' Lt to 32+07 25.2' Lt	507	LF
		Sta 21+00 13.0' Rt to 28+84 61.0' Rt	220	LF
		Sta 29+15 61.0' Rt to Sta 30+76 23.' Rt	204	LF





LEGEND

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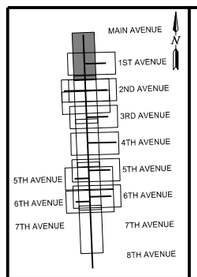

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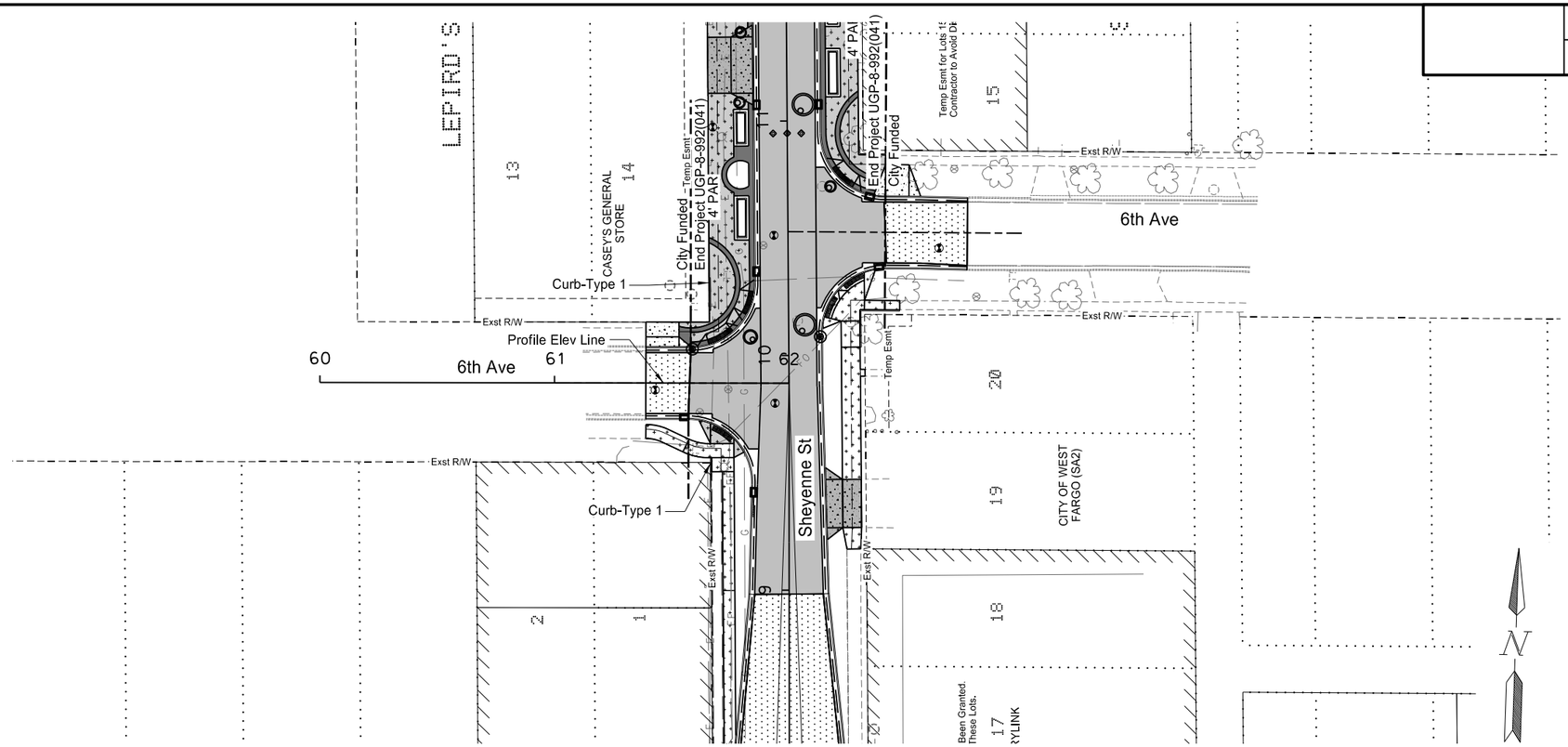
Sheyenne Street

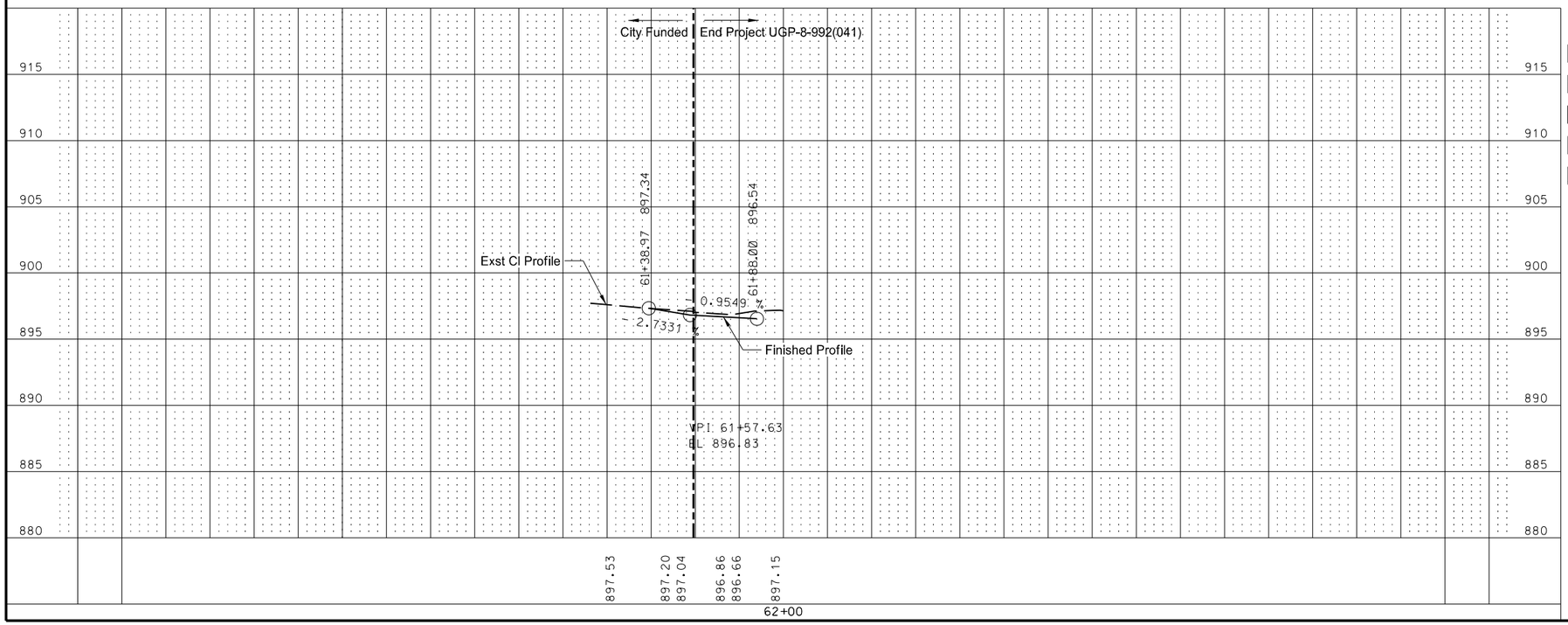
Plan and Profile

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	6

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 61+39 to 61+58 (City Funded)	68	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 61+39 14.0' Rt to 61+57 14.0' Rt (City Funded)	18	LF
		Sta 61+39 14.0' Rt to 61+58 14.0' Rt (City Funded)	19	LF





LEGEND

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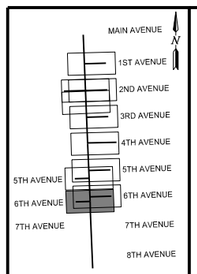

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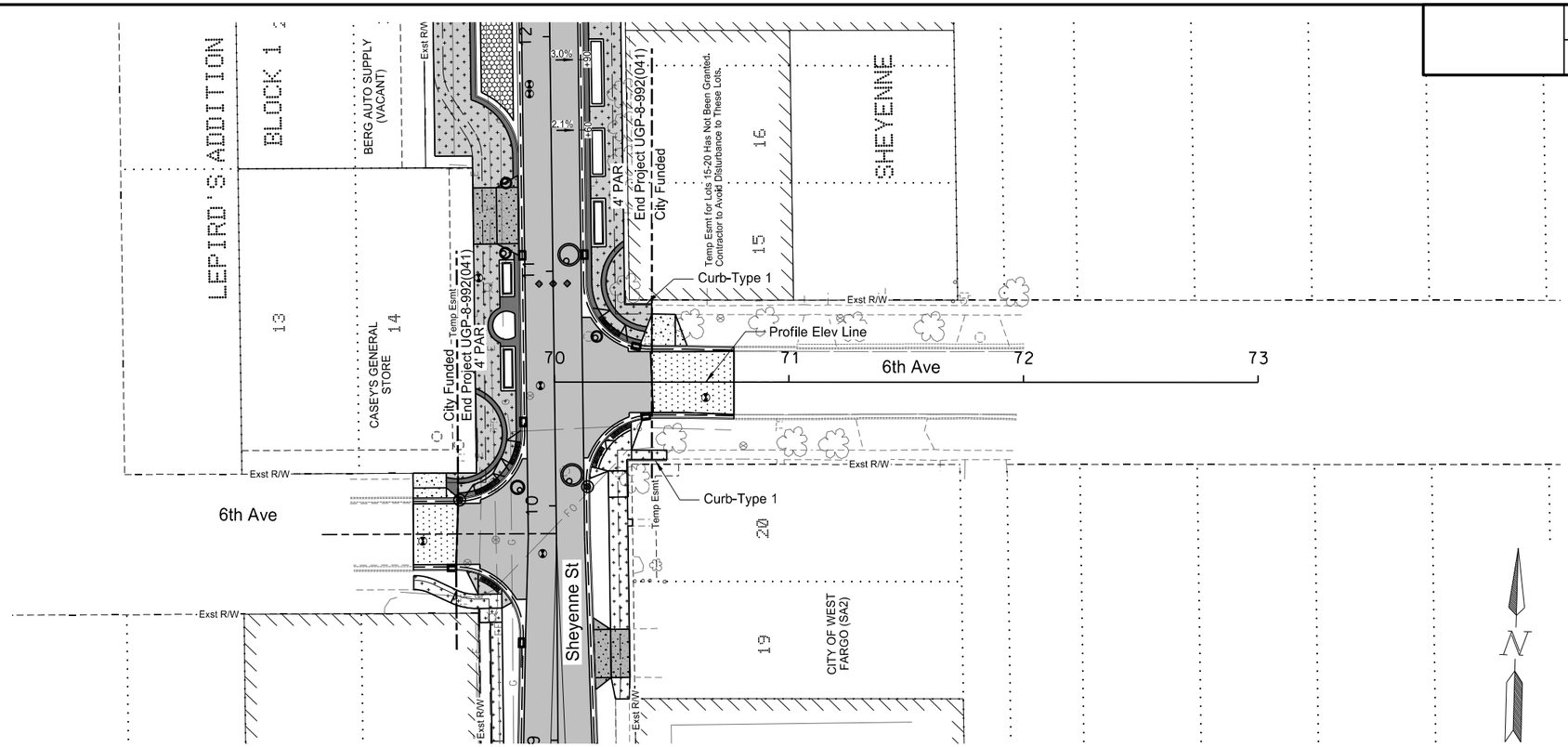
6th Avenue W

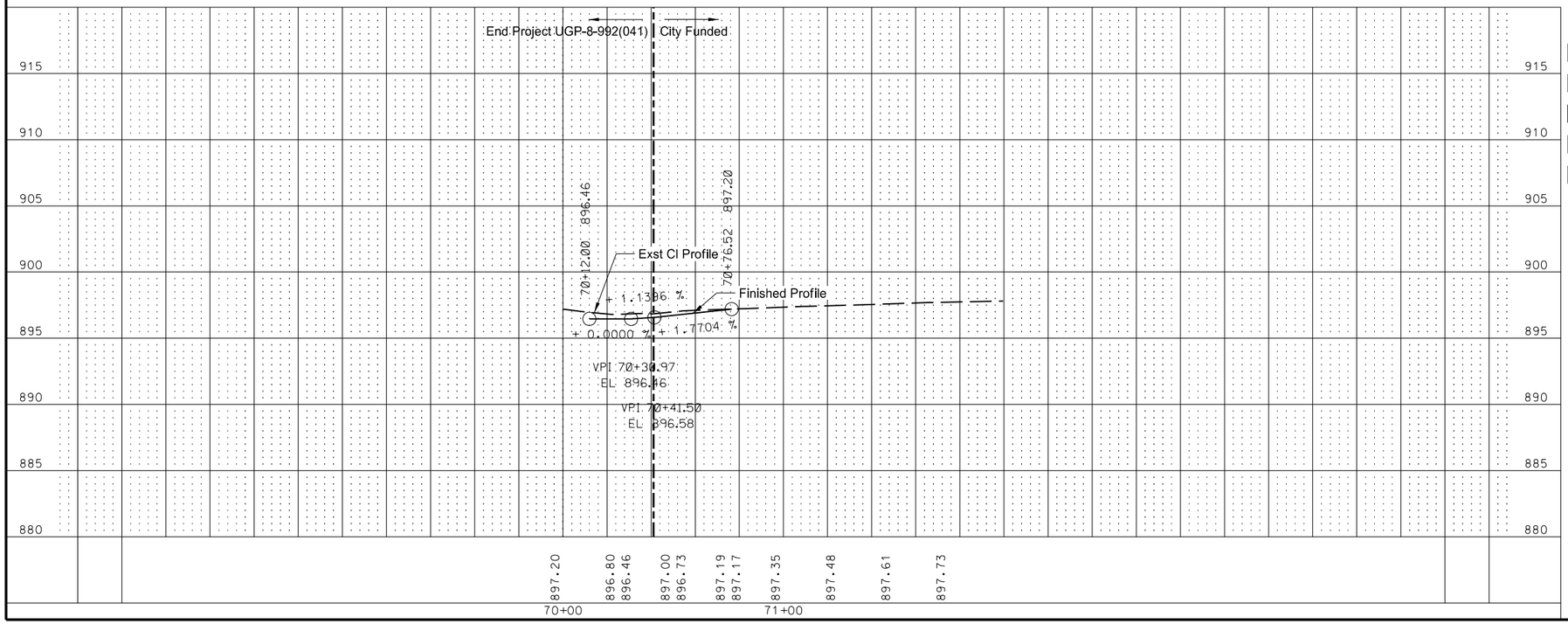
Plan and Profile

Sta 60+00 to Sta 62+00 (PR6TH_W)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	7

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 70+41 to 70+76 (City Funded)	128	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 70+41 14.1' Rt to 70+76 14.3' Rt (City Funded)	34	LF
		Sta 70+41 14.0' Lt to 70+76 13.6' Lt (City Funded)	36	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
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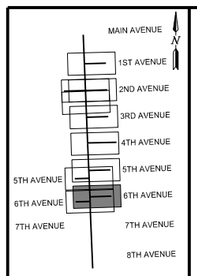

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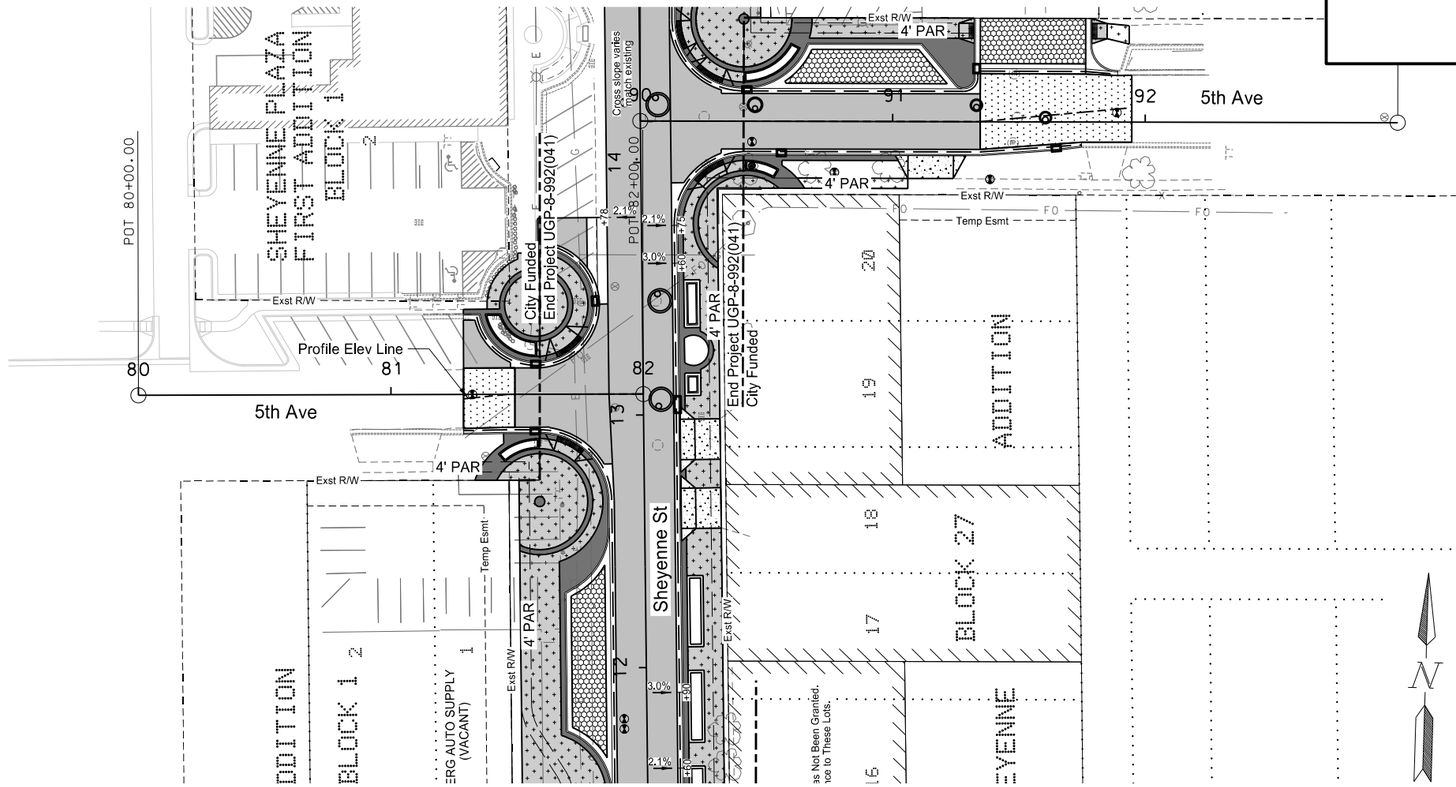
6th Avenue E

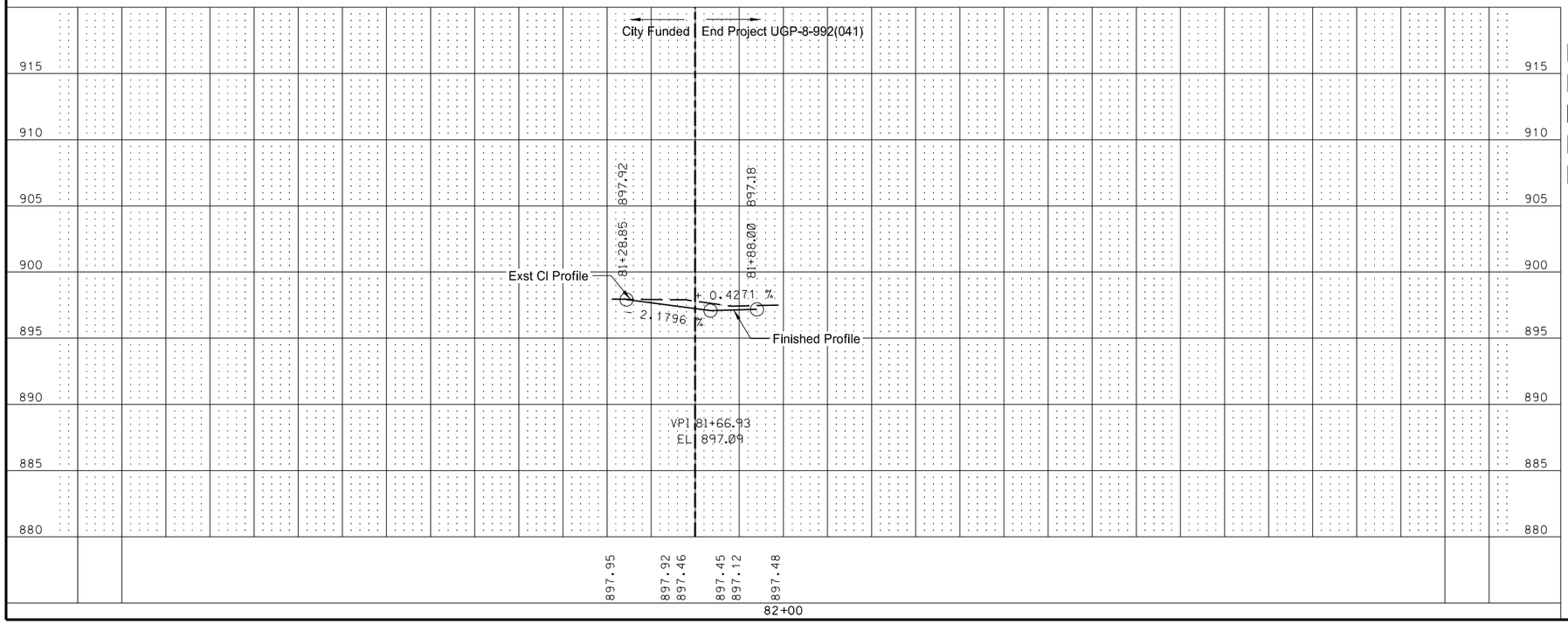
Plan and Profile

Sta 70+00 to Sta 72+00 (PR6TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	8

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 81+29 to 81+59 (City Funded)	121	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 81+34 30.8' Lt to 81+59 11.5' Lt (City Funded)	34	LF
		Sta 81+29 14.3' Rt to 81+59 14.0' Rt (City Funded)	30	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
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- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
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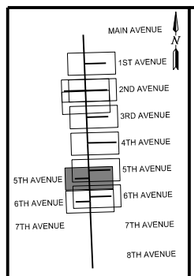

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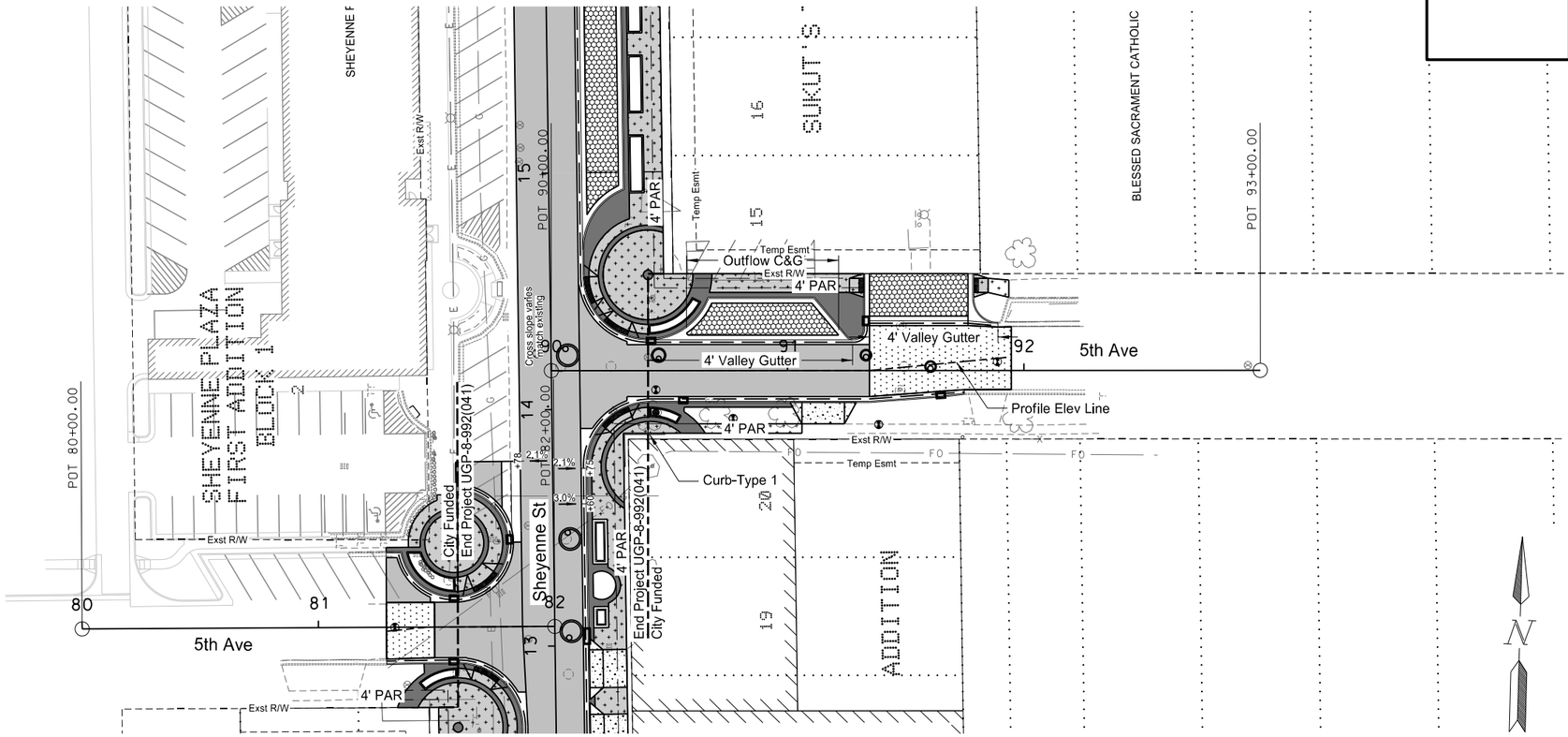
5th Avenue W

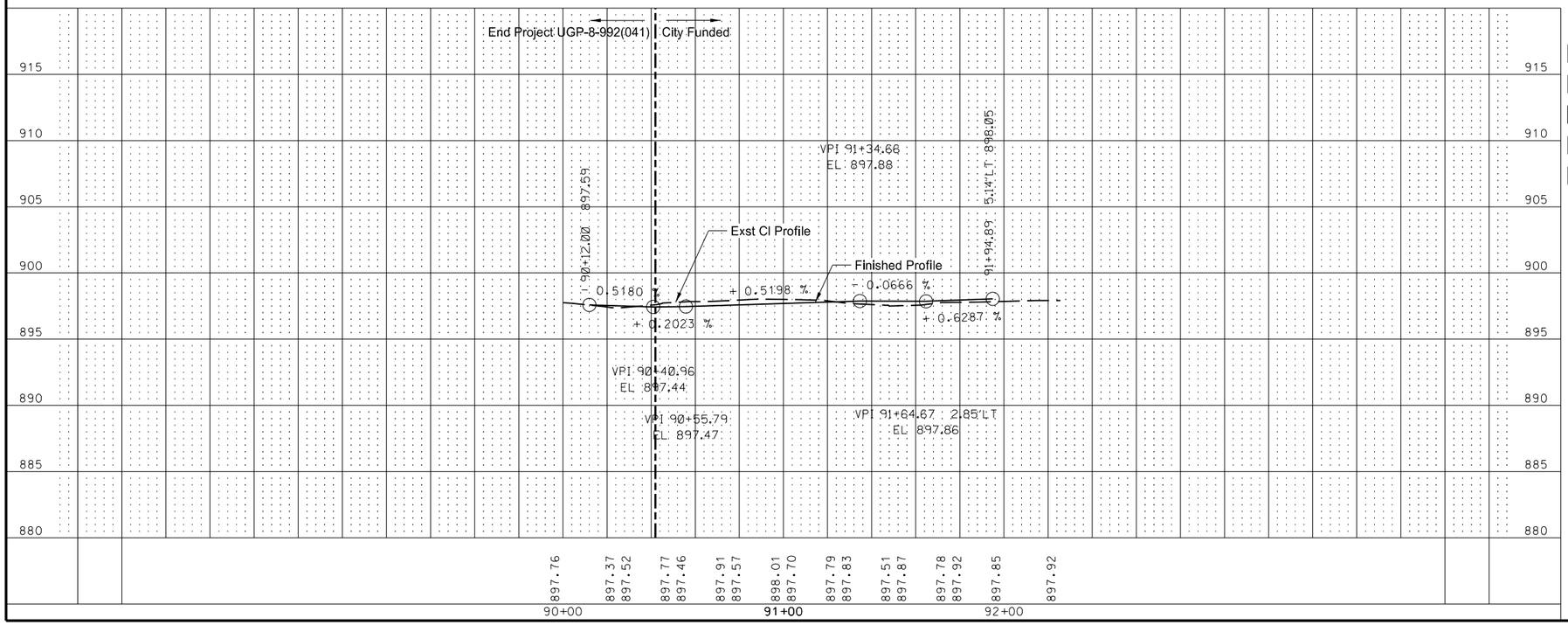
Plan and Profile

Sta 80+00 to Sta 82+00 (PR5TH_W)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	9

SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 90+41 to 91+95 (City Funded)	747	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 90+41 12.0' Rt to 91+75 9.1' Rt (City Funded)	134	LF
		Sta 90+41 12.0' Lt to 91+89 18.9' Lt (City Funded)	149	LF





LEGEND

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- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
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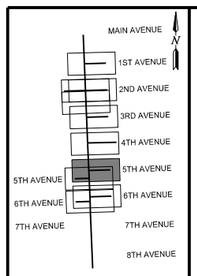

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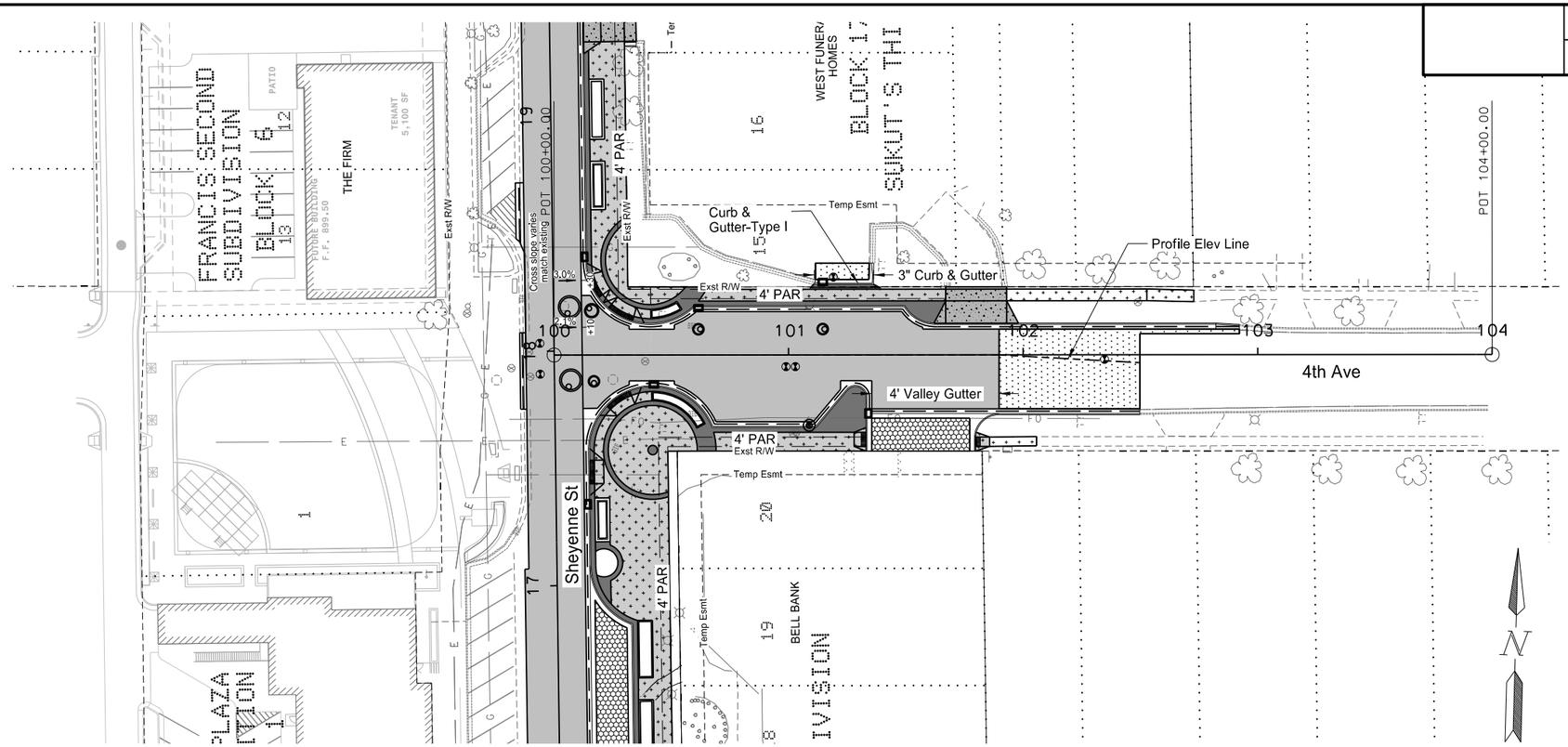
5th Avenue E

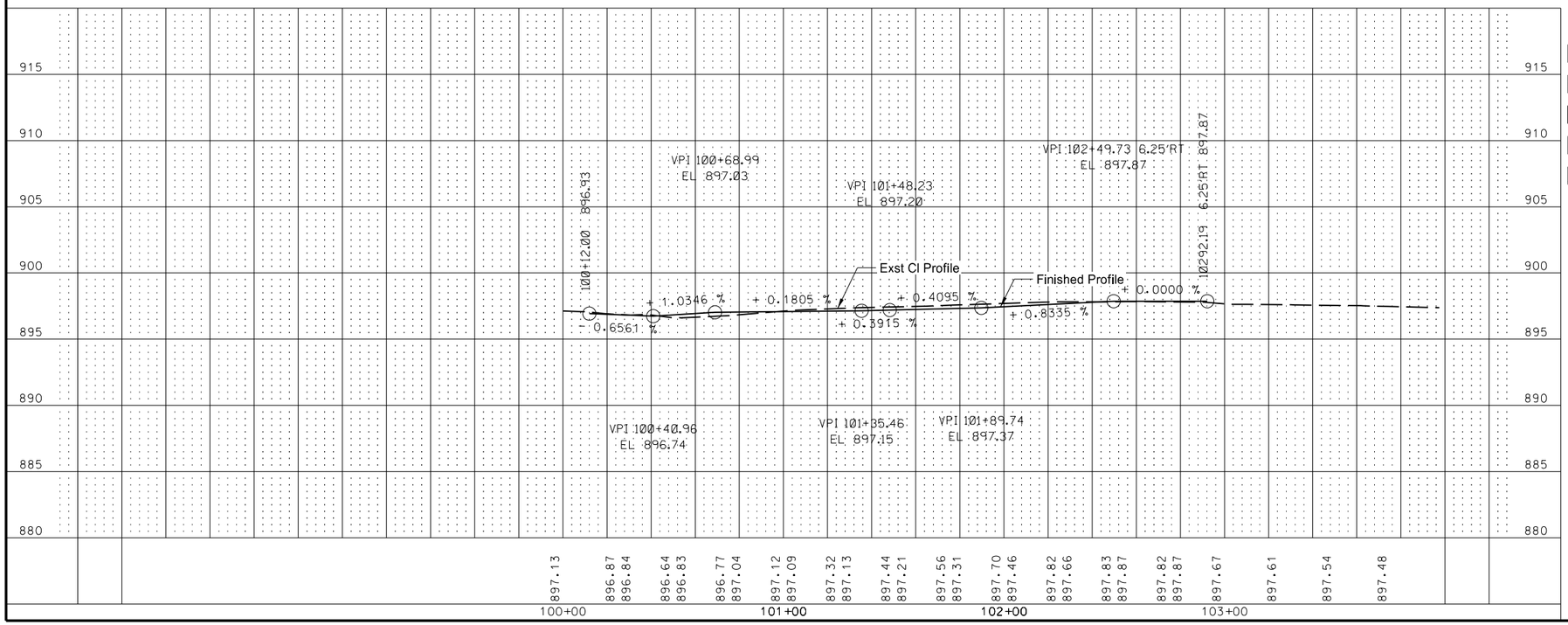
Plan and Profile

Sta 90+00 to Sta 92+00 (PR5TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	10

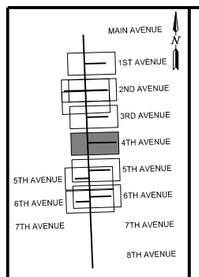
SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 100+41 to 102+50 (City Funded)	991	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 100+42 12.0' Rt to 102+50 24.0' Rt (City Funded)	258	LF
		Sta 100+42 12.0' Lt to 102+92 12.0' Lt (City Funded)	225	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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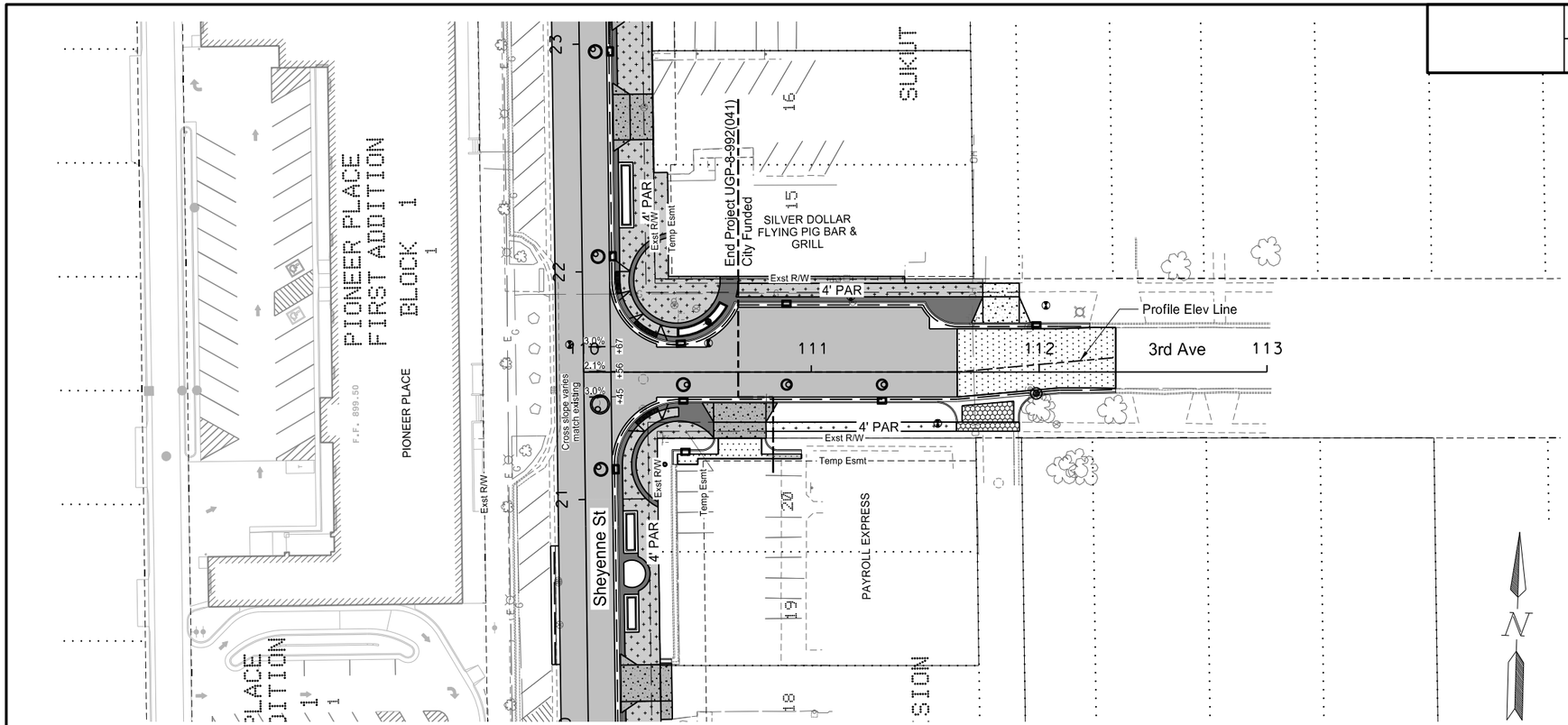
4th Avenue E

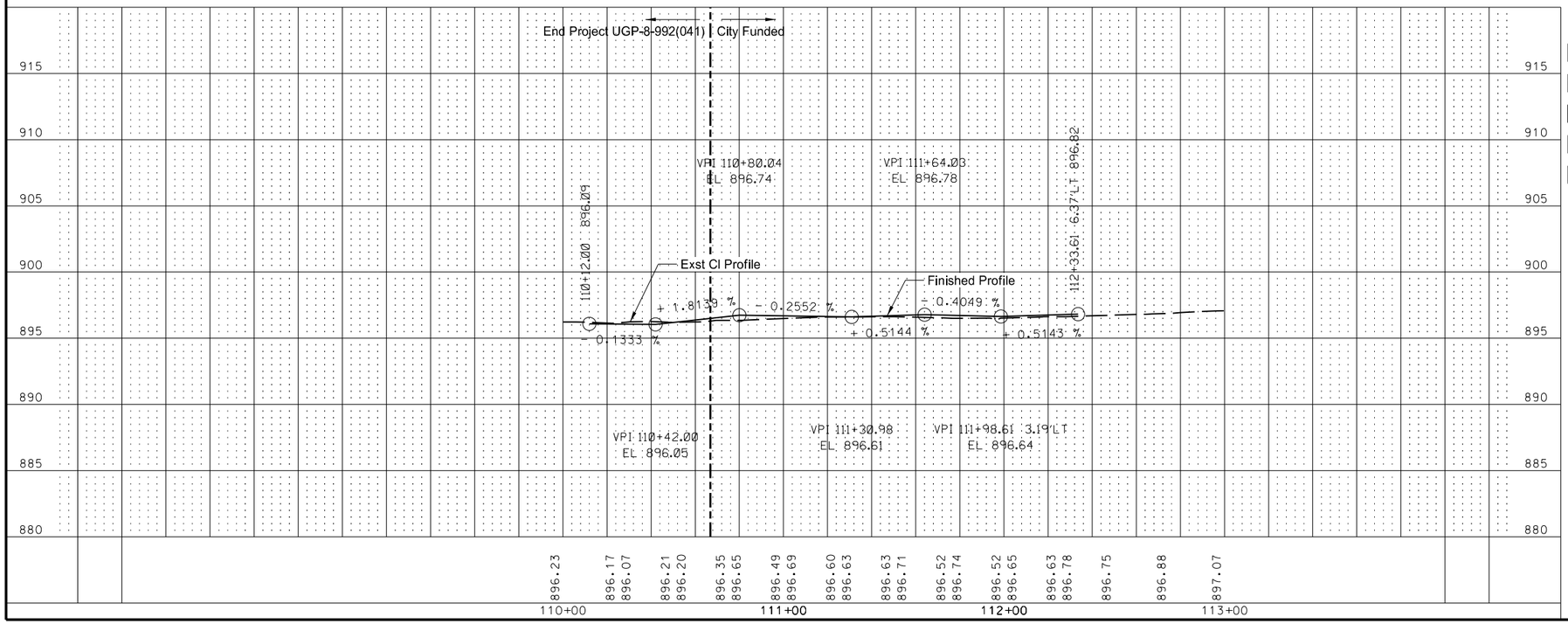
Plan and Profile

Sta 100+00 to Sta 103+00 (PR4TH)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	11

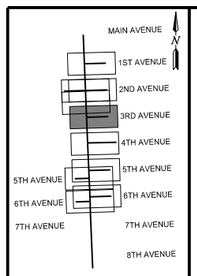
SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 110+67 to 112+34 (City Funded)	748	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 110+85 12.0' Rt to 112+33 7.8' Rt (City Funded)	151	LF
		Sta 110+67 29.5' Lt to 112+22 20.0' Lt (City Funded)	158	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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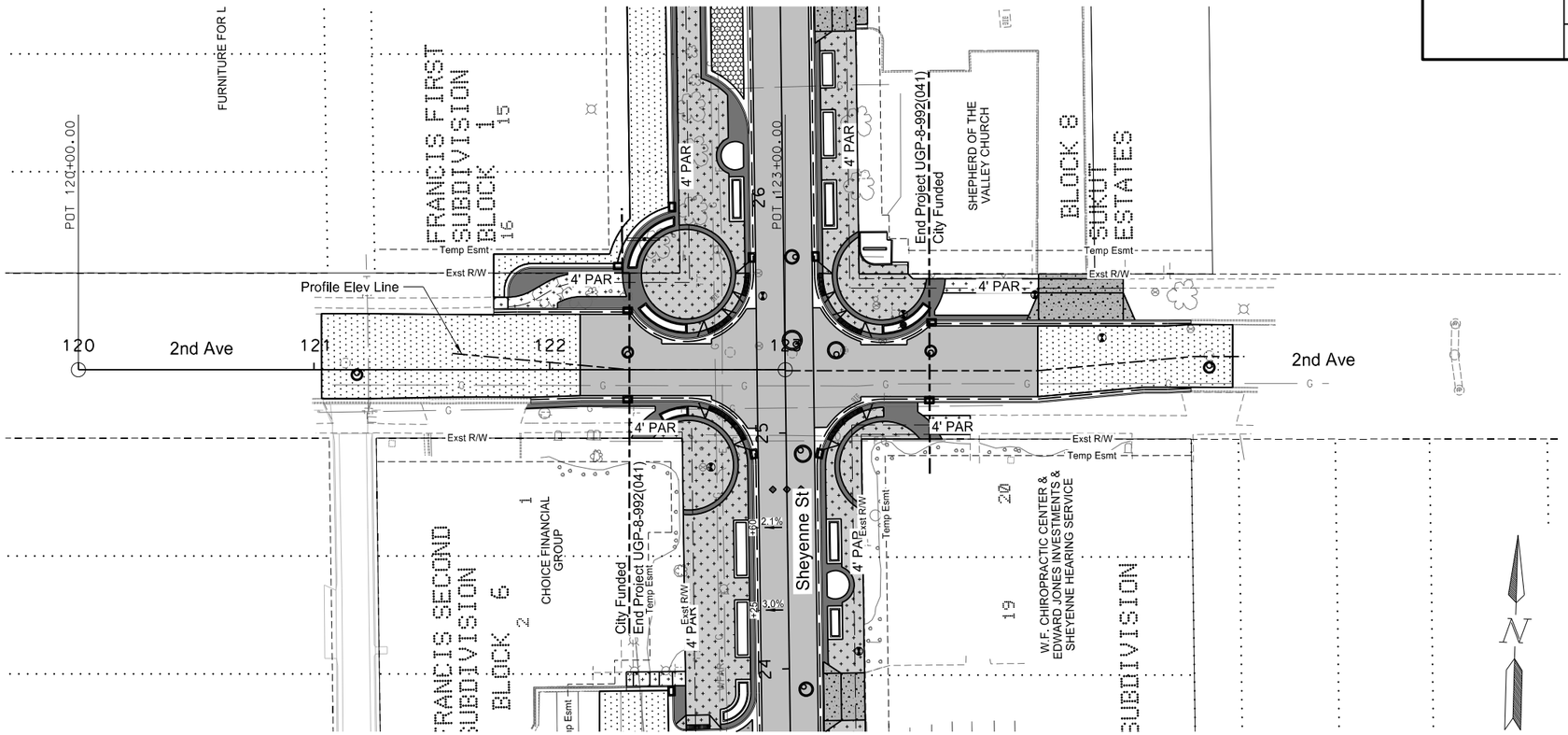
3rd Avenue E

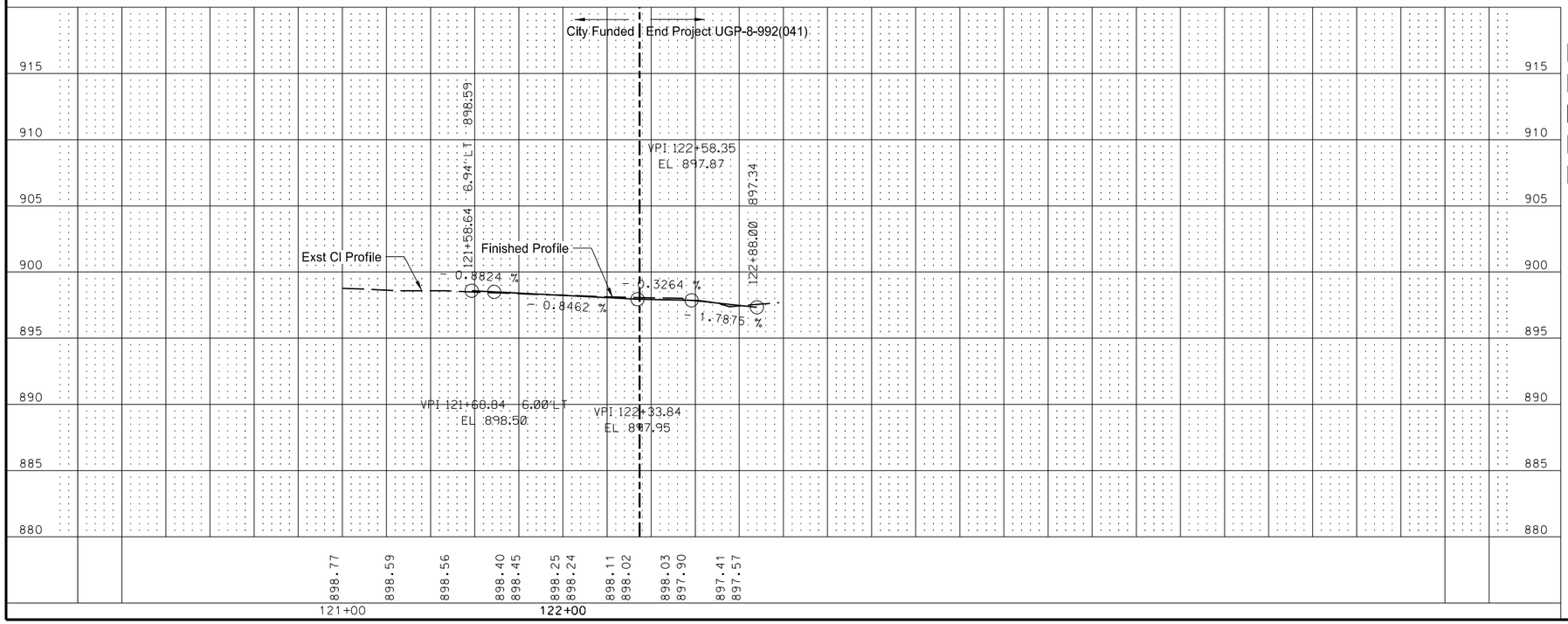
Plan and Profile

Sta 110+00 to Sta 113+00 (PR3RD)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	12

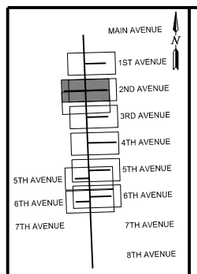
SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 121+03 to 122+34 (City Funded)	550	SY
		Sta 121+76 to 122+31 Lt (City Funded)	51	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 121+76 24.3' Lt to 122+34 24.5' Lt (City Funded)	58	LF
		Sta 121+92 12.6' Rt to 122+34 12.0' Rt (City Funded)	42	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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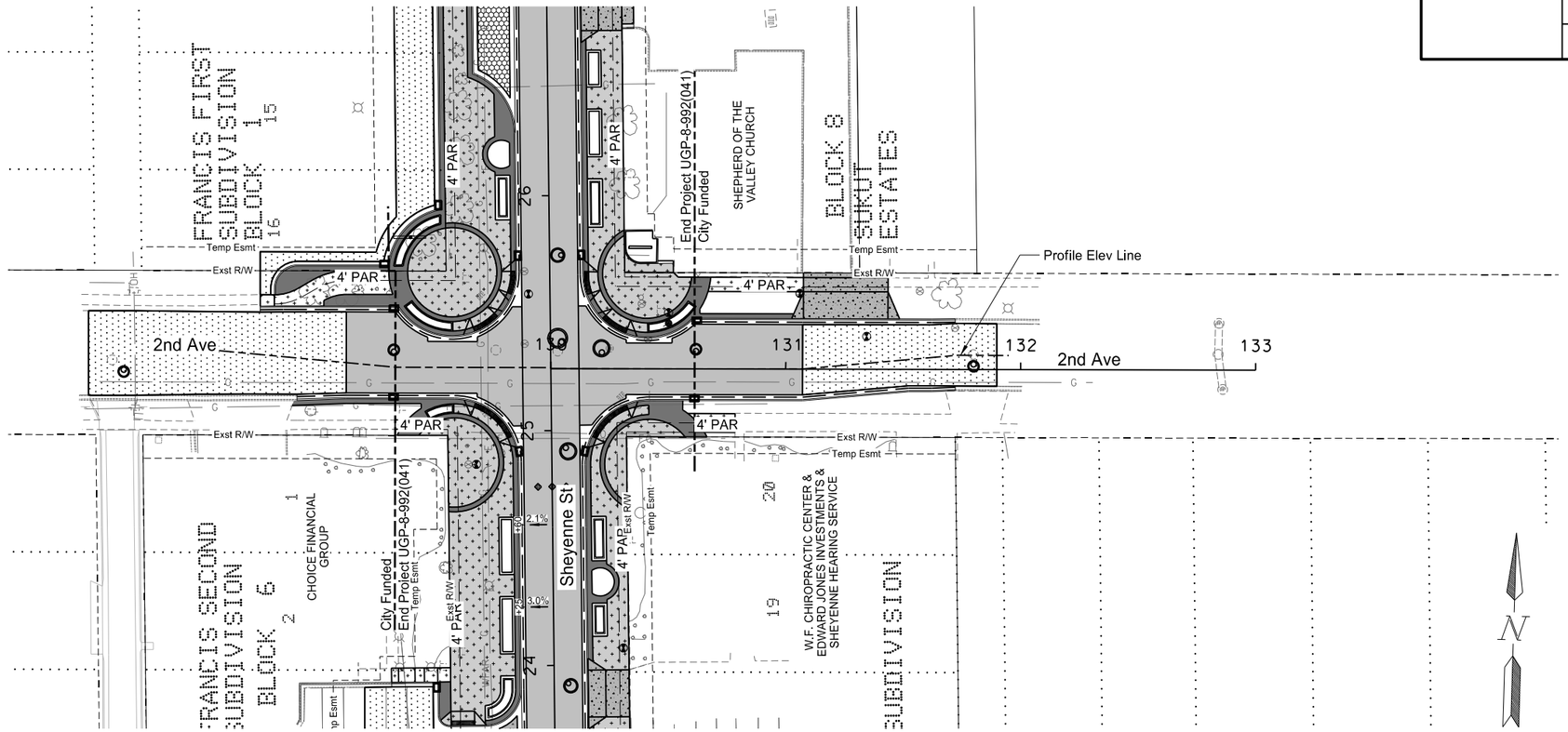
2nd Avenue W

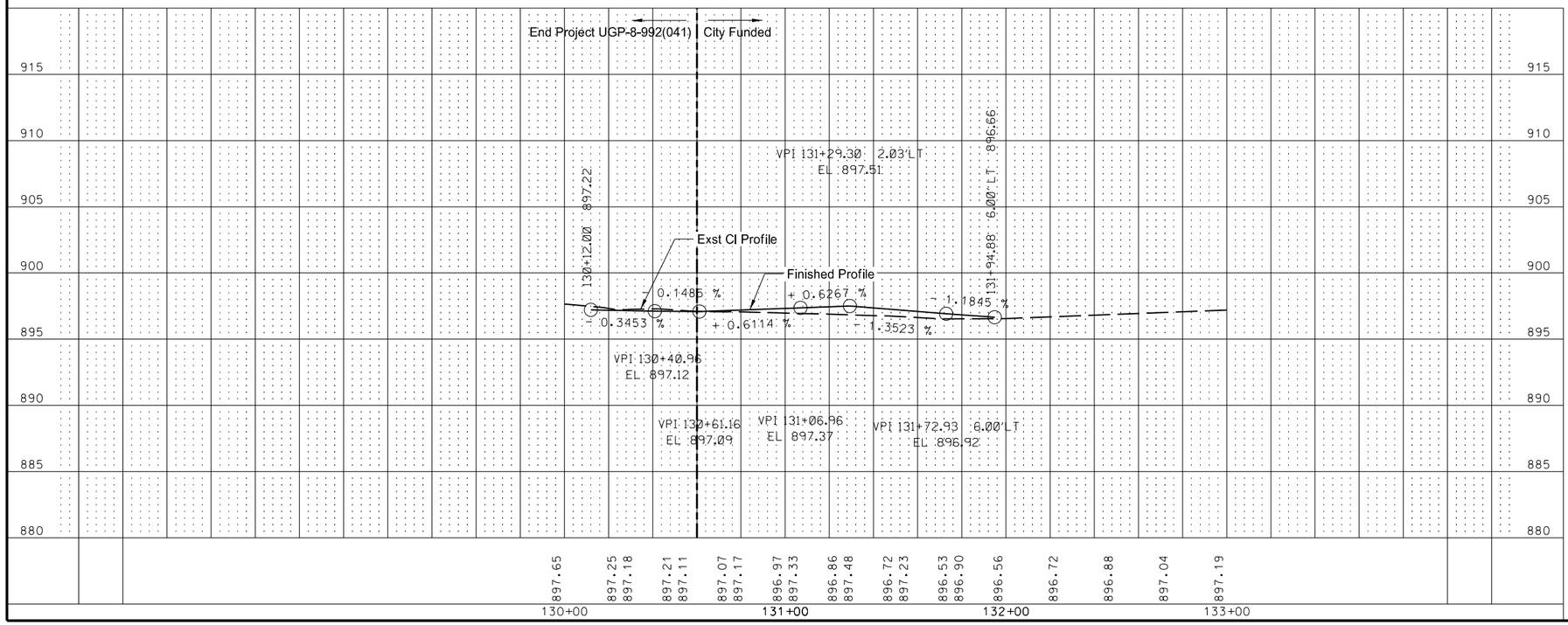
Plan and Profile

Sta 120+00 to Sta 123+00 (PR2ND_W)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	60	13

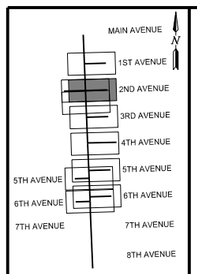
SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 130+61 to 131+90 (City Funded)	489	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 130+61 12.0' Rt to 131+72 7.5' Rt (City Funded)	111	LF
		Sta 130+61 20.' Lt to 131+72 20.0' Lt (City Funded)	111	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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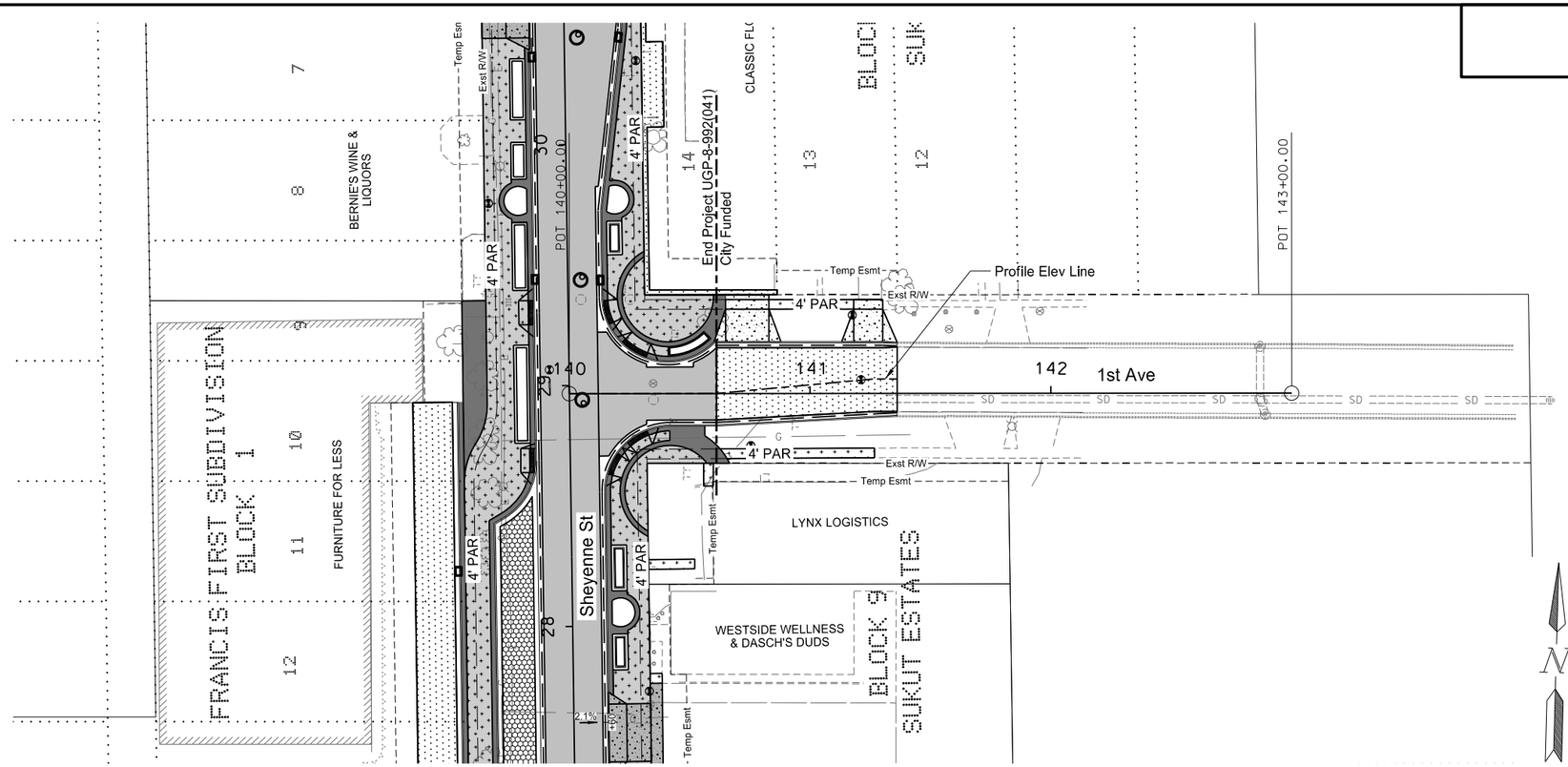
2nd Avenue E

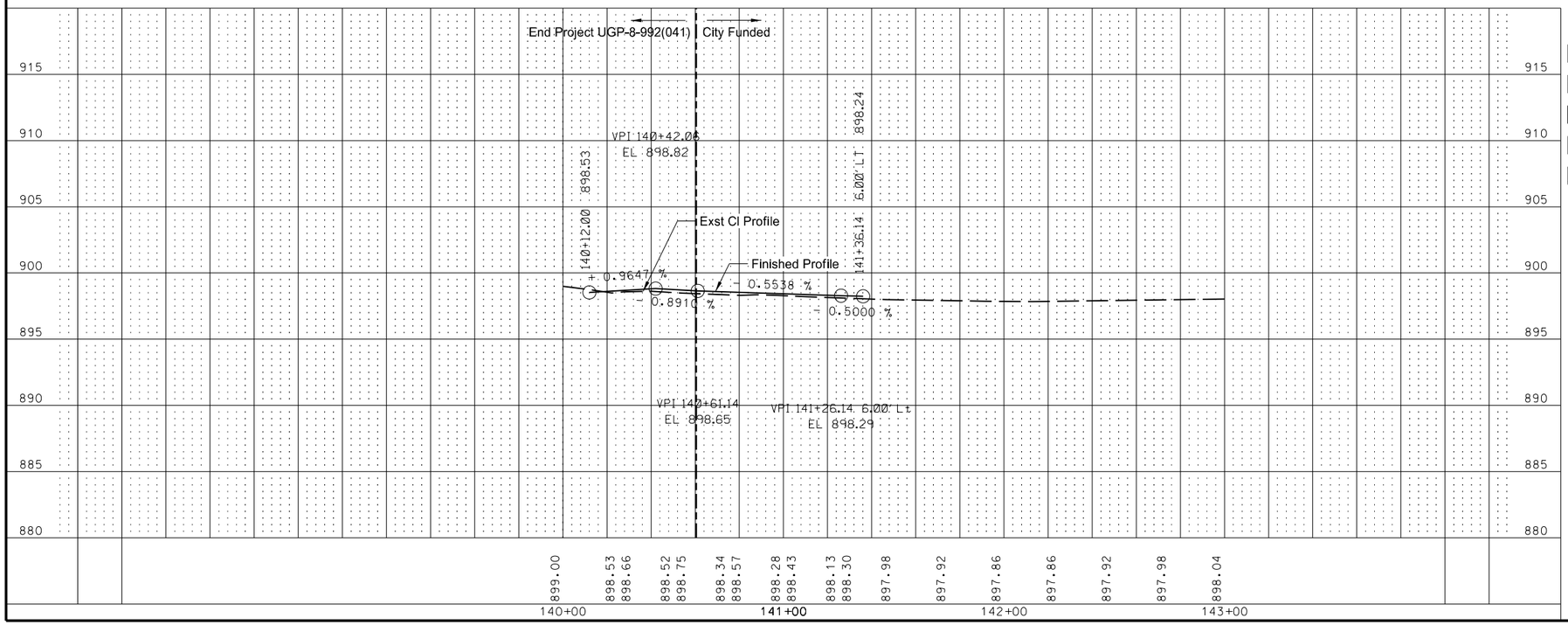
Plan and Profile

Sta 130+00 to Sta 132+00 (PR2ND_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	60	14

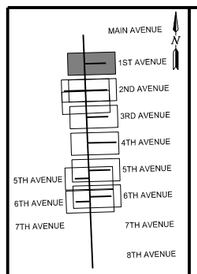
SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 140+61 to 141+36 (City Funded)	292	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 140+61 12.0' Rt to 141+36 8.0' Rt (City Funded)	75	LF
		Sta 140+61 20.1' Lt to 141+36 19.7' Lt (City Funded)	75	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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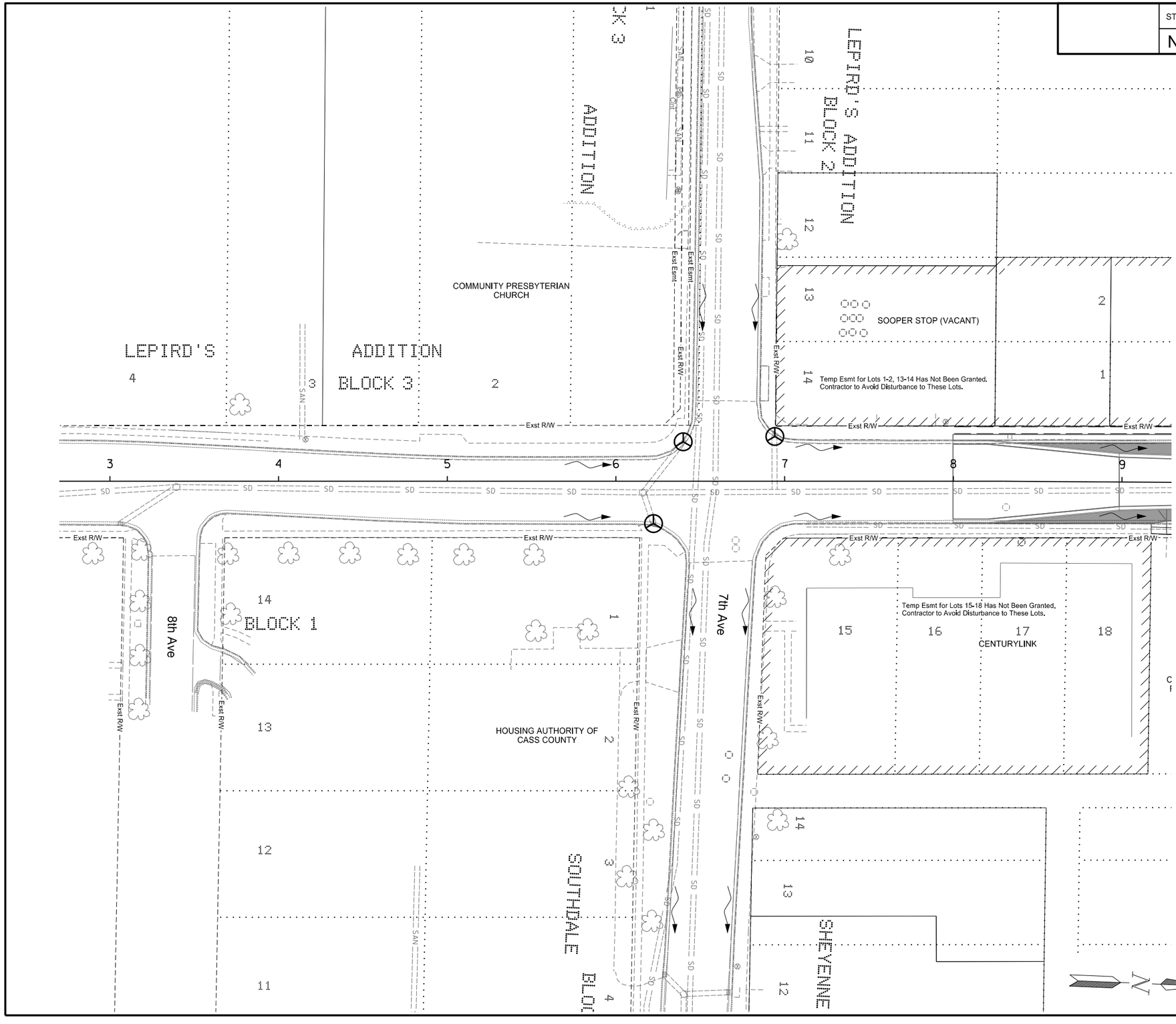
1st Avenue E

Plan and Profile

Sta 140+00 to Sta 142+00 (PR1ST)

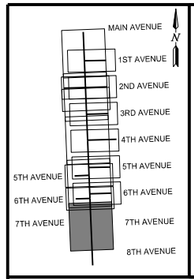
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	76	1

SPEC	CODE	BID ITEM	QTY	UNIT
253	0201	HYDRAULIC MULCH		
		Sta 8+00 to 9+00 Lt	0.01	ACRE
		Sta 8+00 to 9+00 Rt	0.01	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		Sta 6+22 25.1' Rt	1	EA
		Sta 6+40 23.4' Lt	1	EA
		Sta 6+94 26.6' Lt	1	EA



LEGEND

- HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- FLOW DIRECTION
- GRADING TIE LINE



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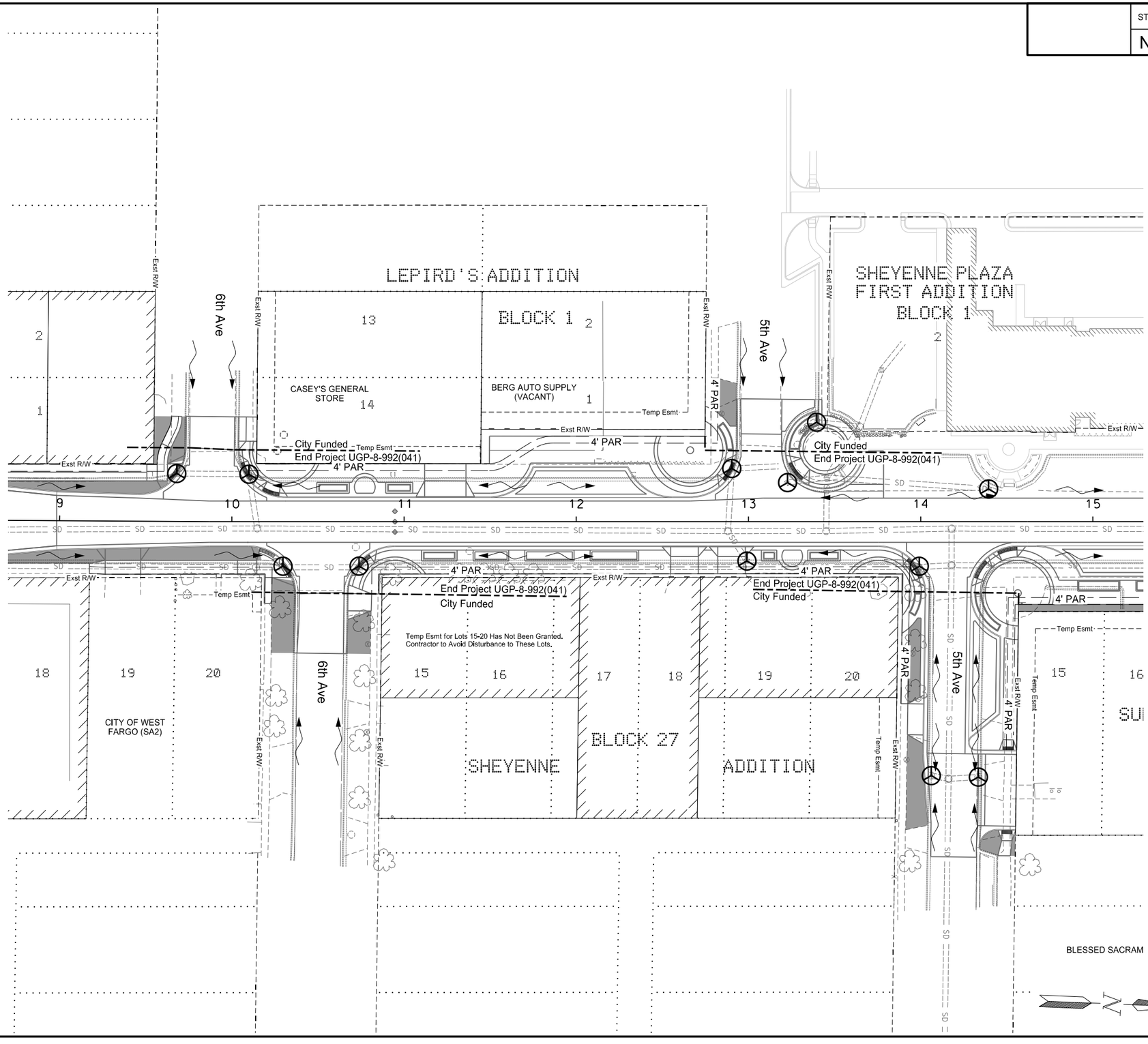
Sheyenne Street

Temporary Erosion Control

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

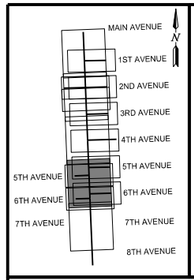
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	76	2

SPEC	CODE	BID ITEM	QTY	UNIT
253	0201	HYDRAULIC MULCH		
		Sta 9+00 to 15+00 Lt (City Funded)	0.01	ACRE
		Sta 9+00 to 15+00 Rt (City Funded)	0.02	ACRE
		Sta 9+00 to 15+00 Lt	0.01	ACRE
		Sta 9+00 to 15+00 Rt	0.04	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		Sta 9+67 27.8' Lt	1	EA
		Sta 10+10 27.6' Lt	1	EA
		Sta 10+30 25.9' Rt	1	EA
		Sta 10+74 25.8' Rt	1	EA
		Sta 12+90 30.9' Lt	1	EA
		Sta 12+99 22.9' Rt	1	EA
		Sta 13+23 22.7' Lt	1	EA
		Sta 13+40 57.8' Lt	1	EA
		Sta 13+99 25.9' Rt	1	EA
		Sta 14+06 147.5' Rt	1	EA
		Sta 14+33 148.3' Rt	1	EA
		Sta 14+39 19.0' Lt	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 9+67 27.8' Lt	1	EA
		Sta 10+10 27.6' Lt	1	EA
		Sta 10+30 25.9' Rt	1	EA
		Sta 10+74 25.8' Rt	1	EA
		Sta 12+90 30.9' Lt	1	EA
		Sta 12+99 22.9' Rt	1	EA
		Sta 13+23 22.7' Lt	1	EA
		Sta 13+40 57.8' Lt	1	EA
		Sta 13+99 25.9' Rt	1	EA
		Sta 14+06 147.5' Rt	1	EA
		Sta 14+33 148.3' Rt	1	EA



LEGEND

- HYDRAULIC MULCH
- FLOW DIRECTION
- INLET PROTECTION - SPECIAL
- GRADING TIE LINE



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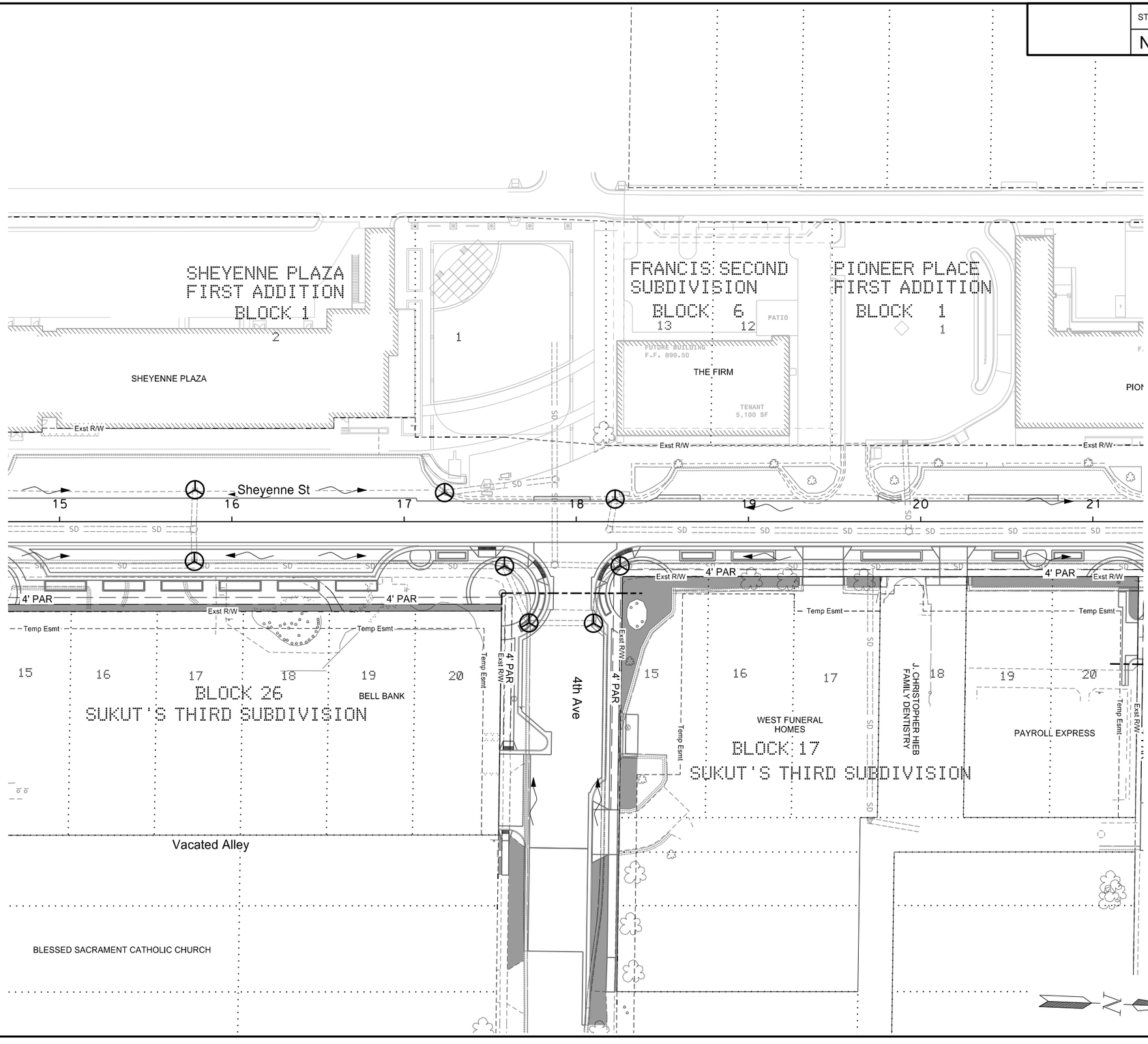
Sheyenne Street

Temporary Erosion Control

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

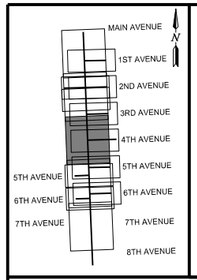
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	76	3

SPEC	CODE	BID ITEM	QTY	UNIT
253	0201	HYDRAULIC MULCH		
		Sta 15+00 to 21+00 Rt	0.09	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		Sta 15+78 23.1' Rt	1	EA
		Sta 15+78 18.5' Lt	1	EA
		Sta 17+23 16.8' Lt	1	EA
		Sta 17+58 25.8' Rt	1	EA
		Sta 17+72 58.7' Rt	1	EA
		Sta 18+10 59.0' Rt	1	EA
		Sta 18+22 13.0' Lt	1	EA
		Sta 18+25 25.7' Rt	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 15+78 23.1' Rt	1	EA
		Sta 17+58 25.8' Rt	1	EA
		Sta 17+72 58.7' Rt	1	EA
		Sta 18+10 59.0' Rt	1	EA
		Sta 18+25 25.7' Rt	1	EA



LEGEND

- HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- FLOW DIRECTION
- GRADING TIE LINE



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Sheyenne Street

Temporary Erosion Control

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	76	4

SPEC	CODE	BID ITEM	QTY	UNIT
253	0201	HYDRAULIC MULCH		
		Sta 21+00 to 27+00 Lt (City Funded)	0.01	ACRE
		Sta 21+00 to 27+00 Rt (City Funded)	0.07	ACRE
		Sta 21+00 to 27+00 Lt	0.02	ACRE
		Sta 21+00 to 27+00 Rt	0.04	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		Sta 21+39 25.7' Rt	1	EA
		Sta 21+45 195.9' Rt	1	EA
		Sta 21+48 13.2' Lt	1	EA
		Sta 21+73 195.9' Rt	1	EA
		Sta 21+84 25.8' Rt	1	EA
		Sta 23+53 24.7' Lt	1	EA
		Sta 25+08 28.4' Lt	1	EA
		Sta 25+14 29.7' Rt	1	EA
		Sta 25+14 285.9' Rt	1	EA
		Sta 25+35 25.2' Rt	1	EA
		Sta 25+42 284.7' Rt	1	EA
		Sta 25+50 29.4' Rt	1	EA
		Sta 25+58 29.6' Rt	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 21+39 25.7' Rt	1	EA
		Sta 21+45 195.9' Rt	1	EA
		Sta 21+73 195.9' Rt	1	EA
		Sta 21+84 25.8' Rt	1	EA
		Sta 23+53 24.7' Lt	1	EA
		Sta 25+08 28.4' Lt	1	EA
		Sta 25+14 29.7' Rt	1	EA
		Sta 25+35 25.2' Rt	1	EA
		Sta 25+50 29.4' Rt	1	EA
		Sta 25+58 29.6' Rt	1	EA

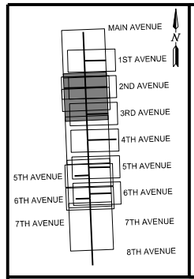
LEGEND

HYDRAULIC MULCH

INLET PROTECTION - SPECIAL

FLOW DIRECTION

GRADING TIE LINE



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Sheyenne Street

Temporary Erosion Control

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	76	5

SPEC	CODE	BID ITEM	QTY	UNIT
253	0201	HYDRAULIC MULCH		
		Sta 27+00 to 33+00 Rt (City Funded)	0.05	ACRE
		Sta 27+00 to 33+00 Lt	0.03	ACRE
		Sta 27+00 to 33+00 Rt	0.03	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		Sta 27+28 25.2' Lt	1	EA
		Sta 27+28 23.0' Rt	1	EA
		Sta 28+84 288.9' Rt	1	EA
		Sta 29+12 287.1' Rt	1	EA
		Sta 29+35 24.7' Lt	1	EA
		Sta 29+40 22.9' Rt	1	EA
		Sta 32+08 24.9' Lt	1	EA
		Sta 32+08 22.8' Rt	1	EA
		Sta 32+56 38.8' Lt	1	EA
		Sta 32+56 38.5' Rt	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 27+28 23.0' Lt	1	EA
		Sta 27+28 24.0' Rt	1	EA
		Sta 29+35 23.7' Lt	1	EA
		Sta 29+40 23.9' Rt	1	EA

FOR LESS

FRANCIS FIRST SUBDIVISION
BLOCK 1

14 13 12 11 10 9 8 7

FURNITURE FOR LESS

BERNIE'S WINE & LIQUORS

FRANCIS FIRST SUBDIVISION
BLOCK 1

4 5 6

SANDY'S DONUTS

Temp Esmt
Exst R/W
4' PAR
SD
27 28 Sheyenne St 29 30 31 32

WESTSIDE WELLNESS & DASCH'S DUDS
LYNX LOGISTICS
BLOCK 9
SUKUT ESTATES

End Project UGP-8-992(041)
City Funded

CLASSIC FLORAL
14 13 12

BLOCK 1
SUKUT ESTATES

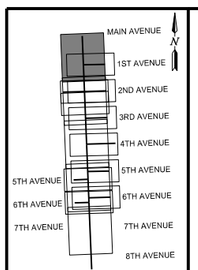
1 CENEX
2
3

1st Ave

U.S. Hwy No. 10 & 52 - Main Ave W

LEGEND

- HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- FLOW DIRECTION
- GRADING TIE LINE



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Sheyenne Street

Temporary Erosion Control

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

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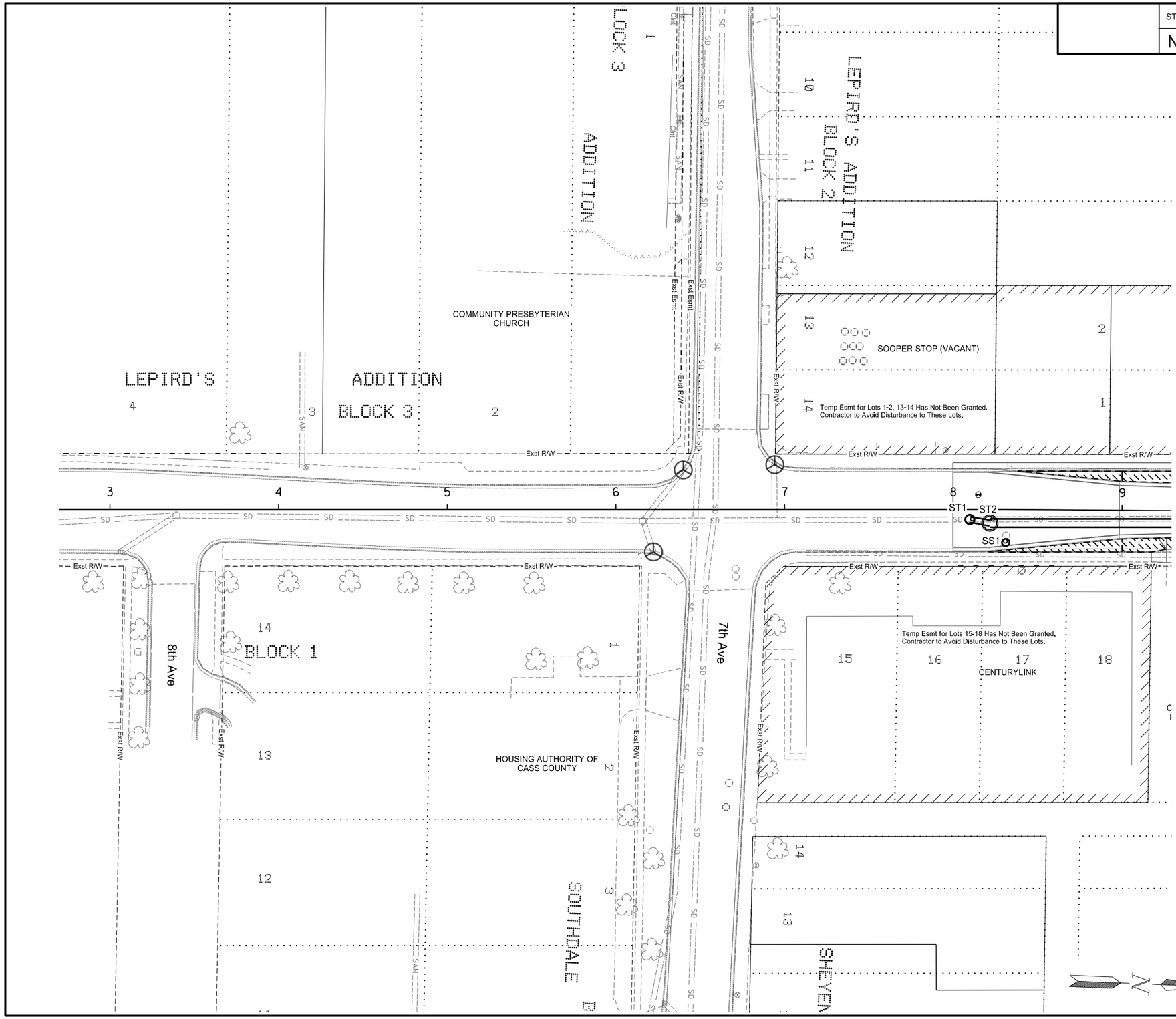
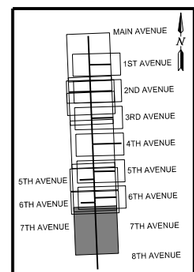
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	77	1

SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III		
		Sta 8+00 to Sta 9+00 Lt	0.01	ACRE
		Sta 8+00 to Sta 9+00 Rt	0.01	ACRE
253	0201	HYDRAULIC MULCH		
		Sta 8+00 to Sta 9+00 Lt	0.01	ACRE
		Sta 8+00 to Sta 9+00 Rt	0.01	ACRE
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 6+22 25.1' Rt	1	EA
		Sta 6+40 23.4' Lt	1	EA
		Sta 6+94 26.6' Lt	1	EA



LEGEND

- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- INLET PROTECTION - SPECIAL INSTALLED IN SECT 76
- FLOW DIRECTION
- GRADING TIE LINE



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Sheyenne Street

Permanent Erosion Control

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

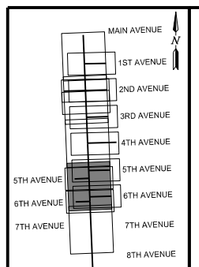
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	77	2

SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III		
		Sta 9+00 to Sta 15+00 Lt (City Funded)	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt (City Funded)	0.02	ACRE
		Sta 9+00 to Sta 15+00 Lt	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt	0.04	ACRE
253	0201	HYDRAULIC MULCH		
		Sta 9+00 to Sta 15+00 Lt (City Funded)	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt (City Funded)	0.02	ACRE
		Sta 9+00 to Sta 15+00 Lt	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt	0.04	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		ST27A, ST27B, ST27C, ST27D	5	EA
		ST3A, ST3B, ST3C	3	EA
		ST3-1A, ST3-1B	2	EA
		ST4A, ST4B, ST4C	4	EA
		ST5A	1	EA
		ST28A, ST28B	2	EA
		ST29A	1	EA
		ST30A	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		ST27A, ST27B, ST27C, ST27D	5	EA
		ST3A, ST3B, ST3C	3	EA
		ST3-1A, ST3-1B	2	EA
		ST4A, ST4B, ST4C	4	EA
		ST5A	1	EA
		ST28A, ST28B	2	EA
		ST29A	1	EA
		ST30A	1	EA
		Sta 14+39 19.0' Lt	1	EA

LEPIRD'S ADDITION
BLOCK 1
SHEYENNE PLAZA
FIRST ADDITION
BLOCK 1
SHEYENNE
ADDITION
BLOCK 27
6th Ave
5th Ave
CASEY'S GENERAL STORE
BERG AUTO SUPPLY (VACANT)
CITY OF WEST FARGO (SA2)
BLESSED SACRAM
Exst R/W
Temp Esmt
City Funded
End Project UGP-8-992(041)
Temp Esmt for Lots 15-20 Has Not Been Granted. Contractor to Avoid Disturbance to These Lots.
ST27C
ST27B
ST27D
ST27
ST27A
ST3
ST3A
ST3-1A
ST3-1
ST3-1B
SS2
SS3
SS4
ST3C
ST4A
ST4C
ST4
ST4B
ST5
ST5A
ST6
ST28A
ST28
ST28B
ST29
ST29A
ST30
ST30A
SD

LEGEND

- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- INLET PROTECTION - SPECIAL INSTALLED IN SECT 76
- FLOW DIRECTION
- GRADING TIE LINE



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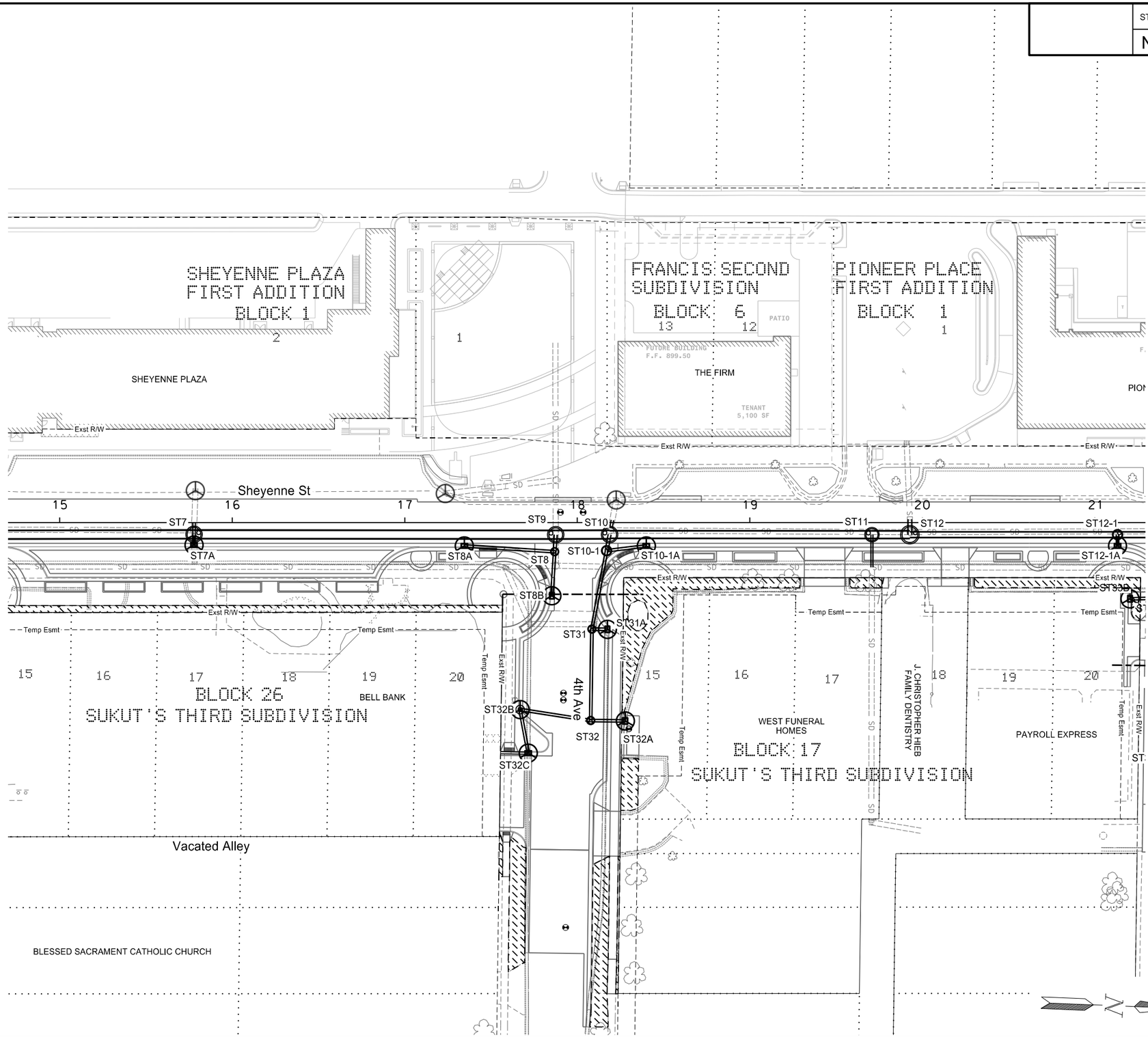
Sheyenne Street

Permanent Erosion Control

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

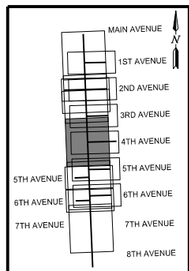
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	77	3

SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III		
		Sta 15+00 to Sta 21+00 Rt	0.09	ACRE
253	0201	HYDRAULIC MULCH		
		Sta 15+00 to Sta 21+00 Rt	0.09	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		ST7A	1	EA
		ST8A, ST8B	2	EA
		ST31A	1	EA
		ST32A, ST32B, ST32C	3	EA
		ST10-1A	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		ST7A	1	EA
		Sta 15+78 18.5' Lt	1	EA
		ST8A, ST8B	2	EA
		Sta 17+23 16.8' Lt	1	EA
		ST31A	1	EA
		ST32A, ST32B, ST32C	3	EA
		Sta 18+22 13.0' Lt	1	EA
		ST10-1A	1	EA



LEGEND

- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- INLET PROTECTION - SPECIAL INSTALLED IN SECT 76
- FLOW DIRECTION
- GRADING TIE LINE



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Sheyenne Street

Permanent Erosion Control

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

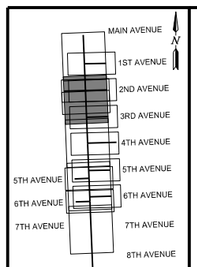
8/15/2020 4:33:14 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\077PE_003.dgn

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	77	4

SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III		
		Sta 21+00 to Sta 27+00 Lt (City Funded	0.01	ACRE
		Sta 21+00 to Sta 27+00 Rt (City Funded	0.07	ACRE
		Sta 21+00 to Sta 27+00 Lt	0.02	ACRE
		Sta 21+00 to Sta 27+00 Rt	0.04	ACRE
253	0201	HYDRAULIC MULCH		
		Sta 21+00 to Sta 27+00 Lt (City Funded	0.01	ACRE
		Sta 21+00 to Sta 27+00 Rt (City Funded	0.07	ACRE
		Sta 21+00 to Sta 27+00 Lt	0.02	ACRE
		Sta 21+00 to Sta 27+00 Rt	0.04	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		ST12-1A	1	EA
		ST33A, ST33B, ST33C	3	EA
		ST34A	1	EA
		ST35A, ST35B, ST35C	3	EA
		ST14A	1	EA
		ST14-1A	1	EA
		ST15A	1	EA
		ST16A, ST16B	2	EA
		ST18A, ST18B	2	EA
		ST20A, ST20B, ST20C	3	EA
		ST21A, ST21B, ST21C	3	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		ST12-1A	1	EA
		ST33A, ST33B, ST33C	3	EA
		ST34A	1	EA
		ST35A, ST35B, ST35C	3	EA
		ST14A	1	EA
		ST14-1A	1	EA
		Sta 21+48 13.2' Lt	1	EA
		ST15A	1	EA
		ST16A, ST16B	2	EA
		ST18A, ST18B	2	EA
		ST20A, ST20B, ST20C	3	EA
		Sta 25+14 285.9' Rt	1	EA
		Sta 25+42 284.7' Rt	1	EA
		ST21A, ST21B, ST21C	3	EA

LEGEND

- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- INLET PROTECTION - SPECIAL INSTALLED IN SECT 76
- FLOW DIRECTION
- GRADING TIE LINE



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Sheyenne Street

Permanent Erosion Control

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	77	5

SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III		
		Sta 27+00 to Sta 33+00 Rt (City Funded	0.05	ACRE
		Sta 27+00 to Sta 33+00 Lt	0.04	ACRE
		Sta 27+00 to Sta 33+00 Rt	0.03	ACRE
253	0201	HYDRAULIC MULCH		
		Sta 27+00 to Sta 33+00 Rt (City Funded	0.05	ACRE
		Sta 27+00 to Sta 33+00 Lt	0.04	ACRE
		Sta 27+00 to Sta 33+00 Rt	0.03	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		ST23A, ST23B	4	EA
		ST24A	1	EA
		ST26A, ST26B	3	EA
		ST26-1A, ST26-1B	2	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		ST23A, ST23B	4	EA
		ST24A	1	EA
		Sta 28+84 288.9' Rt	1	EA
		Sta 29+12 287.1' Rt	1	EA
		ST26A, ST26B	3	EA
		ST26-1A, ST26-1B	2	EA
		Sta 32+08 24.9' Lt	1	EA
		Sta 32+08 22.8' Rt	1	EA
		Sta 32+56 38.8' Lt	1	EA
		Sta 32+56 38.5' Rt	1	EA

FOR LESS

FRANCIS FIRST SUBDIVISION
BLOCK 1

14 13 12 11 10 9 8 7

FURNITURE FOR LESS

BERNIE'S WINE & LIQUORS

FRANCIS FIRST SUBDIVISION
BLOCK 1

4 5 6

SANDY'S DONUTS

Temp Esmt
Exst R/W
SD

ST24A
ST23A
ST26A
ST26
ST26-1A
ST22
ST24
ST25
ST23B
ST26B
ST26-1
ST26-1B

27 28 29 30 31 32

Sheyenne St

End Project UGP-8-992(041)
City Funded

WESTSIDE WELLNESS & DASCH'S DUDS

LYNX LOGISTICS

1st Ave

BLOCK 9
SUKUT ESTATES

CLASSIC FLORAL

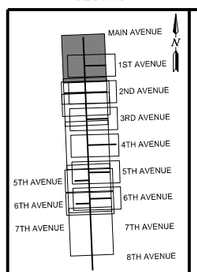
BLOCK 1
SUKUT ESTATES

CENEX

U.S. Hwy No. 10 & 52 - Main Ave W

LEGEND

- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- INLET PROTECTION - SPECIAL
- INLET PROTECTION - SPECIAL INSTALLED IN SECT 76
- FLOW DIRECTION
- GRADING TIE LINE



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Sheyenne Street

Permanent Erosion Control

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

PRELIMINARY SURVEY COORDINATE AND CURVE DATA -

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	81	1

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING

CURVE DATA

ARC DEFINITION	

US PUBLIC LAND SURVEY DATA

DESC.	SEC-TWP-RGE	NORTHING	EASTING
NE Cor	Sec 7 T-139-N R-49-W	461972.41	2867812.02
E 1/4 Cor	Sec 7 T-139-N R-49-W	459353.74	2867919.86
SE Cor	Sec 7 T-139-N R-49-W	456734.96	2868027.76
N 1/4 Cor	Sec 7 T-139-N R-49-W	461905.82	2865170.07
S 1/4 Cor	Sec 7 T-139-N R-49-W	456633.09	2865380.29
N 1/4 Cor	Sec 8 T-139-N R-49-W	462045.61	2870450.26

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION
						Primary Control
GPS 1	457991.28	2873425.16	902.10			
GPS 2	467142.88	2867547.80	899.86			
						Secondary Control
RTK100	461934.28	2867784.40	902.33			
RTK101	461566.78	2867864.08	899.10			
RTK102	461194.47	2867802.51	898.49			
RTK103	460804.48	2867896.39	896.98			
RTK104	460450.68	2867914.92	898.83			
RTK105	460044.23	2867866.97	898.06			
RTK106	459665.22	2867868.36	897.64			

NOTES:

Date Survey Completed / /

☐ Assumed Coordinates

☒ All coordinates on this sheet are Cass County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota South Zone Combination Factor (cf) = 0.9998875

All coordinates and measurements on this document derived from the International Foot definition.

INITIALIZING BENCH MARK

☒ NAVD-88
☐ NGVD-29

☐ GEOID 09 ☐ _____
☒ GEOID 12A

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	81	2



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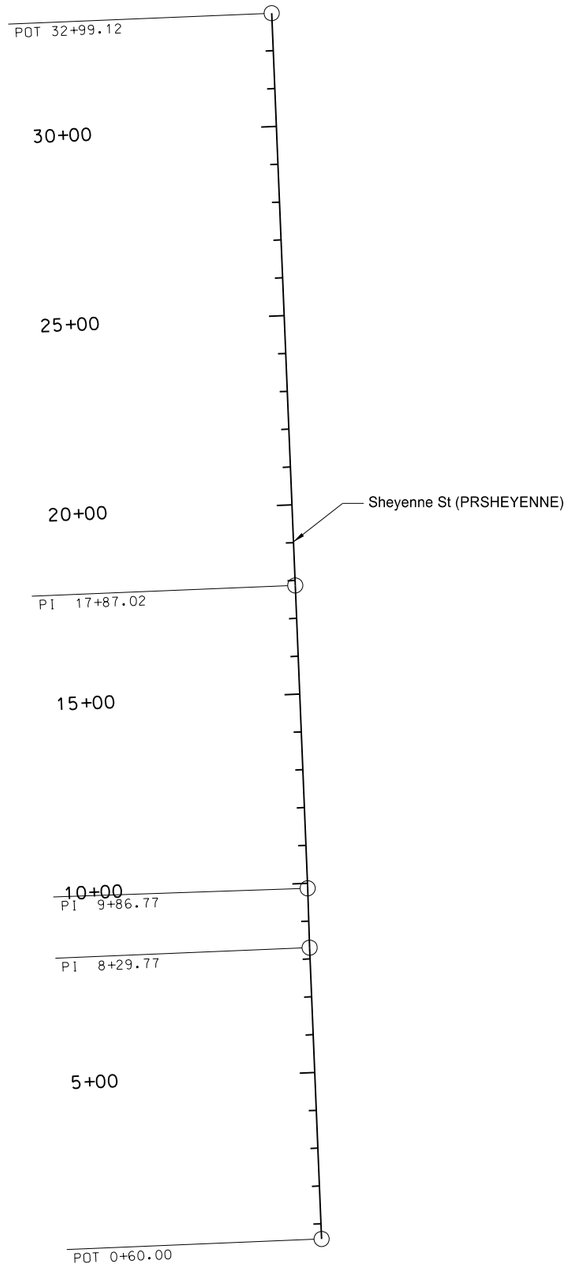
Sheyenne Street

Survey Coordinate and Curve Data

Alignment Overview

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	81	3



Chain PRSHEYENNE contains:

PRSHEYENNE1 PRSHEYENNE3 PRSHEYENNE5 PRSHEYENNE7 PRSHEYENNE8

Beginning chain PRSHEYENNE description

Feature: Alignment 1 S

==========

Point PRSHEYENNE1 N 458,765.4058 E 2,867,943.9668 Sta 0+60.00

Course from PRSHEYENNE1 to PRSHEYENNE3 N 2° 21' 01.71" W Dist 769.7700

Point PRSHEYENNE3 N 459,534.5281 E 2,867,912.3969 Sta 8+29.77

Course from PRSHEYENNE3 to PRSHEYENNE5 N 1° 59' 07.94" W Dist 157.0032

Point PRSHEYENNE5 N 459,691.4371 E 2,867,906.9572 Sta 9+86.77

Course from PRSHEYENNE5 to PRSHEYENNE7 N 2° 21' 01.71" W Dist 800.2437

Point PRSHEYENNE7 N 460,491.0075 E 2,867,874.1376 Sta 17+87.02

Course from PRSHEYENNE7 to PRSHEYENNE8 N 2° 21' 28.63" W Dist 1,512.1068

Point PRSHEYENNE8 N 462,001.8340 E 2,867,811.9258 Sta 32+99.12

==========

Ending chain PRSHEYENNE description



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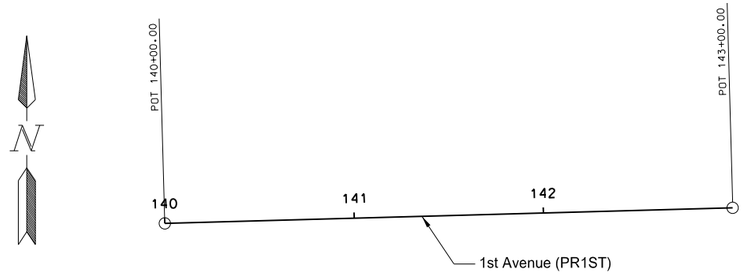
Sheyenne Street

Survey Coordinate and Curve Data

PRSHEYENNE

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	81	4



Chain PR1ST contains:
47 48

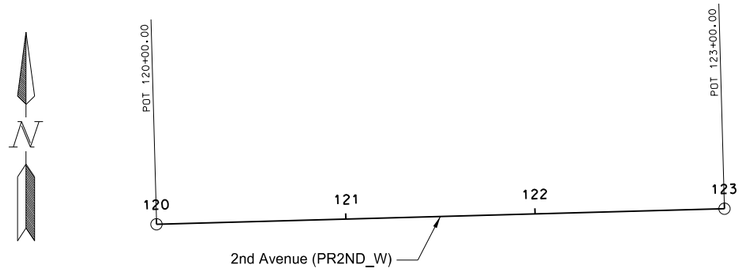
Beginning chain PR1ST description
Feature: Alignment 2 S
==========

Point 47 N 461,599.7102 E 2,867,828.4842 Sta 140+00.00

Course from 47 to 48 N 88° 25' 52.90" E Dist 300.0000

Point 48 N 461,607.9225 E 2,868,128.3718 Sta 143+00.00

==========
Ending chain PR1ST description



Chain PR2ND_W contains:
51 52

Beginning chain PR2ND_W description
Feature: Alignment 2 S
==========

Point 51 N 461,221.9318 E 2,867,543.8137 Sta 120+00.00

Course from 51 to 52 N 88° 25' 21.33" E Dist 300.0000

Point 52 N 461,230.1900 E 2,867,843.7000 Sta 123+00.00

==========
Ending chain PR2ND_W description



Chain PR2ND_E contains:
49 50

Beginning chain PR2ND_E description
Feature: Alignment 2 S
==========

Point 49 N 461,229.7871 E 2,867,843.7166 Sta 130+00.00

Course from 49 to 50 N 88° 24' 43.67" E Dist 300.0000

Point 50 N 461,238.1001 E 2,868,143.6014 Sta 133+00.00

==========
Ending chain PR2ND_E description

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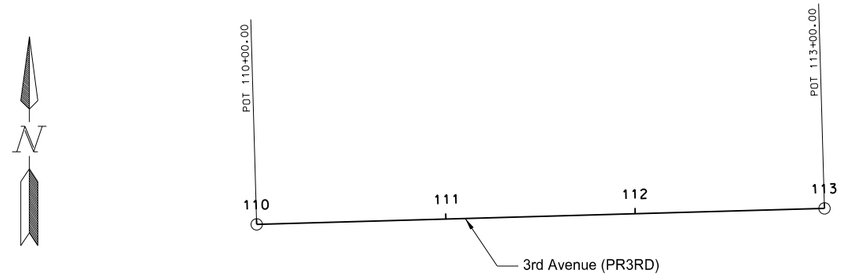
Sheyenne Street

Survey Coordinate and Curve Data

PR1ST, PR2ND_W & PR2ND_E

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	81	5



Chain PR3RD contains:
41 42

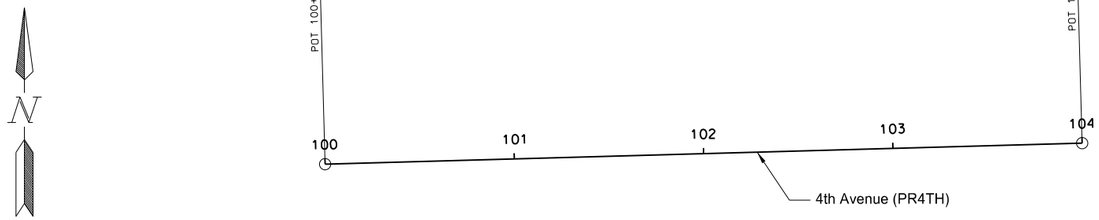
Beginning chain PR3RD description
Feature: Alignment 2 S
==========

Point 41 N 460,859.6272 E 2,867,858.9588 Sta 110+00.00

Course from 41 to 42 N 88° 23' 23.33" E Dist 300.0000

Point 42 N 460,868.0570 E 2,868,158.8404 Sta 113+00.00

==========
Ending chain PR3RD description



Chain PR4TH contains:
53 54

Beginning chain PR4TH description
Feature: Alignment 2 S
==========

Point 53 N 460,502.2889 E 2,867,873.6730 Sta 100+00.00

Course from 53 to 54 N 88° 24' 52.57" E Dist 400.0000

Point 54 N 460,513.3557 E 2,868,273.5199 Sta 104+00.00

==========
Ending chain PR4TH description

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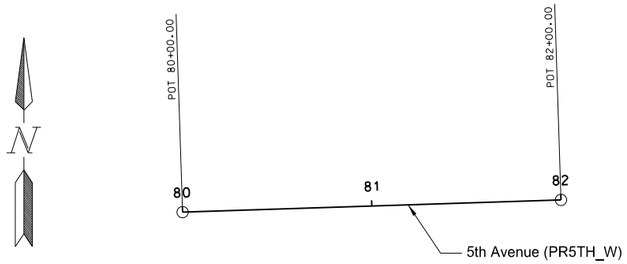
Sheyenne Street

Survey Coordinate and Curve Data

PR3RD & PR4TH

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	81	6



Chain PR5TH_W contains:
45 46

Beginning chain PR5TH_W description
Feature: Alignment 2 S
==========

Point 45 N 460,006.2228 E 2,867,693.8754 Sta 80+00.00

Course from 45 to 46 N 88° 08' 37.09" E Dist 200.0000

Point 46 N 460,012.7016 E 2,867,893.7704 Sta 82+00.00

==========
Ending chain PR5TH_W description



Chain PR5TH_E contains:
43 44

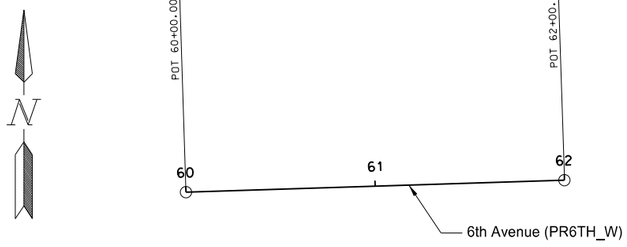
Beginning chain PR5TH_E description
Feature: Alignment 2 S
==========

Point 43 N 460,120.7855 E 2,867,889.3339 Sta 90+00.00

Course from 43 to 44 N 88° 25' 15.24" E Dist 300.0000

Point 44 N 460,129.0526 E 2,868,189.2200 Sta 93+00.00

==========
Ending chain PR5TH_E description



Chain PR6TH_W contains:
57 58

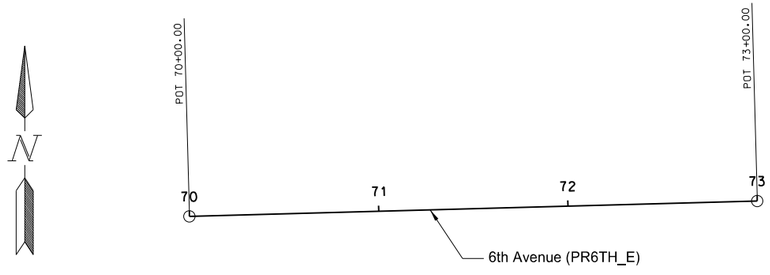
Beginning chain PR6TH_W description
Feature: Alignment 2 S
==========

Point 57 N 459,686.4333 E 2,867,707.0026 Sta 60+00.00

Course from 57 to 58 N 88° 10' 27.55" E Dist 200.0000

Point 58 N 459,692.8051 E 2,867,906.9011 Sta 62+00.00

==========
Ending chain PR6TH_W description



Chain PR6TH_E contains:
55 56

Beginning chain PR6TH_E description
Feature: Alignment 2 S
==========

Point 55 N 459,757.3545 E 2,867,904.2515 Sta 70+00.00

Course from 55 to 56 N 88° 26' 38.81" E Dist 300.0000

Point 56 N 459,765.5001 E 2,868,204.1409 Sta 73+00.00

==========
Ending chain PR6TH_E description

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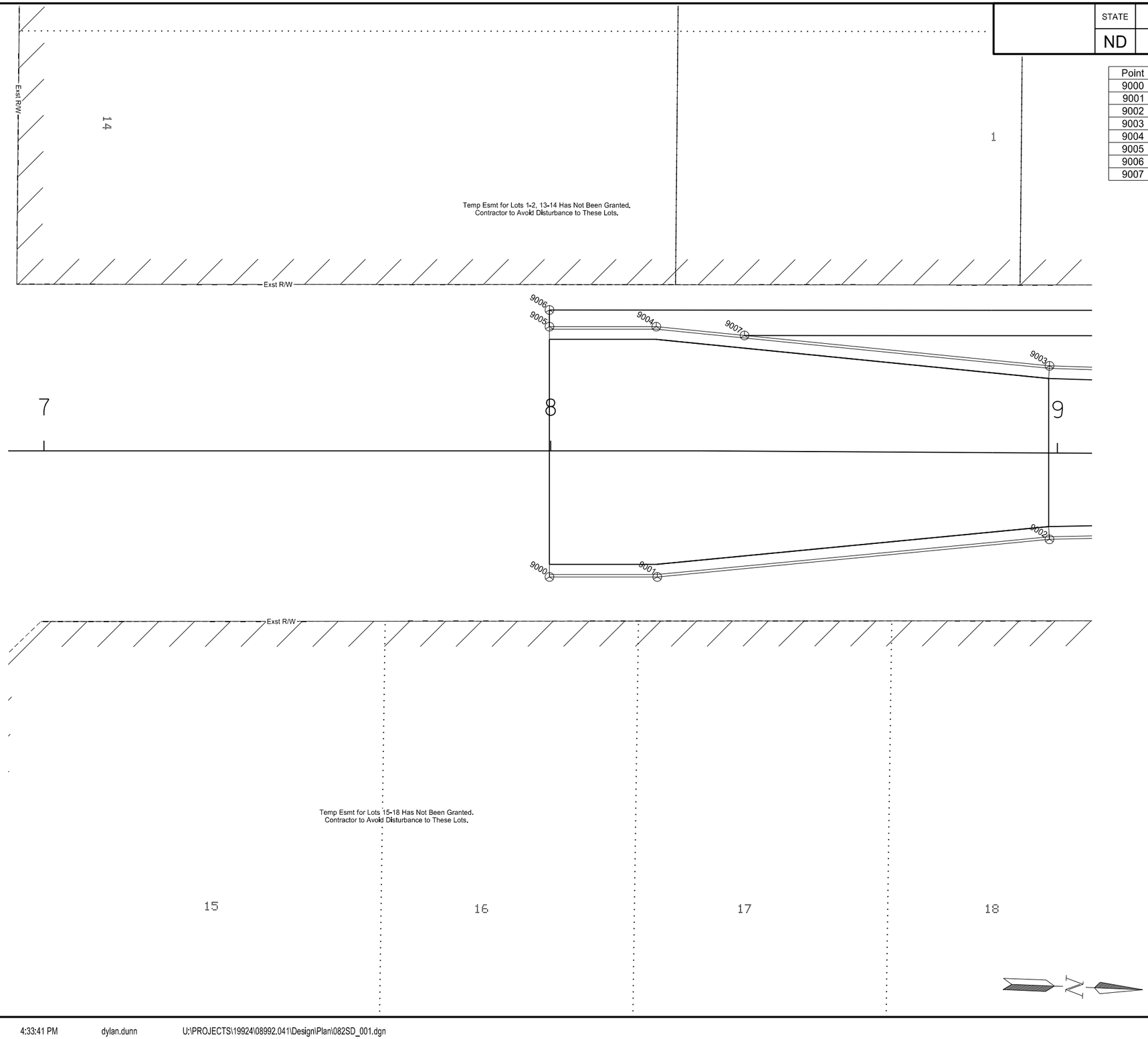
Sheyenne Street

Survey Coordinate and Curve Data

PR5TH_W, PR5TH_E, PR6TH_W & PR6TH_E

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	1

Point	Northing	Easting	Station	Offset	Description
9000	459505.57	2867938.51	7+99.77	24.90	BOC
9001	459526.83	2867937.63	8+21.04	24.90	BOC
9002	459603.85	2867927.04	8+98.55	17.03	BOC
9003	459602.47	2867892.83	8+98.35	-17.20	BOC
9004	459524.62	2867888.29	8+20.86	-24.49	BOC
9005	459503.55	2867889.16	7+99.77	-24.49	BOC
9006	459503.41	2867885.86	7+99.77	-27.79	EOSW
9007	459542.07	2867889.31	8+38.11	-22.81	EOSW



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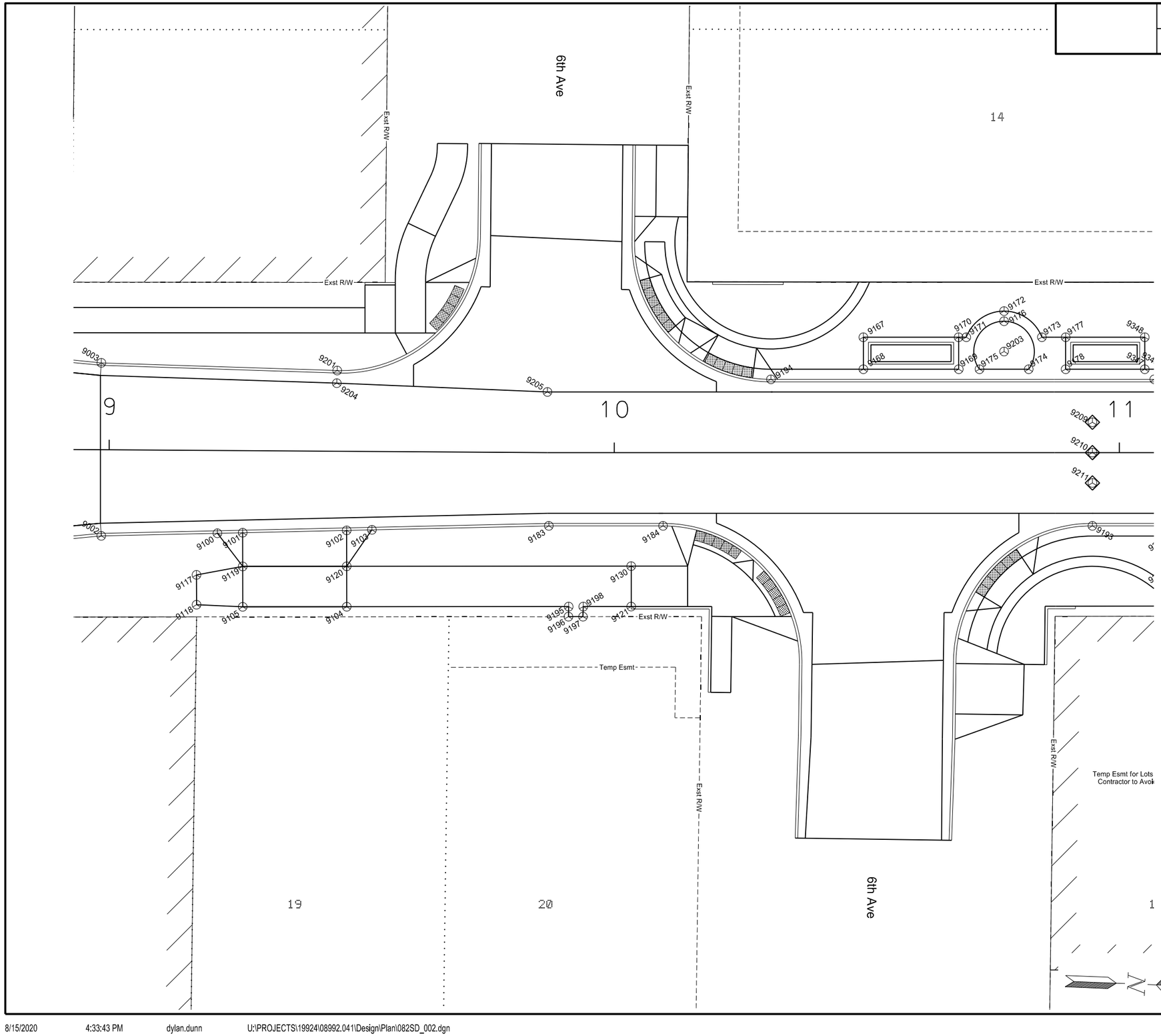
Sheyenne Street

Survey Data Layouts

Sta 7+00 to Sta 9+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	2



Point	Northing	Easting	Station	Offset	Description
9100	459626.81	2867925.58	9+21.54	16.38	DRWY
9101	459631.80	2867925.27	9+26.54	16.23	DRWY
9102	459652.35	2867923.96	9+47.12	15.64	DRWY
9103	459657.34	2867923.65	9+52.12	15.50	DRWY
9104	459652.98	2867939.07	9+47.24	30.76	DRWY
9105	459632.42	2867939.93	9+26.66	30.91	DRWY
9117	459623.01	2867933.98	9+17.45	24.64	EOSW
9118	459623.27	2867939.89	9+17.50	30.55	EOSW
9119	459632.08	2867931.94	9+26.59	22.91	EOSW
9120	459652.65	2867931.08	9+47.17	22.76	EOSW
9121	459709.26	2867936.72	10+03.37	30.47	EOSW
9130	459708.93	2867928.72	10+07.36	22.46	EOSW
9167	459753.00	2867881.58	10+49.33	-22.83	EOSW
9168	459753.26	2867887.91	10+49.33	-16.50	EOSW
9169	459772.12	2867887.13	10+68.20	-16.50	EOSW
9170	459771.85	2867880.81	10+68.19	-22.83	EOSW
9171	459773.36	2867880.74	10+69.70	-22.83	EOSW
9172	459780.62	2867875.27	10+77.19	-28.00	EOSW
9173	459788.31	2867880.13	10+84.67	-22.83	EOSW
9174	459785.97	2867886.56	10+82.06	-16.50	EOSW
9175	459776.23	2867886.96	10+72.31	-16.50	EOSW
9176	459780.71	2867877.27	10+77.18	-26.00	EOSW
9177	459793.01	2867879.93	10+89.37	-22.83	EOSW
9178	459793.27	2867886.26	10+89.37	-16.50	EOSW
9183	459692.31	2867921.43	9+87.05	14.50	BOC
9184	459714.91	2867920.51	10+09.67	14.50	BOC
9193	459799.84	2867917.02	10+94.67	14.50	BOC
9194	459735.06	2867890.65	10+31.02	-14.50	BOC
9195	459696.89	2867937.23	9+90.98	30.47	EOSW
9196	459696.94	2867939.22	9+90.94	32.46	EOSW
9197	459699.80	2867939.11	9+93.81	32.46	EOSW
9198	459699.76	2867937.11	9+93.86	30.47	EOSW
9201	459649.19	2867892.44	9+45.05	-15.97	BOC
9203	459780.95	2867883.26	10+77.19	-20.00	CEN
9204	459649.21	2867894.94	9+44.99	-13.47	JOINT
9205	459690.94	2867894.97	9+86.70	-12.00	JOINT
9209	459799.00	2867896.54	10+94.67	-6.00	BOLLARD
9210	459799.2477	2867902.532	10+94.67	0	BOLLARD
9211	459799.4938	2867908.527	10+94.67	6	BOLLARD

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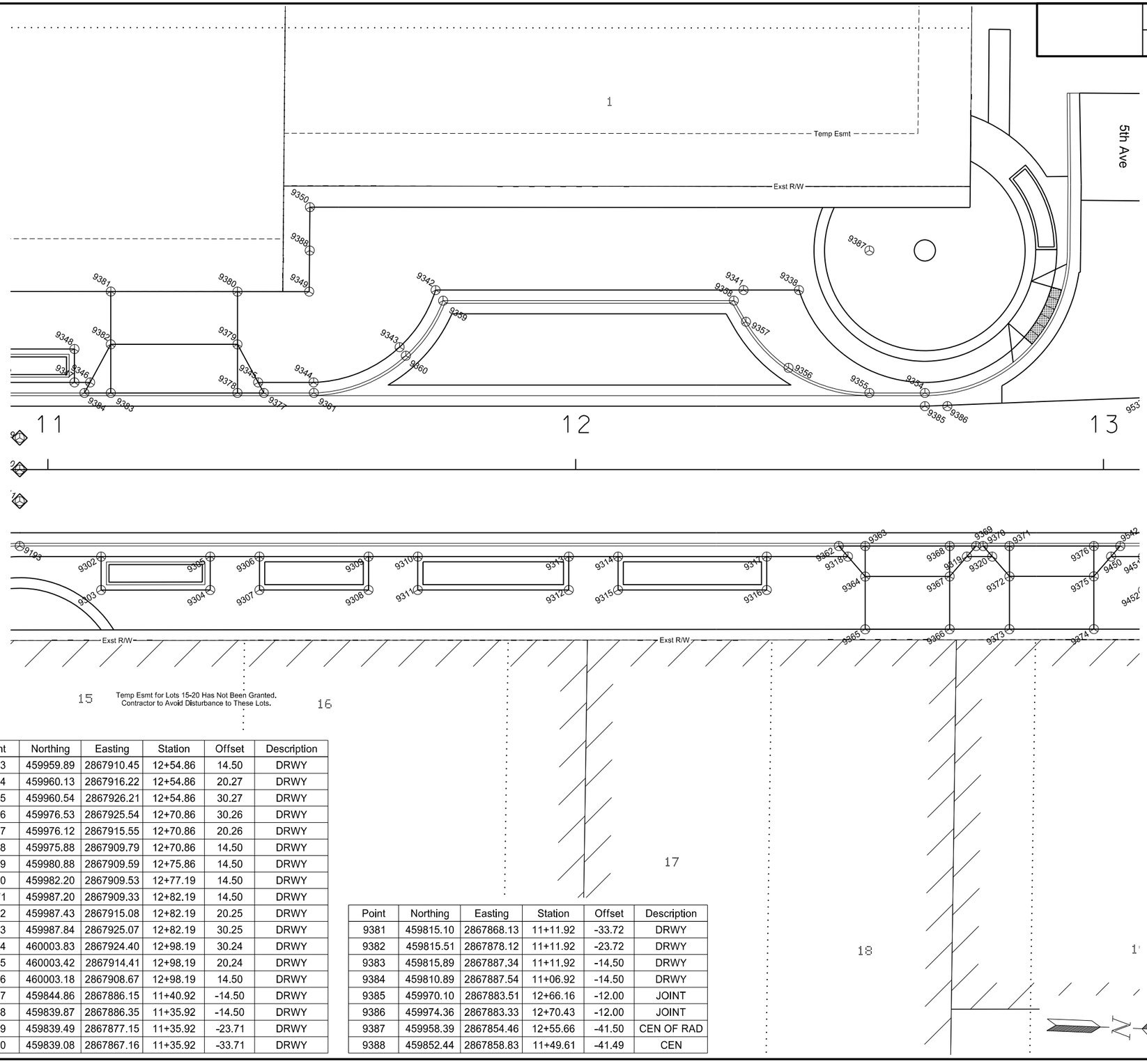
Sheyenne Street

Survey Data Layouts

Sta 9+00 to Sta 11+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	3



Point	Northing	Easting	Station	Offset	Description
9302	459815.33	2867918.39	11+10.09	16.50	EOSW
9303	459815.59	2867924.72	11+10.09	22.84	EOSW
9304	459836.24	2867923.87	11+30.76	22.84	EOSW
9305	459835.98	2867917.54	11+30.76	16.50	EOSW
9306	459845.31	2867917.16	11+40.09	16.50	EOSW
9307	459845.57	2867923.49	11+40.09	22.84	EOSW
9308	459866.22	2867922.64	11+60.76	22.83	EOSW
9309	459865.95	2867916.31	11+60.76	16.50	EOSW
9310	459875.28	2867915.93	11+70.09	16.50	EOSW
9311	459875.54	2867922.25	11+70.09	22.83	EOSW
9312	459904.12	2867921.08	11+98.70	22.83	EOSW
9313	459903.86	2867914.75	11+98.70	16.50	EOSW
9314	459913.19	2867914.37	12+08.04	16.50	EOSW
9315	459913.45	2867920.70	12+08.04	22.83	EOSW
9316	459941.60	2867919.54	12+36.21	22.83	EOSW
9317	459941.34	2867913.21	12+36.21	16.50	EOSW
9318	459956.71	2867912.58	12+51.59	16.50	EOSW
9319	459979.22	2867911.66	12+74.13	16.50	EOSW
9320	459984.02	2867911.46	12+78.92	16.50	EOSW
9338	459945.37	2867862.50	12+42.32	-34.00	EOSW
9341	459934.87	2867862.94	12+31.81	-34.00	EOSW
9342	459876.58	2867865.34	11+73.46	-33.99	EOSW
9343	459870.20	2867876.42	11+66.64	-23.18	EOSW
9344	459854.19	2867883.76	11+50.34	-16.50	EOSW
9345	459843.70	2867884.19	11+39.84	-16.50	EOSW
9346	459811.89	2867885.50	11+08.01	-16.50	EOSW
9347	459808.93	2867885.62	11+05.04	-16.50	EOSW
9348	459808.67	2867879.29	11+05.04	-22.83	EOSW
9349	459852.66	2867866.61	11+49.52	-33.70	EOSW
9350	459852.14	2867850.62	11+49.66	-49.70	EOSW
9354	459970.00	2867881.01	12+66.16	-14.50	BOC
9355	459959.50	2867881.44	12+55.66	-14.50	BOC
9356	459944.01	2867877.31	12+40.35	-19.26	BOC
9357	459935.58	2867868.92	12+32.27	-28.00	BOC
9358	459933.11	2867865.01	12+29.96	-32.00	BOC
9359	459878.08	2867867.28	11+74.89	-31.99	BOC
9360	459871.46	2867877.99	11+67.83	-21.56	BOC
9361	459854.33	2867885.76	11+50.40	-14.50	BOC
9362	459954.90	2867910.66	12+49.86	14.50	DRWY

Point	Northing	Easting	Station	Offset	Description
9363	459959.89	2867910.45	12+54.86	14.50	DRWY
9364	459960.13	2867916.22	12+54.86	20.27	DRWY
9365	459960.54	2867926.21	12+54.86	30.27	DRWY
9366	459976.53	2867925.54	12+70.86	30.26	DRWY
9367	459976.12	2867915.55	12+70.86	20.26	DRWY
9368	459975.88	2867909.79	12+70.86	14.50	DRWY
9369	459980.88	2867909.59	12+75.86	14.50	DRWY
9370	459982.20	2867909.53	12+77.19	14.50	DRWY
9371	459987.20	2867909.33	12+82.19	14.50	DRWY
9372	459987.43	2867915.08	12+82.19	20.25	DRWY
9373	459987.84	2867925.07	12+82.19	30.25	DRWY
9374	460003.83	2867924.40	12+98.19	30.24	DRWY
9375	460003.42	2867914.41	12+98.19	20.24	DRWY
9376	460003.18	2867908.67	12+98.19	14.50	DRWY
9377	459844.86	2867886.15	11+40.92	-14.50	DRWY
9378	459839.87	2867886.35	11+35.92	-14.50	DRWY
9379	459839.49	2867877.15	11+35.92	-23.71	DRWY
9380	459839.08	2867867.16	11+35.92	-33.71	DRWY

Point	Northing	Easting	Station	Offset	Description
9381	459815.10	2867868.13	11+11.92	-33.72	DRWY
9382	459815.51	2867878.12	11+11.92	-23.72	DRWY
9383	459815.89	2867887.34	11+11.92	-14.50	DRWY
9384	459810.89	2867887.54	11+06.92	-14.50	DRWY
9385	459970.10	2867883.51	12+66.16	-12.00	JOINT
9386	459974.36	2867883.33	12+70.43	-12.00	JOINT
9387	459958.39	2867854.46	12+55.66	-41.50	CEN OF RAD
9388	459852.44	2867858.83	11+49.61	-41.49	CEN

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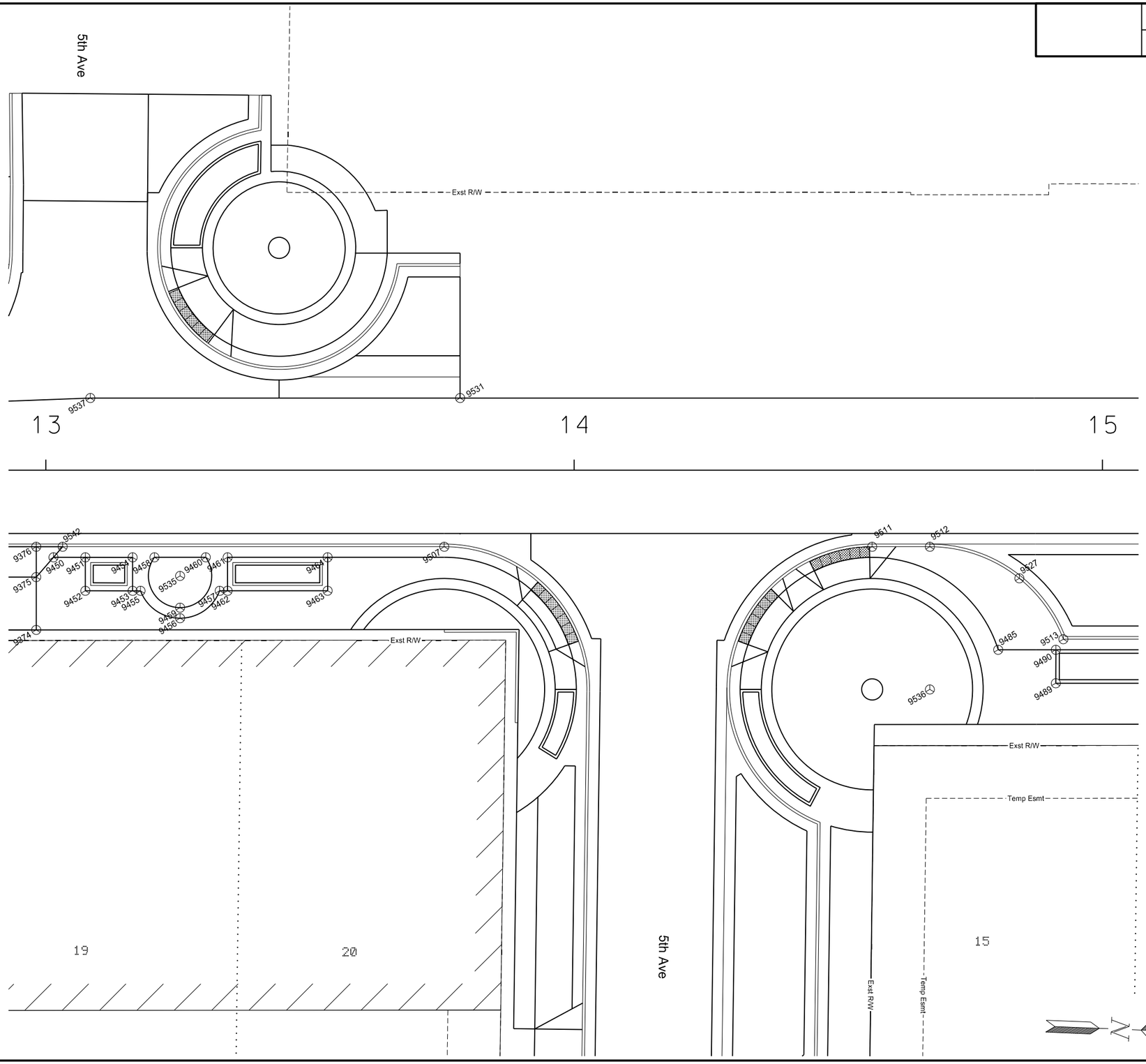
Sheyenne Street

Survey Data Layouts

Sta 11+00 to Sta 13+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	4



Point	Northing	Easting	Station	Offset	Description
9450	460006.52	2867910.54	13+01.45	16.50	EOSW
9451	460012.56	2867910.29	13+07.49	16.50	EOSW
9452	460012.82	2867916.62	13+07.49	22.83	EOSW
9453	460021.75	2867916.26	13+16.43	22.84	EOSW
9454	460021.49	2867909.93	13+16.43	16.51	EOSW
9455	460023.25	2867916.20	13+17.93	22.84	EOSW
9456	460030.95	2867921.07	13+25.42	28.02	EOSW
9457	460038.22	2867915.58	13+32.91	22.84	EOSW
9458	460025.62	2867909.75	13+20.56	16.50	EOSW
9459	460030.86	2867919.07	13+25.42	26.02	EOSW
9460	460035.33	2867909.36	13+30.27	16.50	EOSW
9461	460039.46	2867909.19	13+34.41	16.50	EOSW
9462	460039.72	2867915.52	13+34.41	22.84	EOSW
9463	460058.64	2867914.74	13+53.35	22.83	EOSW
9464	460058.38	2867908.41	13+53.35	16.50	EOSW
9485	460185.92	2867920.69	14+80.28	34.00	EOSW
9489	460197.08	2867926.57	14+91.19	40.33	EOSW
9490	460196.82	2867920.24	14+91.19	34.00	EOSW
9507	460080.35	2867905.51	13+75.42	14.50	BOC
9511	460161.28	2867902.18	14+56.41	14.50	BOC
9512	460172.19	2867901.74	14+67.34	14.50	BOC
9513	460198.16	2867918.18	14+92.61	32.00	BOC
9527	460189.37	2867907.01	14+84.28	20.48	BOC
9531	460082.20	2867877.27	13+78.42	-13.64	EOP
9535	460030.62	2867913.08	13+25.42	20.02	CEN
9536	460173.30	2867928.71	14+67.34	41.50	CEN OF RAD
9537	460012.26	2867880.14	13+08.43	-13.64	JOINT
9542	460008.18	2867908.47	13+03.19	14.50	DRWY

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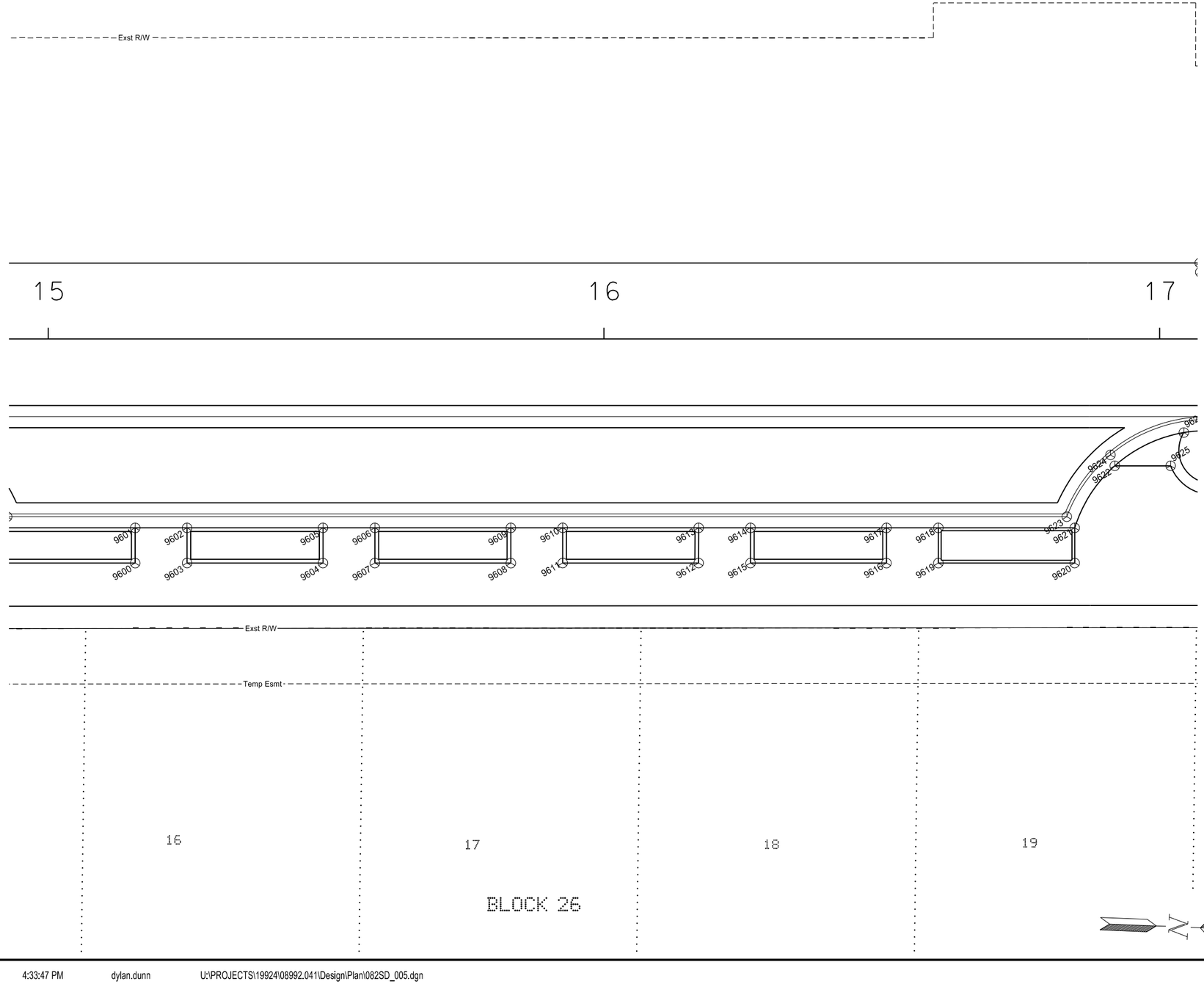
Sheyenne Street

Survey Data Layouts

Sta 13+00 to Sta 15+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	5



Point	Northing	Easting	Station	Offset	Description
9600	460221.53	2867925.57	15+15.65	40.34	EOSW
9601	460221.27	2867919.25	15+15.66	34.01	EOSW
9602	460230.59	2867918.86	15+24.99	34.00	EOSW
9603	460230.85	2867925.18	15+24.99	40.33	EOSW
9604	460255.30	2867924.18	15+49.45	40.33	EOSW
9605	460255.04	2867917.85	15+49.46	34.00	EOSW
9606	460264.36	2867917.47	15+58.79	34.00	EOSW
9607	460264.62	2867923.80	15+58.79	40.33	EOSW
9608	460289.07	2867922.80	15+83.25	40.34	EOSW
9609	460288.81	2867916.47	15+83.25	34.00	EOSW
9610	460298.14	2867916.08	15+92.59	33.99	EOSW
9611	460298.39	2867922.40	15+92.58	40.33	EOSW
9612	460322.84	2867921.41	16+17.05	40.33	EOSW
9613	460322.58	2867915.08	16+17.05	34.00	EOSW
9614	460331.91	2867914.70	16+26.39	34.00	EOSW
9615	460332.16	2867921.02	16+26.38	40.33	EOSW
9616	460356.61	2867920.03	16+50.85	40.34	EOSW
9617	460356.35	2867913.70	16+50.85	34.01	EOSW
9618	460365.68	2867913.31	16+60.19	34.00	EOSW
9619	460365.94	2867919.65	16+60.19	40.34	EOSW
9620	460390.46	2867918.63	16+84.72	40.33	EOSW
9621	460390.20	2867912.30	16+84.73	34.00	EOSW
9622	460396.94	2867900.86	16+91.94	22.84	EOSW
9623	460388.69	2867910.36	16+83.30	32.00	BOC
9624	460396.08	2867898.93	16+91.15	20.87	BOC

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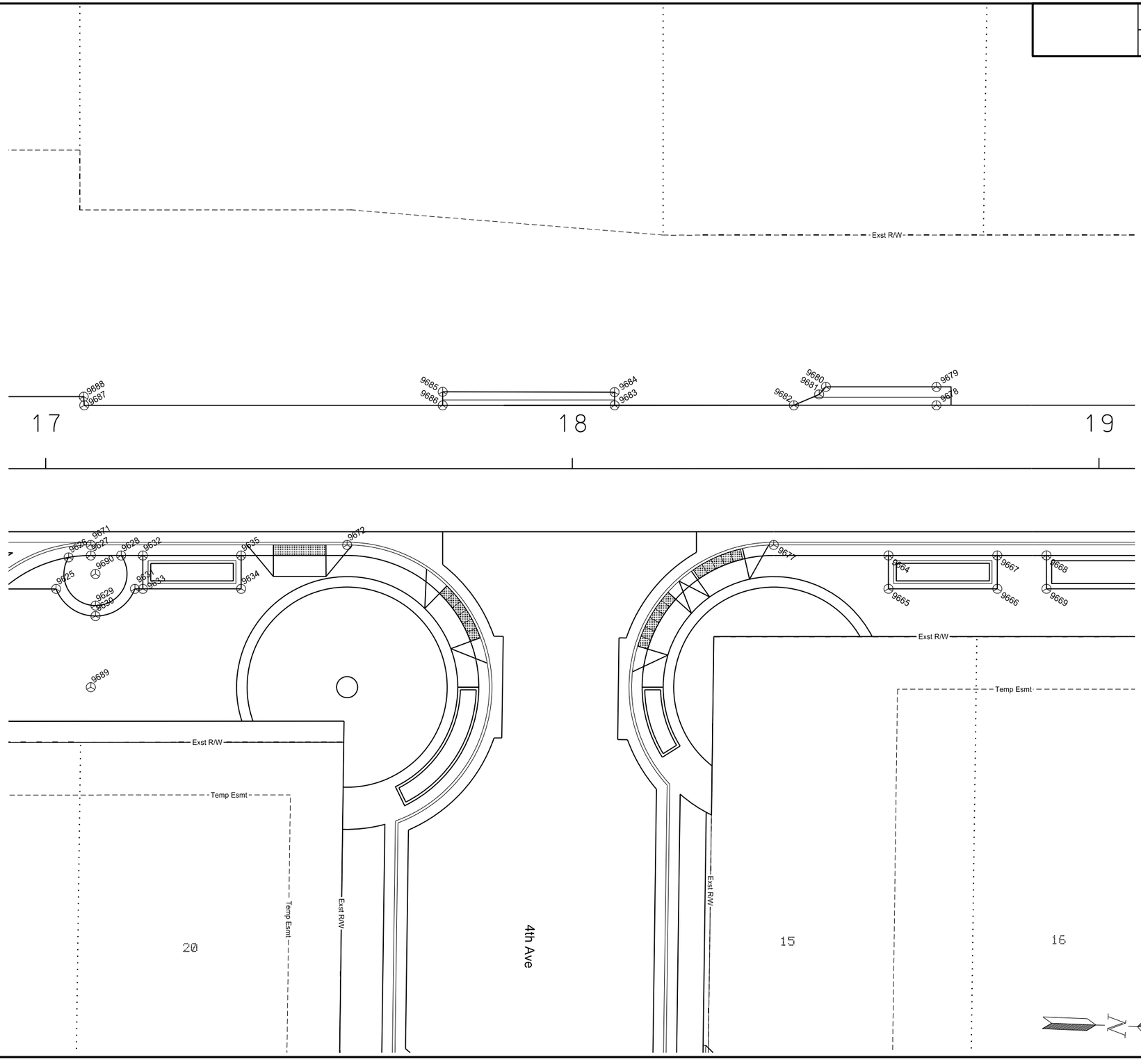
Sheyenne Street

Survey Data Layouts

Sta 15+00 to Sta 17+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	6



Point	Northing	Easting	Station	Offset	Description
9625	460406.98	2867900.45	17+01.98	22.84	EOSW
9626	460409.11	2867894.37	17+04.35	16.86	EOSW
9627	460413.31	2867893.84	17+08.57	16.50	EOSW
9628	460419.06	2867893.61	17+14.34	16.51	EOSW
9629	460414.59	2867903.30	17+09.46	26.01	EOSW
9630	460414.67	2867905.30	17+09.46	28.01	EOSW
9631	460421.93	2867899.83	17+16.95	22.84	EOSW
9632	460423.18	2867893.44	17+18.45	16.51	EOSW
9633	460423.44	2867899.77	17+18.45	22.84	EOSW
9634	460442.09	2867899.00	17+37.12	22.83	EOSW
9635	460441.83	2867892.67	17+37.12	16.50	EOSW
9664	460564.64	2867887.62	18+60.03	16.50	EOSW
9665	460564.90	2867893.95	18+60.03	22.83	EOSW
9666	460585.55	2867893.10	18+80.70	22.83	EOSW
9667	460585.29	2867886.77	18+80.70	16.50	EOSW
9668	460594.61	2867886.39	18+90.03	16.50	EOSW
9669	460594.87	2867892.71	18+90.03	22.83	EOSW
9671	460413.23	2867891.84	17+08.57	14.50	BOC
9672	460461.86	2867889.85	17+57.25	14.50	BOC
9677	460542.79	2867886.52	18+38.25	14.50	BOC
9678	460572.57	2867858.77	18+69.15	-12.00	EOC
9679	460572.43	2867855.27	18+69.15	-15.50	EOC
9680	460551.46	2867856.13	18+48.16	-15.51	EOC
9681	460550.24	2867857.62	18+46.88	-14.07	EOC
9682	460545.52	2867859.88	18+42.07	-12.00	EOC
9683	460511.51	2867861.28	18+08.03	-12.00	EOC
9684	460511.40	2867858.78	18+08.03	-14.50	EOC
9685	460478.79	2867860.05	17+75.38	-14.57	EOC
9686	460478.89	2867862.62	17+75.38	-12.00	EOC
9687	460410.88	2867865.42	17+07.32	-12.00	EOC
9688	460410.72	2867863.77	17+07.22	-13.65	EOC
9689	460414.33	2867918.82	17+08.57	41.50	CEN
9690	460414.34	2867897.31	17+09.46	20.01	CEN

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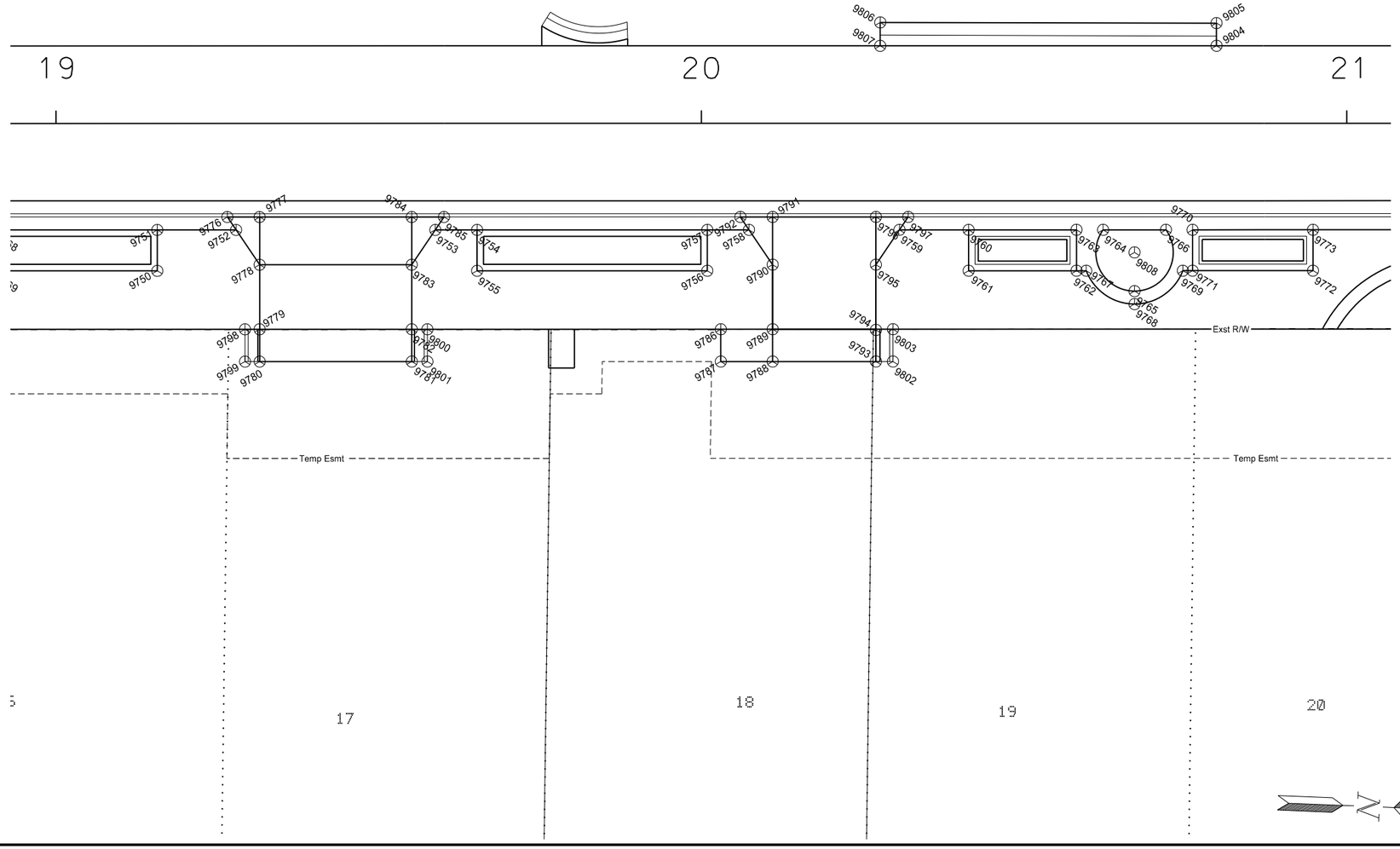
Sheyenne Street

Survey Data Layouts

Sta 17+00 to Sta 19+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	7

Point	Northing	Easting	Station	Offset	Description
9791	460715.44	2867879.41	20+11.05	14.50	DRWY
9792	460710.45	2867879.61	20+06.05	14.50	DRWY
9793	460732.35	2867901.12	20+27.05	36.89	DRWY
9794	460732.15	2867896.24	20+27.05	32.00	DRWY
9795	460731.73	2867886.13	20+27.05	21.89	DRWY
9796	460731.43	2867878.75	20+27.05	14.50	DRWY
9797	460736.43	2867878.54	20+32.05	14.50	DRWY
9798	460634.47	2867900.15	19+29.29	31.89	BOC
9799	460634.68	2867905.14	19+29.29	36.89	BOC
9800	460662.71	2867898.98	19+57.55	31.89	BOC
9801	460662.91	2867903.98	19+57.55	36.89	BOC
9802	460734.99	2867901.01	20+29.69	36.89	BOC
9803	460734.79	2867896.02	20+29.69	31.89	BOC
9804	460783.07	2867850.10	20+79.82	-12.00	EOC
9805	460782.93	2867846.59	20+79.82	-15.52	EOC
9806	460730.87	2867848.62	20+27.73	-15.62	EOC
9807	460731.00	2867852.25	20+27.71	-12.00	EOC
9808	460771.70	2867882.60	20+67.12	20.00	CEN



Point	Northing	Easting	Station	Offset	Description
9750	460620.52	2867891.66	19+15.70	22.83	EOSW
9751	460620.26	2867885.33	19+15.70	16.50	EOSW
9752	460632.46	2867884.83	19+27.91	16.50	EOSW
9753	460663.30	2867883.56	19+58.77	16.50	EOSW
9754	460669.77	2867883.29	19+65.25	16.50	EOSW
9755	460670.03	2867889.62	19+65.25	22.83	EOSW
9756	460705.67	2867888.15	20+00.92	22.83	EOSW
9757	460705.41	2867881.82	20+00.92	16.50	EOSW
9758	460711.86	2867881.56	20+07.38	16.50	EOSW
9759	460735.16	2867880.60	20+30.69	16.50	EOSW
9760	460745.86	2867880.16	20+41.41	16.50	EOSW
9761	460746.12	2867886.49	20+41.41	22.83	EOSW
9762	460762.83	2867885.80	20+58.13	22.83	EOSW
9763	460762.57	2867879.47	20+58.13	16.50	EOSW
9764	460766.68	2867879.30	20+62.25	16.50	EOSW
9765	460771.94	2867888.59	20+67.12	26.00	EOSW
9766	460776.42	2867878.90	20+71.99	16.50	EOSW
9767	460764.34	2867885.74	20+59.64	22.83	EOSW
9768	460772.03	2867890.59	20+67.12	28.00	EOSW
9769	460779.29	2867885.12	20+74.60	22.83	EOSW
9770	460780.53	2867878.73	20+76.11	16.50	EOSW
9771	460780.79	2867885.06	20+76.11	22.83	EOSW
9772	460799.44	2867884.29	20+94.77	22.83	EOSW
9773	460799.18	2867877.96	20+94.77	16.50	EOSW
9776	460631.03	2867882.88	19+26.56	14.50	DRWY
9777	460636.02	2867882.68	19+31.56	14.50	DRWY
9778	460636.33	2867890.06	19+31.56	21.89	DRWY
9779	460636.74	2867900.05	19+31.56	31.89	DRWY
9780	460636.95	2867905.05	19+31.56	36.89	DRWY
9781	460660.49	2867904.08	19+55.13	36.89	DRWY
9782	460660.29	2867899.08	19+55.13	31.89	DRWY
9783	460659.88	2867889.09	19+55.13	21.89	DRWY
9784	460659.57	2867881.71	19+55.13	14.50	DRWY
9785	460664.57	2867881.50	19+60.13	14.50	DRWY
9786	460708.13	2867897.11	20+03.01	31.89	DRWY
9787	460708.34	2867902.11	20+03.01	36.89	DRWY
9788	460716.37	2867901.78	20+11.05	36.89	DRWY
9789	460716.16	2867896.78	20+11.05	31.89	DRWY
9790	460715.75	2867886.79	20+11.05	21.89	DRWY

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Sheyenne Street

Survey Data Layouts

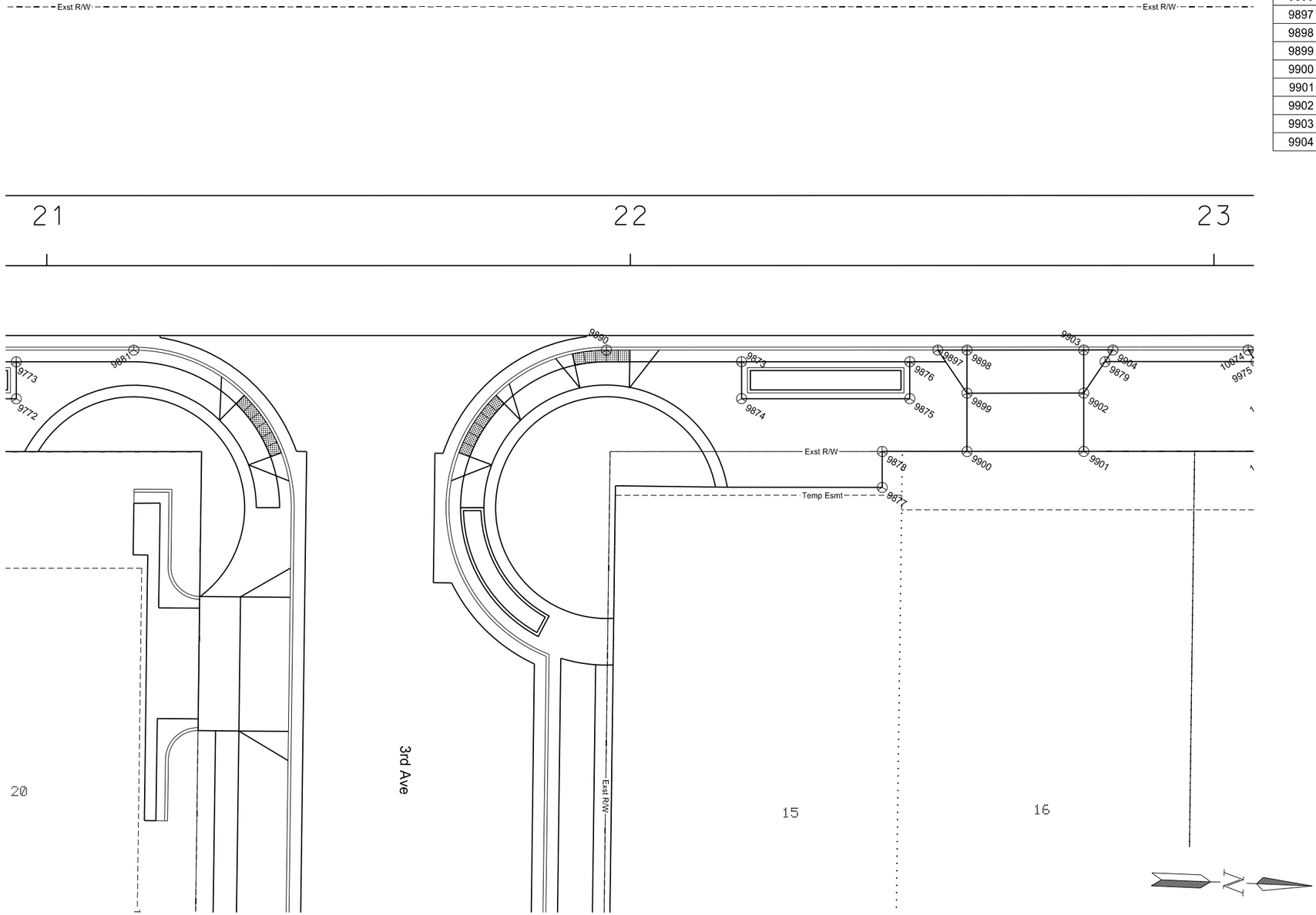
Sta 19+00 to Sta 21+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	82	8

BLOCK 1

1

Point	Northing	Easting	Station	Offset	Description
9873	460923.36	2867872.85	22+19.06	16.50	EOSW
9874	460923.62	2867879.18	22+19.06	22.83	EOSW
9875	460952.42	2867877.99	22+47.88	22.83	EOSW
9876	460952.16	2867871.66	22+47.88	16.50	EOSW
9877	460948.33	2867893.39	22+43.16	38.05	EOSW
9878	460948.08	2867887.23	22+43.16	31.89	EOSW
9879	460985.59	2867870.29	22+81.34	16.50	EOSW
9881	460819.21	2867875.14	21+14.90	14.50	BOC
9890	460900.15	2867871.80	21+95.91	14.50	BOC
9897	460956.89	2867869.47	22+52.69	14.50	DRWY
9898	460961.88	2867869.26	22+57.69	14.50	DRWY
9899	460962.19	2867876.64	22+57.69	21.89	DRWY
9900	460962.60	2867886.63	22+57.69	31.89	DRWY
9901	460982.58	2867885.81	22+77.69	31.89	DRWY
9902	460982.17	2867875.82	22+77.69	21.89	DRWY
9903	460981.87	2867868.44	22+77.69	14.50	DRWY
9904	460986.86	2867868.23	22+82.69	14.50	DRWY



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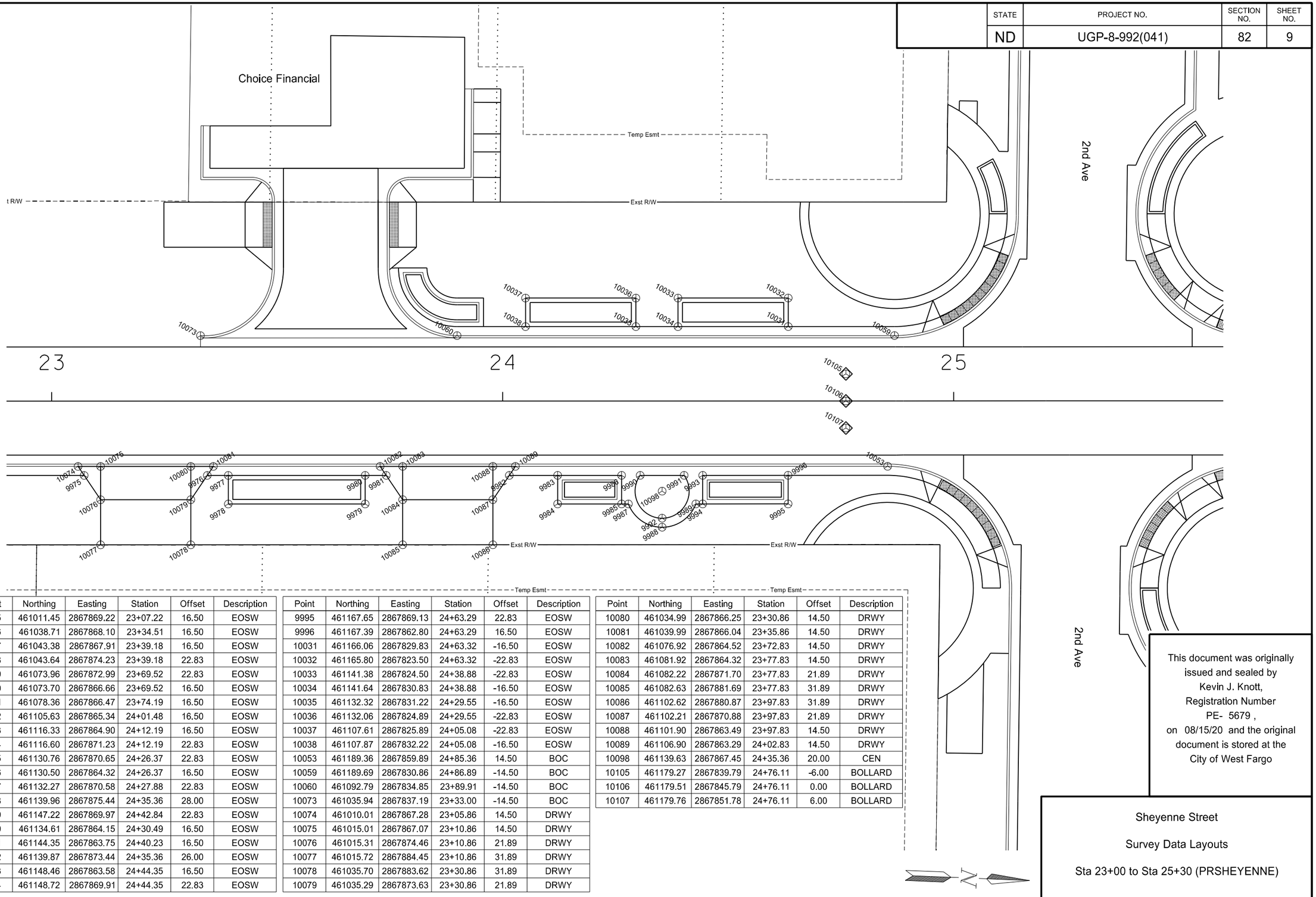
Sheyenne Street

Survey Data Layouts

Sta 21+00 to Sta 23+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	9



Point	Northing	Easting	Station	Offset	Description
9975	461011.45	2867869.22	23+07.22	16.50	EOSW
9976	461038.71	2867868.10	23+34.51	16.50	EOSW
9977	461043.38	2867867.91	23+39.18	16.50	EOSW
9978	461043.64	2867874.23	23+39.18	22.83	EOSW
9979	461073.96	2867872.99	23+69.52	22.83	EOSW
9980	461073.70	2867866.66	23+69.52	16.50	EOSW
9981	461078.36	2867866.47	23+74.19	16.50	EOSW
9982	461105.63	2867865.34	24+01.48	16.50	EOSW
9983	461116.33	2867864.90	24+12.19	16.50	EOSW
9984	461116.60	2867871.23	24+12.19	22.83	EOSW
9985	461130.76	2867870.65	24+26.37	22.83	EOSW
9986	461130.50	2867864.32	24+26.37	16.50	EOSW
9987	461132.27	2867870.58	24+27.88	22.83	EOSW
9988	461139.96	2867875.44	24+35.36	28.00	EOSW
9989	461147.22	2867869.97	24+42.84	22.83	EOSW
9990	461134.61	2867864.15	24+30.49	16.50	EOSW
9991	461144.35	2867863.75	24+40.23	16.50	EOSW
9992	461139.87	2867873.44	24+35.36	26.00	EOSW
9993	461148.46	2867863.58	24+44.35	16.50	EOSW
9994	461148.72	2867869.91	24+44.35	22.83	EOSW

Point	Northing	Easting	Station	Offset	Description
9995	461167.65	2867869.13	24+63.29	22.83	EOSW
9996	461167.39	2867862.80	24+63.29	16.50	EOSW
10031	461166.06	2867829.83	24+63.32	-16.50	EOSW
10032	461165.80	2867823.50	24+63.32	-22.83	EOSW
10033	461141.38	2867824.50	24+38.88	-22.83	EOSW
10034	461141.64	2867830.83	24+38.88	-16.50	EOSW
10035	461132.32	2867831.22	24+29.55	-16.50	EOSW
10036	461132.06	2867824.89	24+29.55	-22.83	EOSW
10037	461107.61	2867825.89	24+05.08	-22.83	EOSW
10038	461107.87	2867832.22	24+05.08	-16.50	EOSW
10053	461189.36	2867859.89	24+85.36	14.50	BOC
10059	461189.69	2867830.86	24+86.89	-14.50	BOC
10060	461092.79	2867834.85	23+89.91	-14.50	BOC
10073	461035.94	2867837.19	23+33.00	-14.50	BOC
10074	461010.01	2867867.28	23+05.86	14.50	DRWY
10075	461015.01	2867867.07	23+10.86	14.50	DRWY
10076	461015.31	2867874.46	23+10.86	21.89	DRWY
10077	461015.72	2867884.45	23+10.86	31.89	DRWY
10078	461035.70	2867883.62	23+30.86	31.89	DRWY
10079	461035.29	2867873.63	23+30.86	21.89	DRWY

Point	Northing	Easting	Station	Offset	Description
10080	461034.99	2867866.25	23+30.86	14.50	DRWY
10081	461039.99	2867866.04	23+35.86	14.50	DRWY
10082	461076.92	2867864.52	23+72.83	14.50	DRWY
10083	461081.92	2867864.32	23+77.83	14.50	DRWY
10084	461082.22	2867871.70	23+77.83	21.89	DRWY
10085	461082.63	2867881.69	23+77.83	31.89	DRWY
10086	461102.62	2867880.87	23+97.83	31.89	DRWY
10087	461102.21	2867870.88	23+97.83	21.89	DRWY
10088	461101.90	2867863.49	23+97.83	14.50	DRWY
10089	461106.90	2867863.29	24+02.83	14.50	DRWY
10098	461139.63	2867867.45	24+35.36	20.00	CEN
10105	461179.27	2867839.79	24+76.11	-6.00	BOLLARD
10106	461179.51	2867845.79	24+76.11	0.00	BOLLARD
10107	461179.76	2867851.78	24+76.11	6.00	BOLLARD

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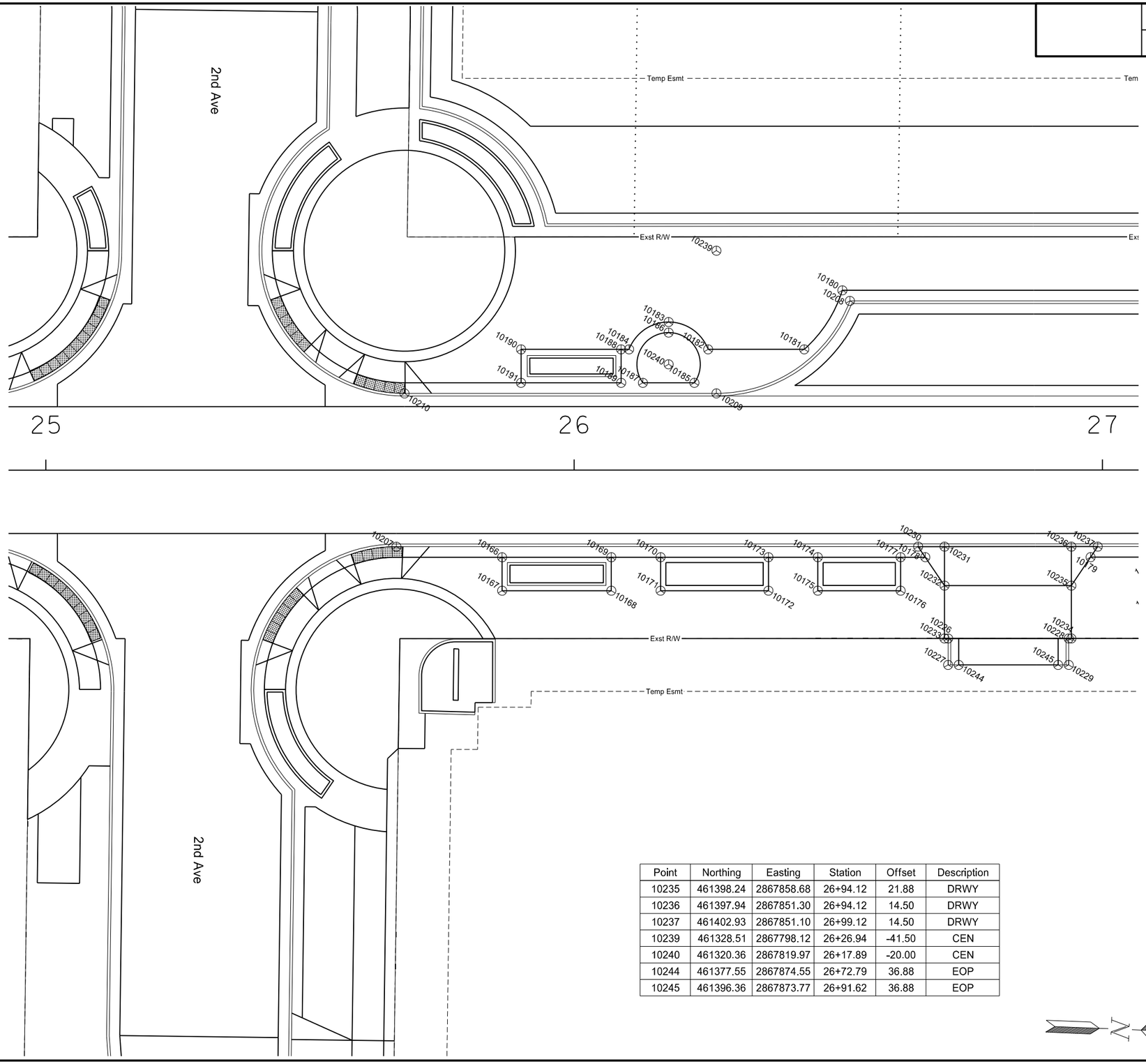
Sheyenne Street

Survey Data Layouts

Sta 23+00 to Sta 25+30 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	10



Point	Northing	Easting	Station	Offset	Description
10166	461290.36	2867857.74	25+86.37	16.50	EOSW
10167	461290.62	2867864.06	25+86.37	22.83	EOSW
10168	461311.27	2867863.21	26+07.03	22.83	EOSW
10169	461311.01	2867856.89	26+07.03	16.50	EOSW
10170	461320.34	2867856.50	26+16.37	16.50	EOSW
10171	461320.60	2867862.83	26+16.37	22.83	EOSW
10172	461341.00	2867861.99	26+36.79	22.83	EOSW
10173	461340.74	2867855.66	26+36.79	16.50	EOSW
10174	461350.06	2867855.28	26+46.12	16.50	EOSW
10175	461350.32	2867861.61	26+46.12	22.83	EOSW
10176	461366.00	2867860.96	26+61.81	22.83	EOSW
10177	461365.74	2867854.63	26+61.81	16.50	EOSW
10178	461370.40	2867854.44	26+66.47	16.50	EOSW
10179	461401.66	2867853.15	26+97.76	16.50	EOSW
10180	461352.65	2867804.63	26+50.79	-34.00	EOSW
10181	461345.90	2867816.08	26+43.57	-22.83	EOSW
10182	461327.72	2867816.83	26+25.38	-22.83	EOSW
10183	461320.03	2867811.98	26+17.89	-28.00	EOSW
10184	461312.77	2867817.45	26+10.41	-22.83	EOSW
10185	461325.37	2867823.27	26+22.77	-16.50	EOSW
10186	461320.11	2867813.97	26+17.89	-26.00	EOSW
10187	461315.63	2867823.67	26+13.02	-16.50	EOSW
10188	461311.25	2867817.51	26+08.90	-22.83	EOSW
10189	461311.53	2867823.84	26+08.91	-16.50	EOSW
10190	461292.34	2867818.29	25+89.96	-22.83	EOSW
10191	461292.60	2867824.62	25+89.96	-16.50	EOSW
10207	461270.30	2867856.56	25+66.37	14.50	BOC
10208	461354.16	2867806.57	26+52.21	-32.00	BOC
10209	461329.62	2867825.09	26+26.94	-14.50	BOC
10210	461270.63	2867827.52	25+67.89	-14.50	BOC
10226	461375.35	2867869.63	26+70.79	31.88	BOC
10227	461375.55	2867874.63	26+70.79	36.88	BOC
10228	461398.16	2867868.69	26+93.62	31.88	BOC
10229	461398.36	2867873.69	26+93.62	36.88	BOC
10230	461368.96	2867852.50	26+65.12	14.50	DRWY
10231	461373.96	2867852.29	26+70.12	14.50	DRWY
10232	461374.26	2867859.67	26+70.12	21.88	DRWY
10233	461374.67	2867869.66	26+70.12	31.88	DRWY
10234	461398.65	2867868.67	26+94.12	31.88	DRWY

Point	Northing	Easting	Station	Offset	Description
10235	461398.24	2867858.68	26+94.12	21.88	DRWY
10236	461397.94	2867851.30	26+94.12	14.50	DRWY
10237	461402.93	2867851.10	26+99.12	14.50	DRWY
10239	461328.51	2867798.12	26+26.94	-41.50	CEN
10240	461320.36	2867819.97	26+17.89	-20.00	CEN
10244	461377.55	2867874.55	26+72.79	36.88	EOP
10245	461396.36	2867873.77	26+91.62	36.88	EOP

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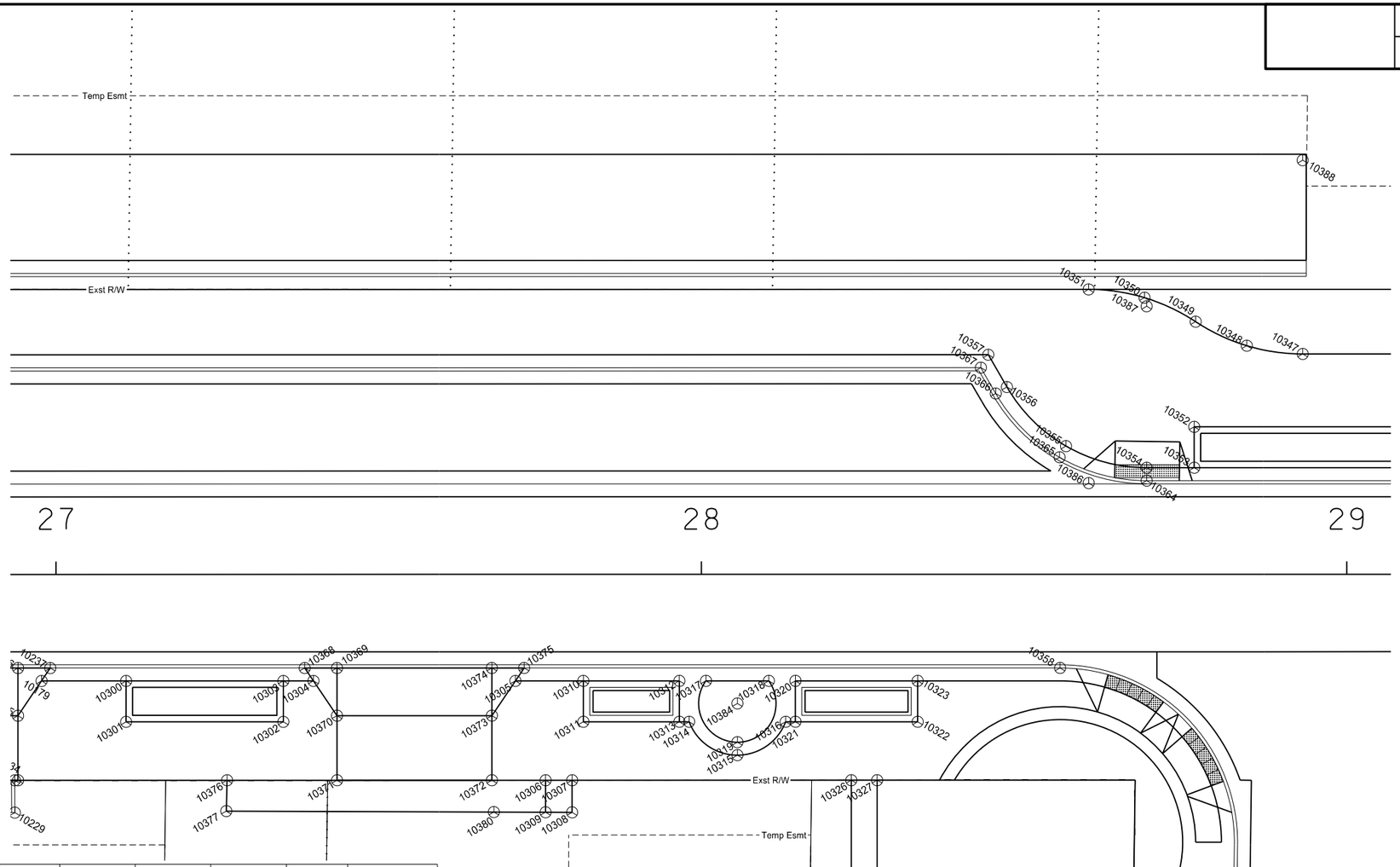
Sheyenne Street

Survey Data Layouts

Sta 25+30 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	11



Point	Northing	Easting	Station	Offset	Description
10358	461559.27	2867844.66	28+55.58	14.50	BOC
10364	461571.48	2867815.13	28+69.00	-14.50	BOC
10365	461557.85	2867812.08	28+55.50	-18.12	BOC
10366	461547.56	2867802.61	28+45.62	-28.00	BOC
10367	461545.09	2867798.71	28+43.31	-32.00	BOC
10368	461442.32	2867849.48	27+38.54	14.50	DRWY
10369	461447.32	2867849.27	27+43.54	14.50	DRWY
10370	461447.62	2867856.65	27+43.54	21.88	DRWY
10371	461448.04	2867866.64	27+43.54	31.88	DRWY
10372	461472.01	2867865.65	27+67.54	31.88	DRWY
10373	461471.60	2867855.66	27+67.54	21.88	DRWY
10374	461471.30	2867848.28	27+67.54	14.50	DRWY
10375	461476.30	2867848.08	27+72.54	14.50	DRWY
10376	461431.01	2867867.34	27+26.51	31.88	EOP
10377	461431.09	2867872.12	27+26.38	36.66	EOP
10380	461472.52	2867870.56	27+67.85	36.81	EOP
10384	461509.53	2867852.21	28+05.58	20.00	CEN
10386	461562.52	2867815.89	28+60.02	-14.11	CEN
10387	461570.37	2867788.16	28+69.00	-41.50	CEN
10388	461593.60	2867764.57	28+93.18	-64.11	CEN

Point	Northing	Easting	Station	Offset	Description
10300	461414.75	2867852.61	27+10.87	16.50	EOSW
10301	461415.02	2867858.94	27+10.87	22.84	EOSW
10302	461439.36	2867857.94	27+35.23	22.84	EOSW
10303	461439.10	2867851.61	27+35.23	16.50	EOSW
10304	461443.76	2867851.42	27+39.90	16.50	EOSW
10305	461475.02	2867850.13	27+71.19	16.50	EOSW
10306	461480.33	2867865.31	27+75.86	31.88	EOSW
10307	461484.44	2867865.14	27+79.97	31.88	EOSW
10308	461484.64	2867870.11	27+79.97	36.86	EOSW
10309	461480.53	2867870.26	27+75.86	36.84	EOSW
10310	461485.54	2867849.70	27+81.72	16.50	EOSW
10311	461485.80	2867856.03	27+81.72	22.83	EOSW
10312	461500.41	2867849.09	27+96.59	16.50	EOSW
10313	461500.67	2867855.42	27+96.59	22.83	EOSW
10314	461502.18	2867855.35	27+98.10	22.83	EOSW
10315	461509.86	2867860.21	28+05.58	28.00	EOSW
10316	461517.13	2867854.74	28+13.07	22.83	EOSW
10317	461504.52	2867848.92	28+00.71	16.50	EOSW
10318	461514.26	2867848.52	28+10.46	16.50	EOSW
10319	461509.78	2867858.21	28+05.58	26.00	EOSW
10320	461518.37	2867848.35	28+14.57	16.50	EOSW
10321	461518.63	2867854.68	28+14.57	22.83	EOSW
10322	461537.56	2867853.90	28+33.51	22.83	EOSW
10323	461537.30	2867847.57	28+33.51	16.50	EOSW
10324	461528.44	2867882.51	28+23.23	51.05	EOSW
10325	461532.44	2867882.41	28+27.23	51.11	EOSW
10326	461527.66	2867863.36	28+23.23	31.88	EOSW
10327	461531.65	2867863.20	28+27.23	31.88	EOSW
10347	461594.83	2867794.54	28+93.18	-34.11	EOSW
10348	461586.13	2867793.62	28+84.52	-35.39	EOSW
10349	461578.06	2867790.23	28+76.60	-39.11	EOSW
10350	461569.99	2867786.83	28+68.68	-42.84	EOSW
10351	461561.28	2867785.91	28+60.02	-44.11	EOSW
10352	461578.50	2867806.51	28+76.37	-22.83	EOSW
10353	461578.76	2867812.83	28+76.37	-16.50	EOSW
10354	461571.40	2867813.14	28+69.00	-16.50	EOSW
10355	461558.77	2867810.30	28+56.50	-19.85	EOSW
10356	461549.25	2867801.54	28+47.35	-29.00	EOSW
10357	461546.16	2867796.66	28+44.47	-34.00	EOSW

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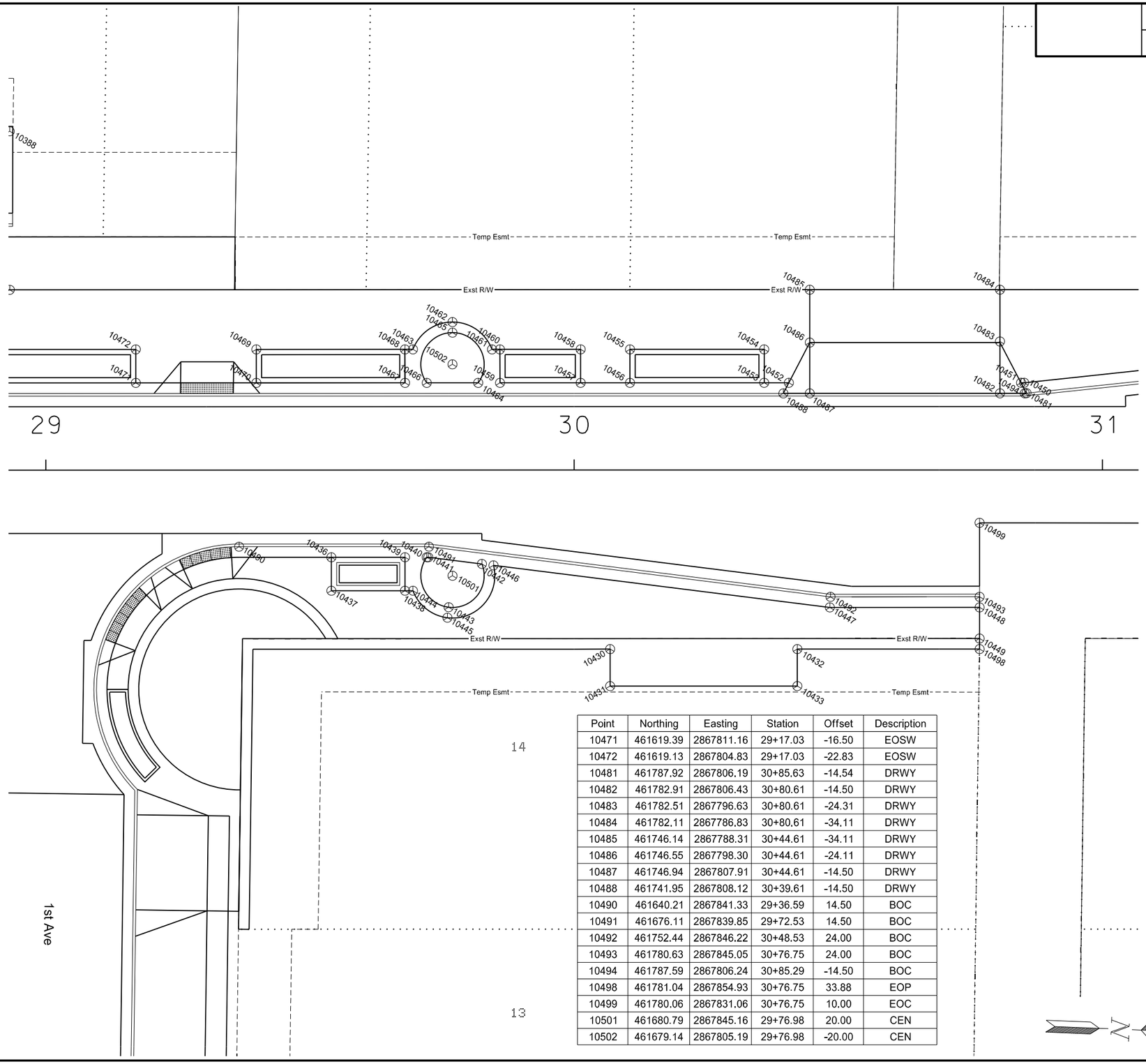
Sheyenne Street

Survey Data Layouts

Sta 27+00 to Sta 29+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	12



Point	Northing	Easting	Station	Offset	Description
10430	461711.16	2867857.81	30+06.81	33.89	EOP
10431	461711.45	2867864.80	30+06.81	40.89	EOP
10432	461746.57	2867856.35	30+42.25	33.88	EOP
10433	461746.86	2867863.34	30+42.25	40.88	EOP
10436	461657.73	2867842.61	29+54.05	16.50	EOSW
10437	461657.99	2867848.94	29+54.05	22.83	EOSW
10438	461671.92	2867848.36	29+67.99	22.83	EOSW
10439	461671.66	2867842.04	29+67.99	16.50	EOSW
10440	461675.77	2867841.87	29+72.11	16.50	EOSW
10441	461676.07	2867841.85	29+72.40	16.50	EOSW
10442	461686.26	2867842.70	29+82.55	17.77	EOSW
10443	461680.31	2867851.14	29+76.26	25.96	EOSW
10444	461673.43	2867848,30	29+69.50	22,83	EOSW
10445	461680.15	2867853.14	29+76.02	27.94	EOSW
10446	461688.45	2867842.89	29+84.74	18.04	EOSW
10447	461752.40	2867848.22	30+48.40	26.00	EOSW
10448	461780.72	2867847.05	30+76.75	26.00	EOSW
10449	461780.96	2867852.93	30+76.75	31.88	EOSW
10450	461787.40	2867804.24	30+85.19	-16.50	EOSW
10451	461786.81	2867804.27	30+84.60	-16.50	EOSW
10452	461742.90	2867806.07	30+40.65	-16.50	EOSW
10453	461738.24	2867806.27	30+35.99	-16.50	EOSW
10454	461737.98	2867799.94	30+35.99	-22.83	EOSW
10455	461712.59	2867800.98	30+10.58	-22.83	EOSW
10456	461712.85	2867807.31	30+10.58	-16.50	EOSW
10457	461703.53	2867807.70	30+01.24	-16.50	EOSW
10458	461703.27	2867801.37	30+01.24	-22.83	EOSW
10459	461688.28	2867808.32	29+85.98	-16.50	EOSW
10460	461688.00	2867802.00	29+85.96	-22.83	EOSW
10461	461686.50	2867802,06	29+84.46	-22.83	EOSW
10462	461678.81	2867797.20	29+76.98	-28.00	EOSW
10463	461671.55	2867802.67	29+69.50	-22.83	EOSW
10464	461684.15	2867808.49	29+81.85	-16.50	EOSW
10465	461678.89	2867799.20	29+76.98	-26.00	EOSW
10466	461674.42	2867808.89	29+72.11	-16.50	EOSW
10467	461670.31	2867809.06	29+68.00	-16.50	EOSW
10468	461670.03	2867802.74	29+67.98	-22.83	EOSW
10469	461641.93	2867803.89	29+39.85	-22.83	EOSW
10470	461642.19	2867810.22	29+39.85	-16.50	EOSW

Point	Northing	Easting	Station	Offset	Description
10471	461619.39	2867811.16	29+17.03	-16.50	EOSW
10472	461619.13	2867804.83	29+17.03	-22.83	EOSW
10481	461787.92	2867806.19	30+85.63	-14.54	DRWY
10482	461782.91	2867806.43	30+80.61	-14.50	DRWY
10483	461782.51	2867796.63	30+80.61	-24.31	DRWY
10484	461782.11	2867786,83	30+80.61	-34.11	DRWY
10485	461746.14	2867788.31	30+44.61	-34.11	DRWY
10486	461746.55	2867798.30	30+44.61	-24.11	DRWY
10487	461746.94	2867807.91	30+44.61	-14.50	DRWY
10488	461741.95	2867808.12	30+39.61	-14.50	DRWY
10490	461640.21	2867841.33	29+36.59	14.50	BOC
10491	461676.11	2867839.85	29+72.53	14.50	BOC
10492	461752.44	2867846.22	30+48.53	24.00	BOC
10493	461780.63	2867845.05	30+76.75	24.00	BOC
10494	461787.59	2867806.24	30+85.29	-14.50	BOC
10498	461781.04	2867854.93	30+76.75	33.88	EOP
10499	461780.06	2867831.06	30+76.75	10.00	EOC
10501	461680.79	2867845.16	29+76.98	20.00	CEN
10502	461679.14	2867805.19	29+76.98	-20.00	CEN

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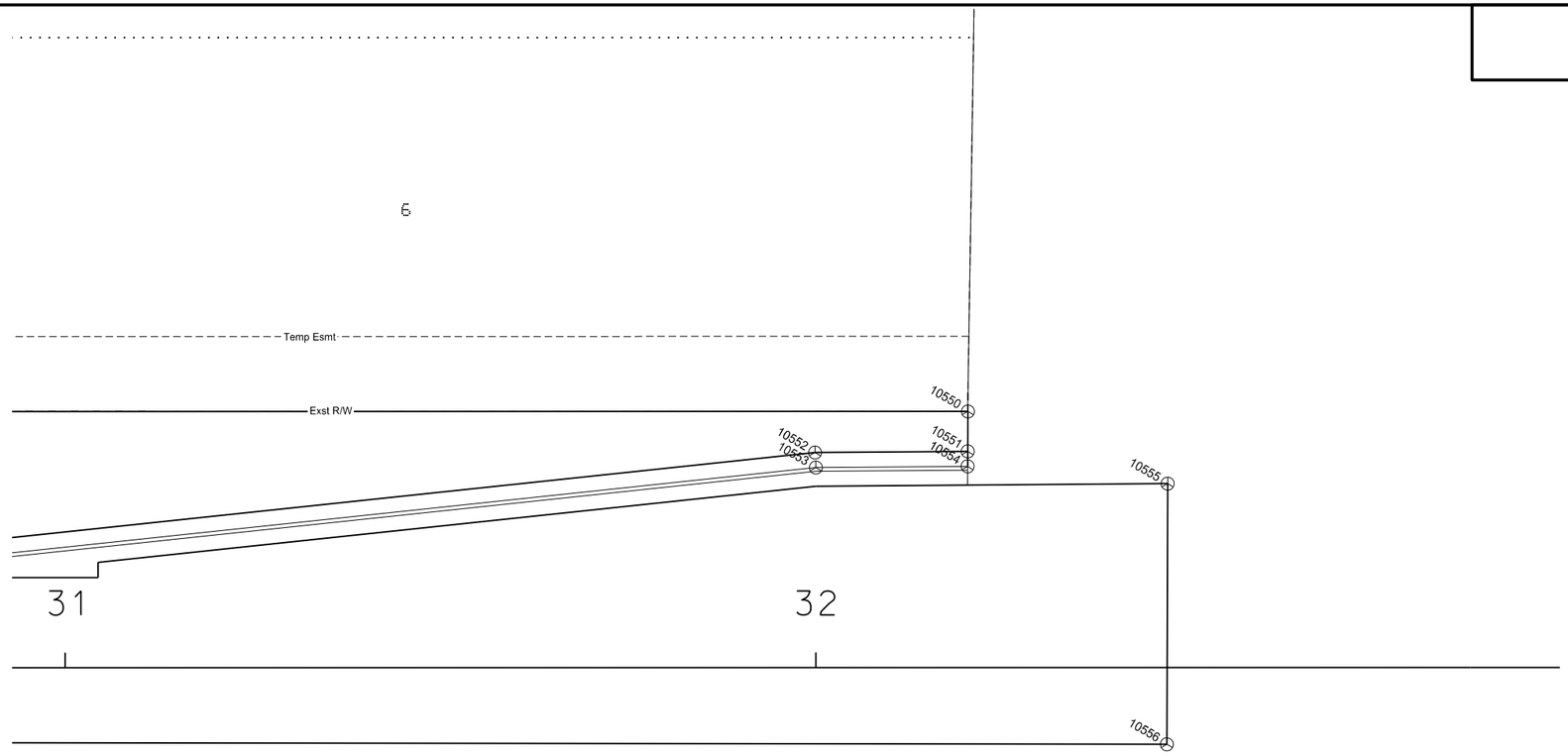
Sheyenne Street

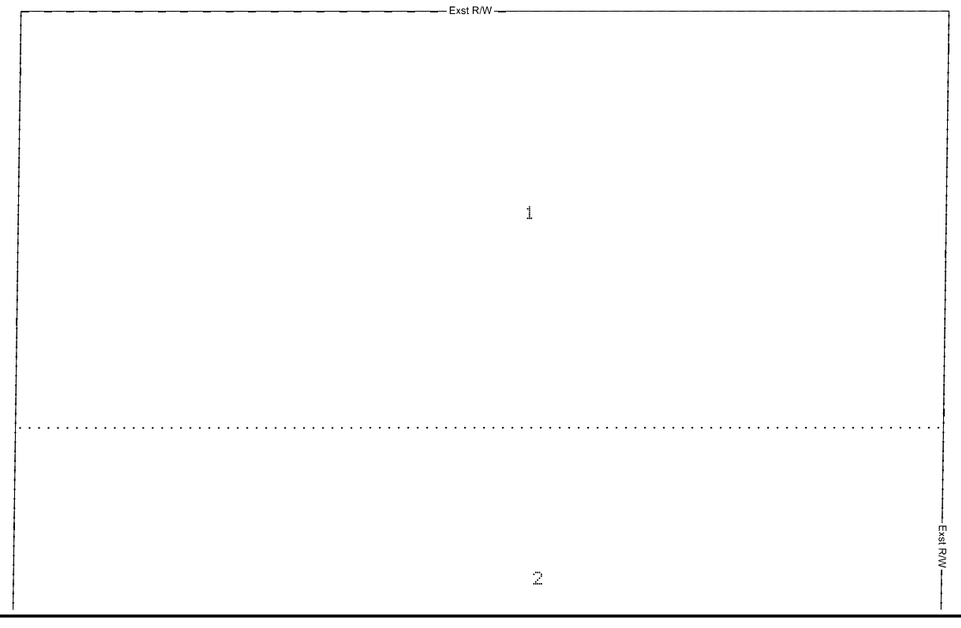
Survey Data Layouts

Sta 29+00 to Sta 31+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	82	13

Point	Northing	Easting	Station	Offset	Description
10550	461921.65	2867781.08	32+20.27	-34.12	EOSW
10551	461921.83	2867786.40	32+20.24	-28.80	EOSW
10552	461901.52	2867787.39	31+99.90	-28.65	EOSW
10553	461901.71	2867789.38	32+00.02	-26.65	BOC
10554	461921.90	2867788.40	32+20.23	-26.80	BOC
10555	461948.62	2867789.60	32+46.87	-24.49	EOC
10556	461949.94	2867824.32	32+46.76	10.24	EOC





U.S. Hwy No. 10 & 52 -
Main Ave W

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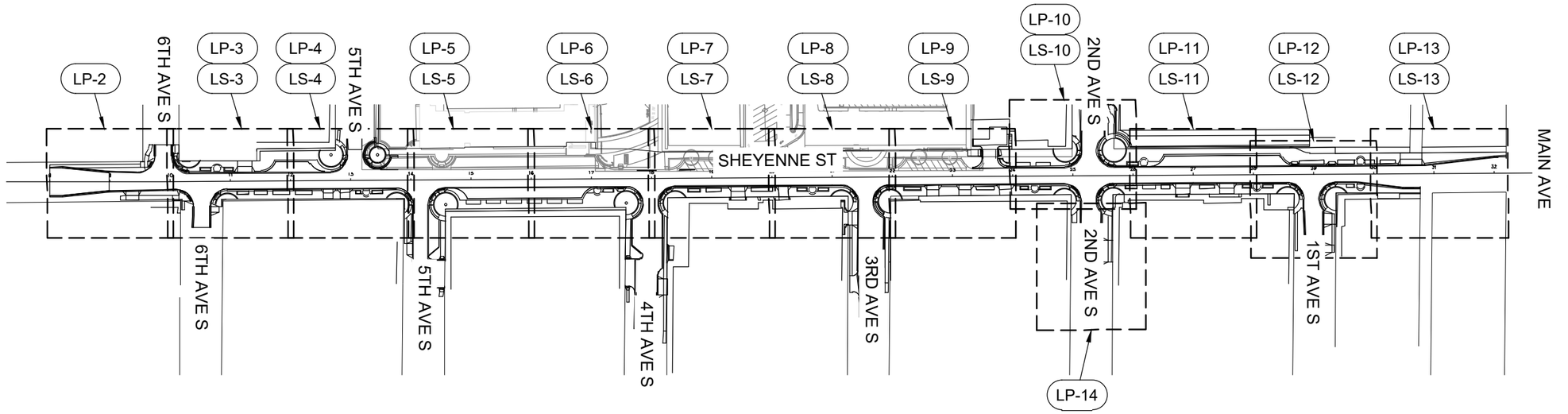
Sheyenne Street

Survey Data Layouts

Sta 31+00 to Sta 33+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	1



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LS-4 Site Plan Sta 12+00 to Sta 14+00
LS-5 Site Plan Sta 14+00 to Sta 16+00
LS-6 Site Plan Sta 16+00 to Sta 18+00
LS-7 Site Plan Sta 18+00 to Sta 20+00
LS-8 Site Plan Sta 20+00 to Sta 22+00
LS-9 Site Plan Sta 22+00 to Sta 24+00
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LS-12 Site Plan Sta 28+00 to Sta 30+00
LS-13 Site Plan Sta 30+00 to End
LS-14 Construction Details
LS-15 Construction Details
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LP-6 Landscape Plan Sta 16+00 to Sta 18+00
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LANDSCAPE PLANTING PLAN

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LP-20 Enlarged Landscape Plan
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LP-22 Enlarged Landscape Plan
LP-23 Enlarged Landscape Plan
LP-24 Plant Schedule
LP-25 Planting Details

0' 100' 200' 400'

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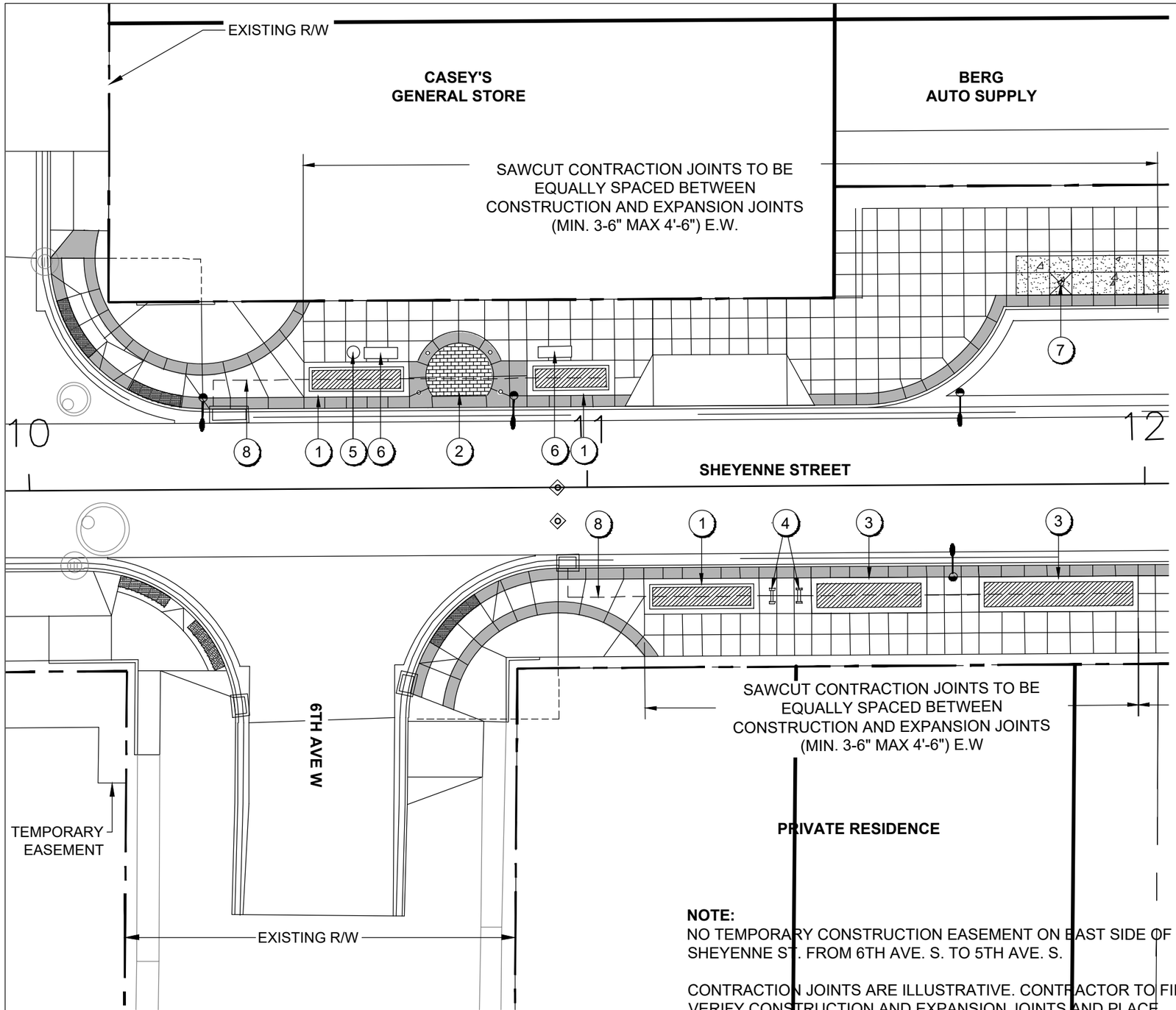
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-1
LANDSCAPE SHEET LAYOUT
SHEYENNE STREET



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	2

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	
			181 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	
			125 LF
930	9543	RETAINING WALL	
			162 SF
970	600	CAST IRON TREE GRATE	
		11+85.1' - 36.0' LT	1 EA
970	4	LANDSCAPE INTERLOCKING BLOCK	
			96 SF
970	60	PLANTING SOIL	
			32 CY
970	50	STRUCTURAL SOIL	
			18 CY
970	300	BENCH	
		STA 10+63.2' - 24.3' LT	1 EA
		STA 10+94.4' - 24.3' LT	1 EA
970	320	TRASH RECEPTACLE	
		STA 10+58.2' - 24.5' LT	1 EA
970	450	BIKE RACKS	
		STA 11+33.0' - 19.7' RT	1 EA
		STA 11+37.9' - 19.7' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
NO TEMPORARY CONSTRUCTION EASEMENT ON EAST SIDE OF SHEYENNE ST. FROM 6TH AVE. S. TO 5TH AVE. S.

CONTRACTION JOINTS ARE ILLUSTRATIVE. CONTRACTOR TO FIELD VERIFY CONSTRUCTION AND EXPANSION JOINTS AND PLACE CONTRACTION JOINTS AS SHOWN ON PLAN. CONTRACTOR TO NOTIFY LANDSACPE ARCHITECT IF THERE ARE DEVIATIONS FROM THIS PLAN

0' 10' 20' 40'

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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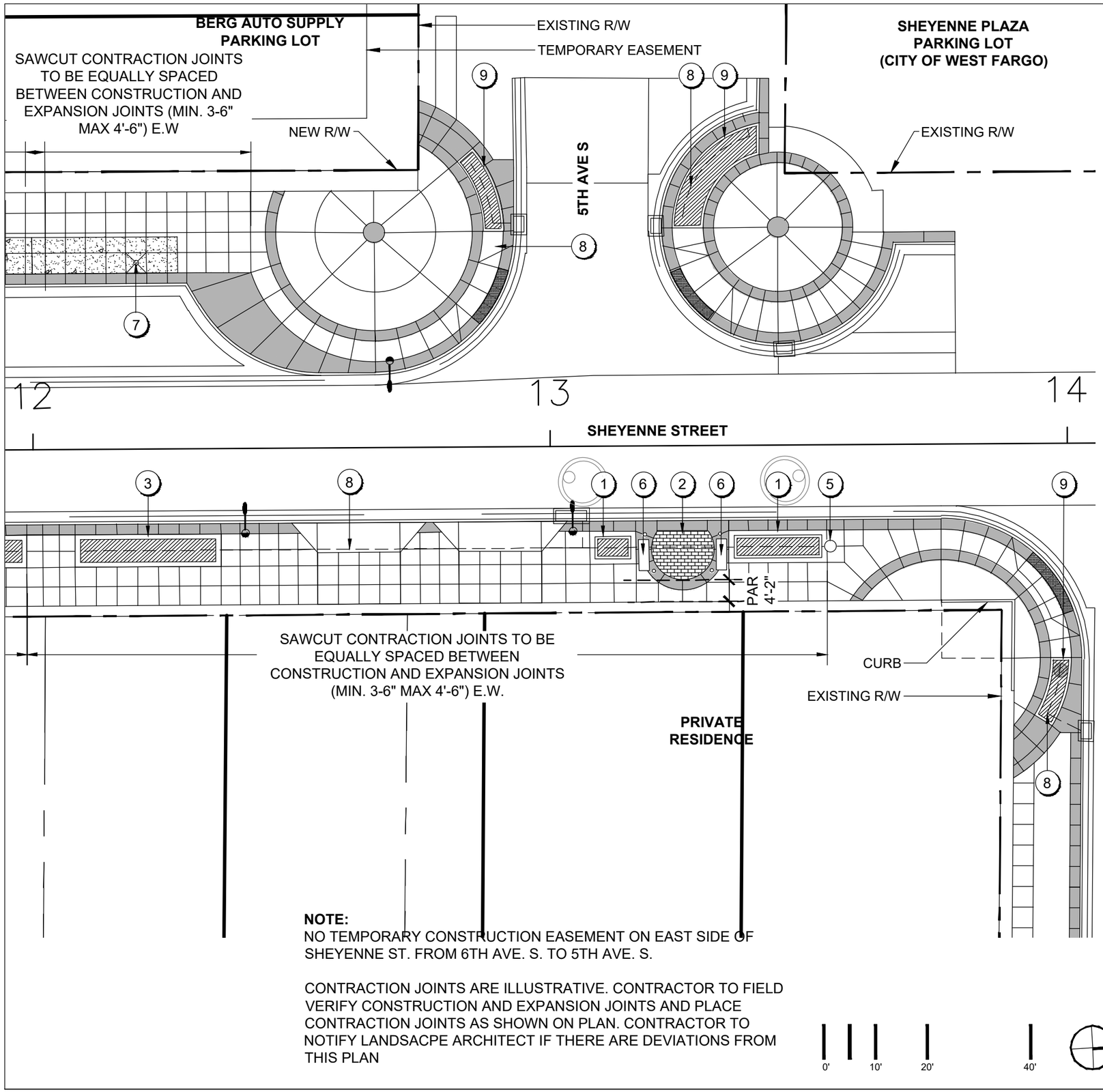
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-3
HARDSCAPE PLAN
STA 10+00 TO STA 12+00



NOTE:
NO TEMPORARY CONSTRUCTION EASEMENT ON EAST SIDE OF SHEYENNE ST. FROM 6TH AVE. S. TO 5TH AVE. S.

CONTRACTION JOINTS ARE ILLUSTRATIVE. CONTRACTOR TO FIELD VERIFY CONSTRUCTION AND EXPANSION JOINTS AND PLACE CONTRACTION JOINTS AS SHOWN ON PLAN. CONTRACTOR TO NOTIFY LANDSACPE ARCHITECT IF THERE ARE DEVIATIONS FROM THIS PLAN

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	3

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	207 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	66 LF
748	500	CURB HEADER TYPE-I	123 LF
930	9543	RETAINING WALL	92 SF
970	600	CAST IRON TREE GRATE	
		12+20.1' - 36.0' LT	1 EA
970	4	LANDSCAPE INTERLOCKING BLOCK	96 SF
970	60	PLANTING SOIL	39 CY
970	50	STRUCTURAL SOIL	22 CY
970	300	BENCH	
		STA 13+17.9' - 21.2' RT	1 EA
		STA 13+32.9' - 21.2' RT	1 EA
970	320	TRASH RECEPTACLE	
		STA 13+54.0' - 19.7' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

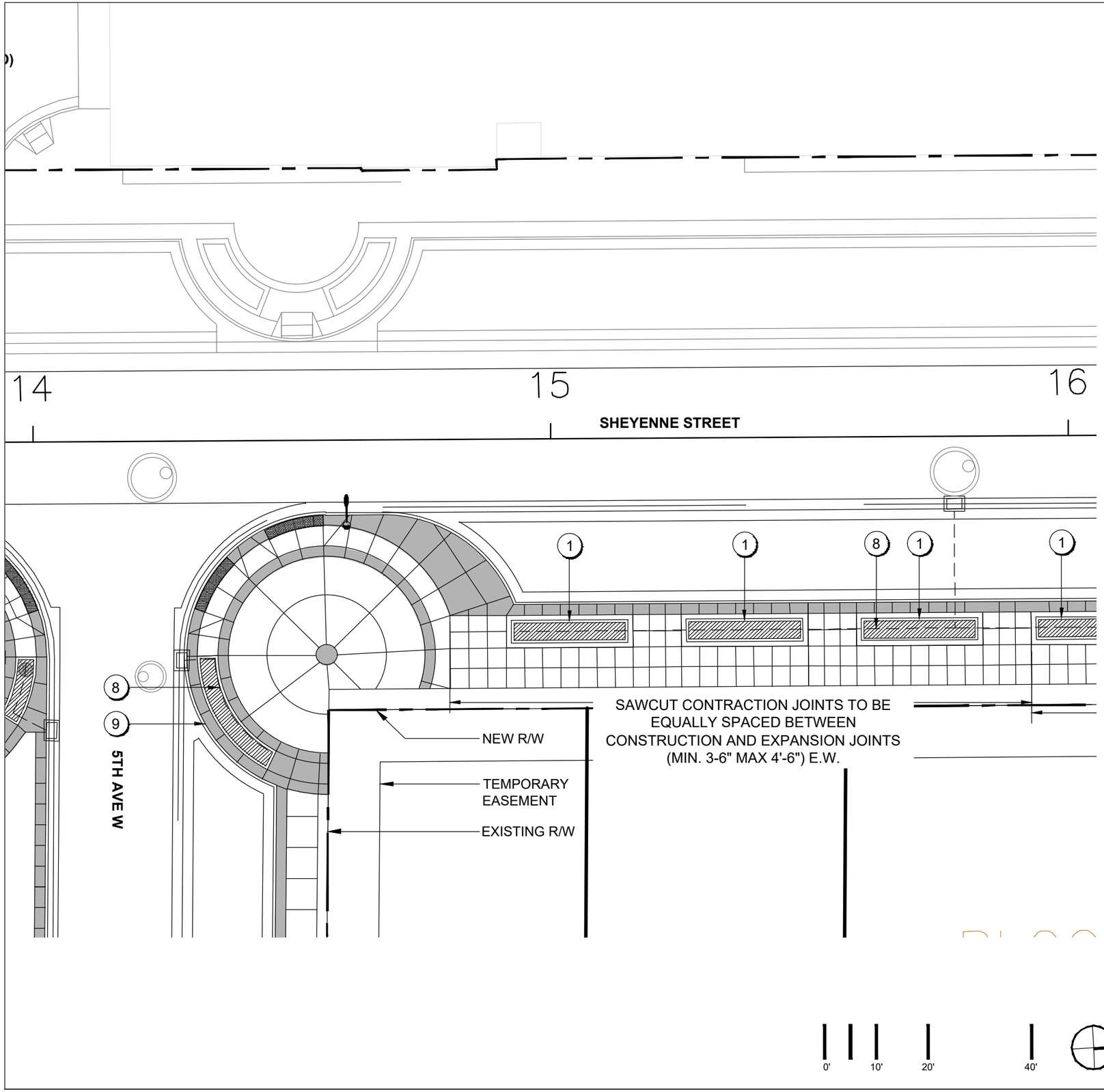
CONFLUENCE

LS-4
HARDSCAPE PLAN
STA 12+00 TO STA 14+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	4

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	156 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	180 LF
748	500	CURB HEADER TYPE-I	54 LF
970	60	PLANTING SOIL	34 CY



KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
CONTRACTION JOINTS ARE ILLUSTRATIVE. CONTRACTOR TO FIELD VERIFY CONSTRUCTION AND EXPANSION JOINTS AND PLACE CONTRACTION JOINTS AS SHOWN ON PLAN. CONTRACTOR TO NOTIFY LANDSACPE ARCHITECT IF THERE ARE DEVIATIONS FROM THIS PLAN

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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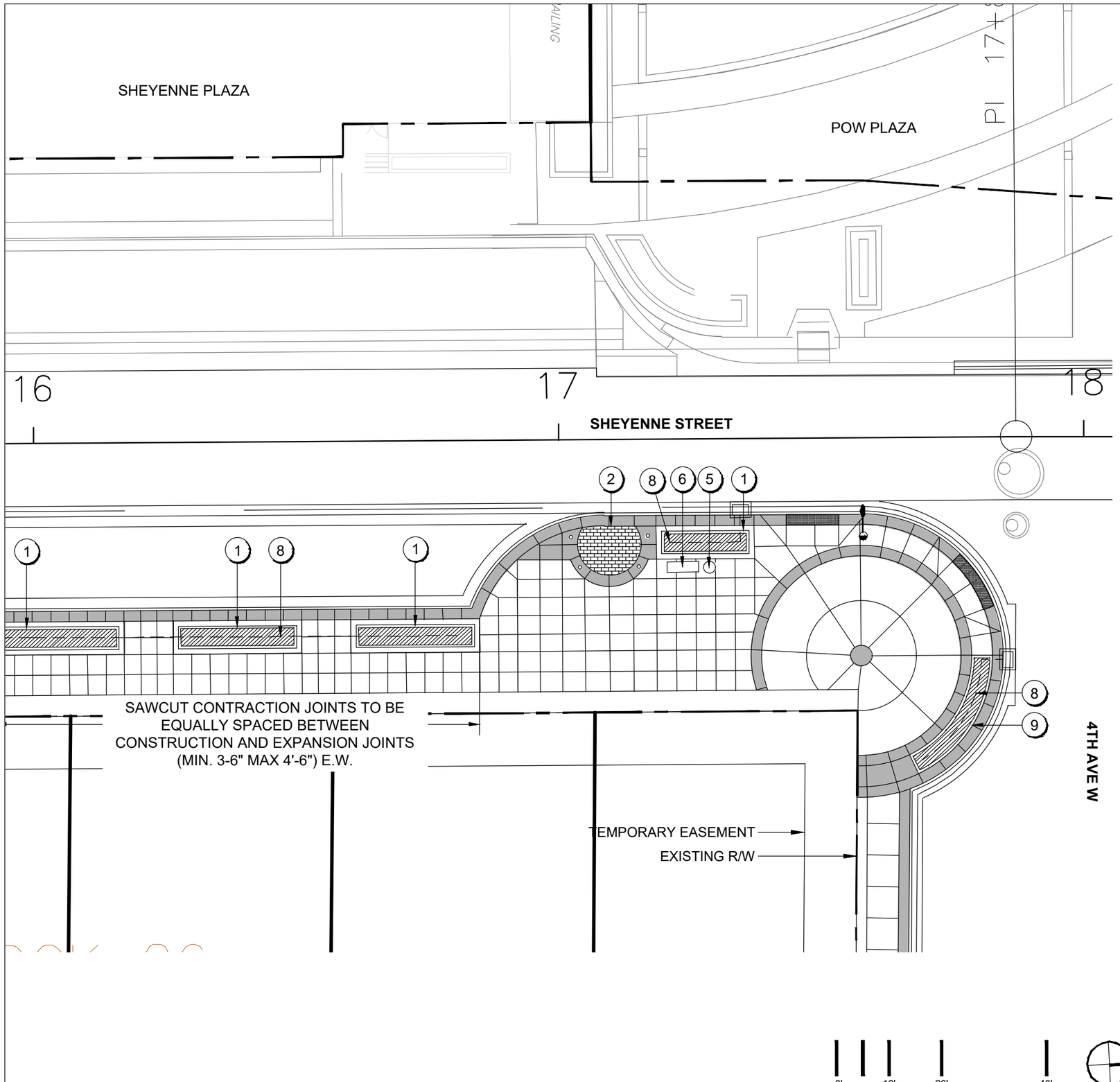
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-5
HARDSCAPE PLAN
STA 14+00 TO STA 16+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	5

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	129 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	187 LF
748	500	CURB HEADER TYPE-I	56 LF
970	4	LANDSCAPE INTERLOCKING BLOCK	96 SF
970	60	PLANTING SOIL	36 CY
970	300	BENCH	
		STA 17+23.4' - 24.3' RT	1 EA
970	320	TRASH RECEPTACLE	
		STA 17+28.4' - 24.5' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
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GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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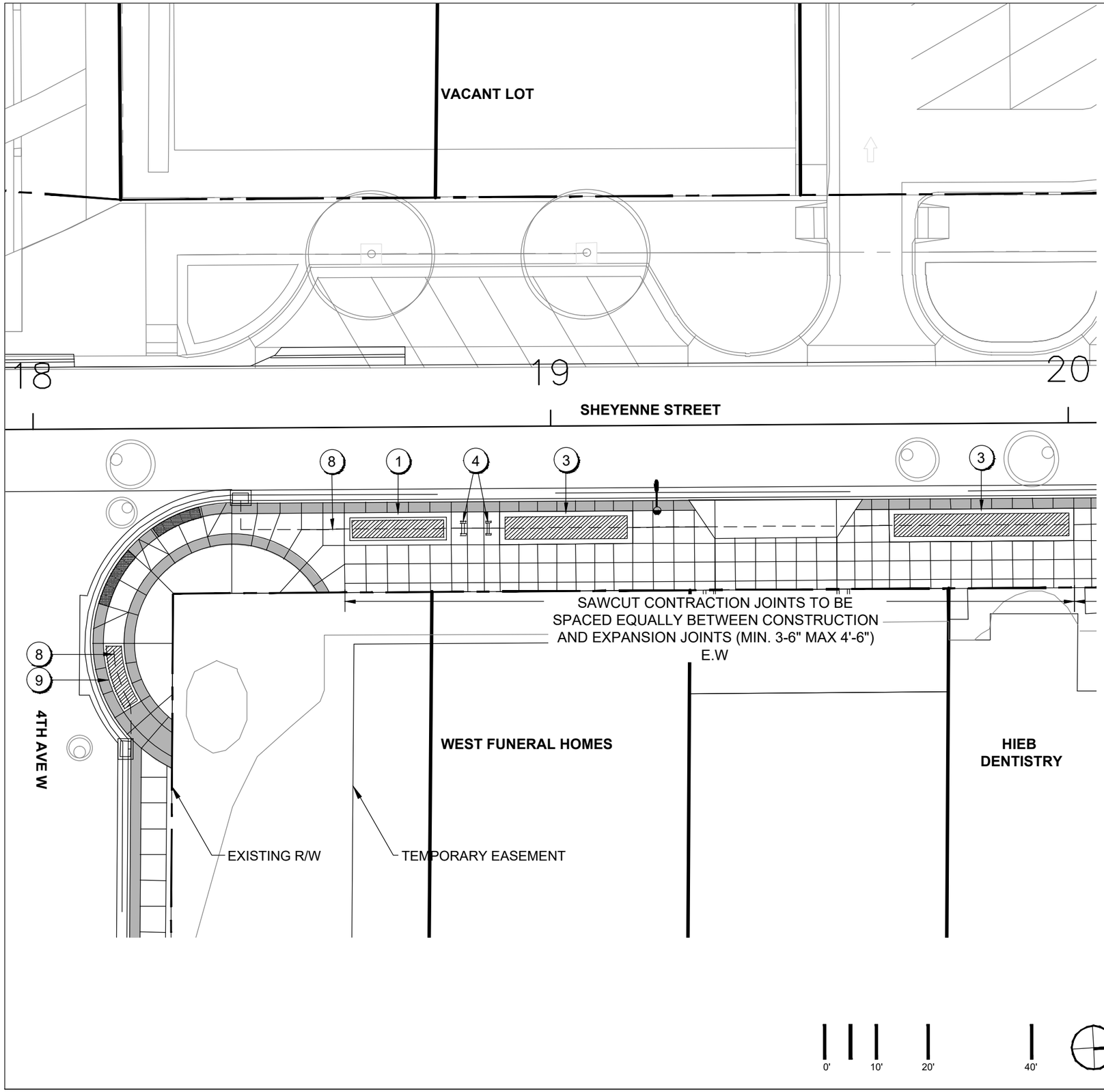
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-6
HARDSCAPE PLAN
STA 16+00 TO STA 18+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	6

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	185 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	46 LF
748	500	CURB HEADER TYPE-I	30 LF
930	9543	RETAINING WALL	198 SF
970	60	PLANTING SOIL	29 CY
970	450	BIKE RACKS	
		STA 18+82.9' - 19.7' RT	1 EA
		STA 18+87.8' - 19.7' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
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GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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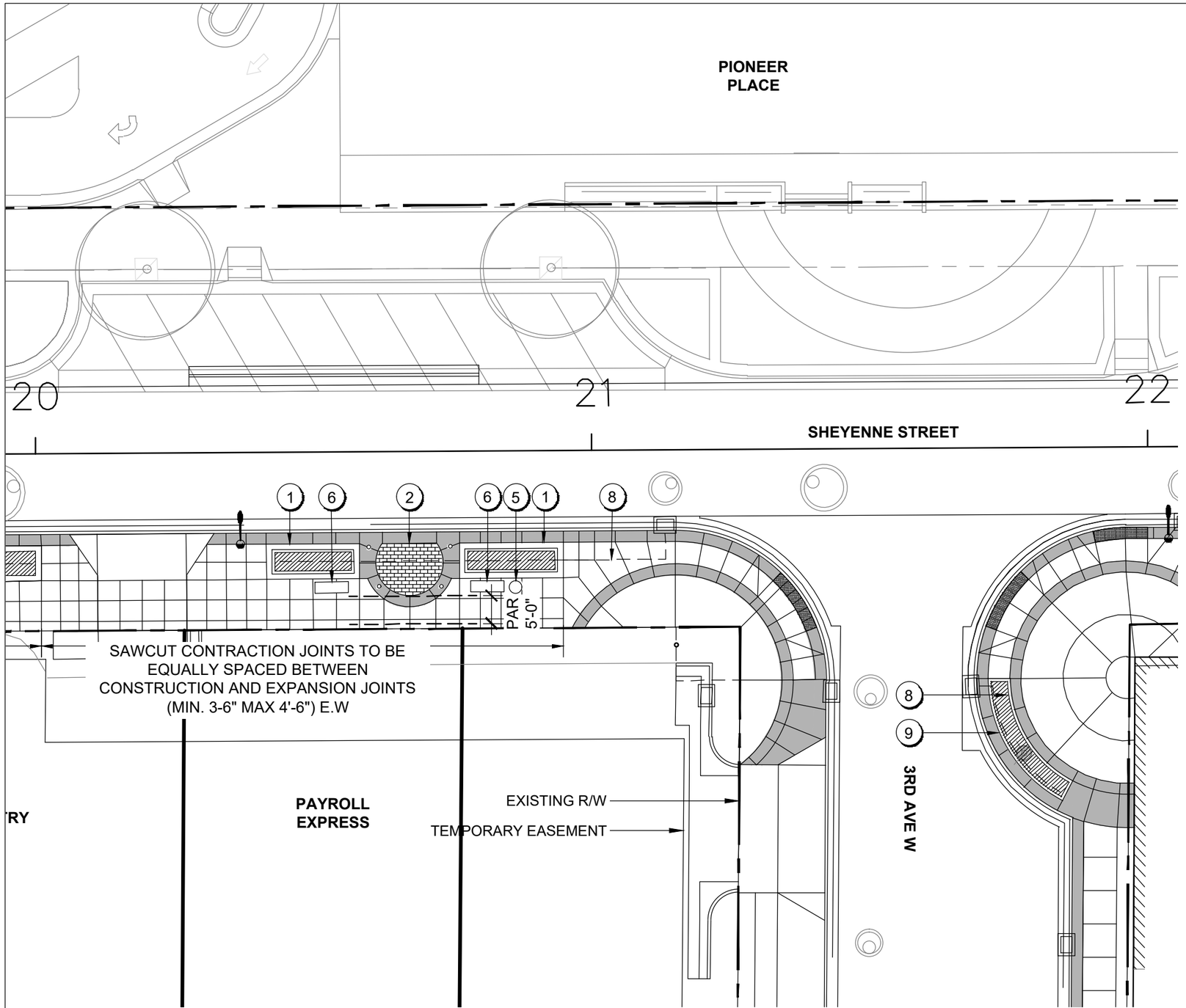
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-7
HARDSCAPE PLAN
STA 18+00 TO STA 20+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	7

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	
			96 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	
			80 LF
748	500	CURB HEADER TYPE-I	
			54 LF
970	4	LANDSCAPE INTERLOCKING BLOCK	
			96 SF
970	60	PLANTING SOIL	
			19 CY
970	300	BENCH	
		STA 20+53.1' - 24.3' RT	1
		STA 20+81.1' - 24.3' RT	1
970	320	TRASH RECEPTACLE	
		STA 20+86.1' - 24.5' RT	1

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

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GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
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- FIRE HYDRANT

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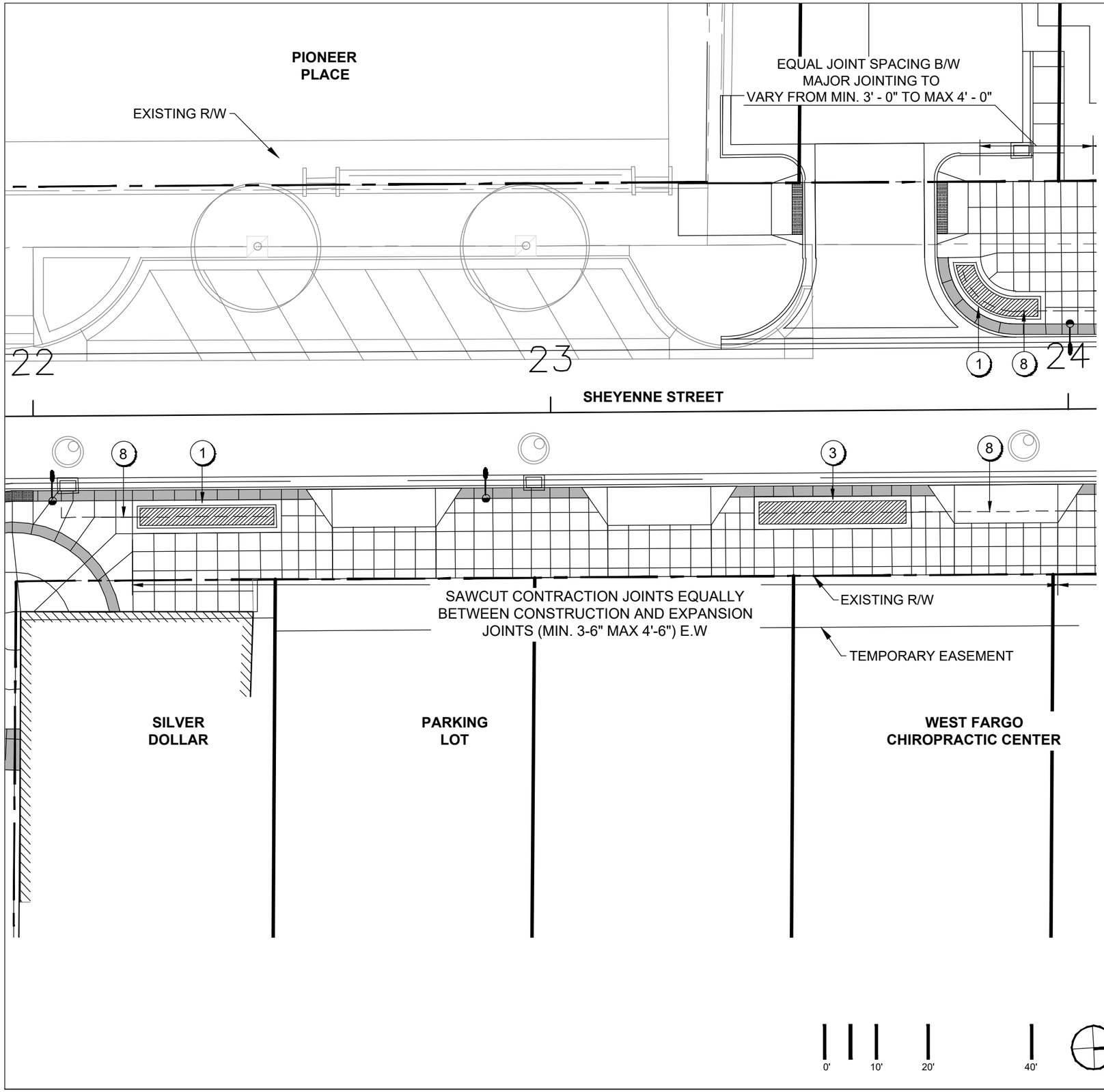
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-8
HARDSCAPE PLAN
STA 20+00 TO STA 22+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	8

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	134 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	105 LF
930	9543	RETAINING WALL	98 SF
970	60	PLANTING SOIL	25 CY

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
CONTRACTION JOINTS ARE ILLUSTRATIVE. CONTRACTOR TO FIELD VERIFY CONSTRUCTION AND EXPANSION JOINTS AND PLACE CONTRACTION JOINTS AS SHOWN ON PLAN. CONTRACTOR TO NOTIFY LANDSACPE ARCHITECT IF THERE ARE DEVIATIONS FROM THIS PLAN

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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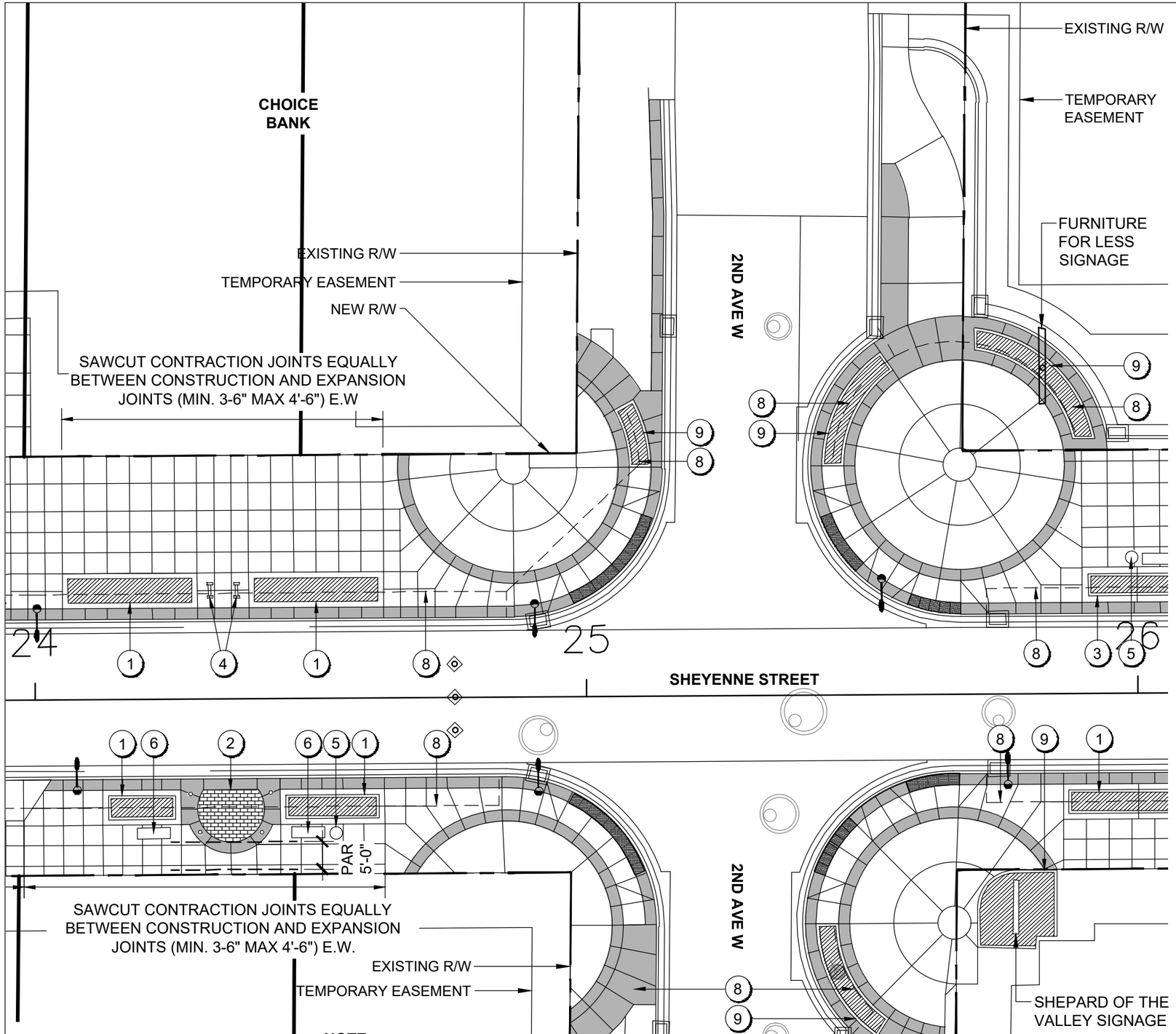
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-9
HARDSCAPE PLAN
STA 22+00 TO STA 24+00



NOTE:
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	9

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	385 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	128 LF
748	500	CURB HEADER TYPE-I	183 LF
930	9543	RETAINING WALL	162 SF
970	4	LANDSCAPE INTERLOCKING BLOCK	96 SF
970	60	PLANTING SOIL	72 CY
970	300	BENCH	
		STA 24+21.4' - 24.3' RT	1 EA
		STA 24+49.4' - 24.3' RT	1 EA
970	320	TRASH RECEPTACLE	
		STA 24+54.4' - 24.5' RT	1 EA
		STA 25+98.9' - 24.5' LT	1 EA
970	450	BIKE RACKS	
		STA 24+31.8' - 19.7' LT	1 EA
		STA 24+36.6' - 19.7' LT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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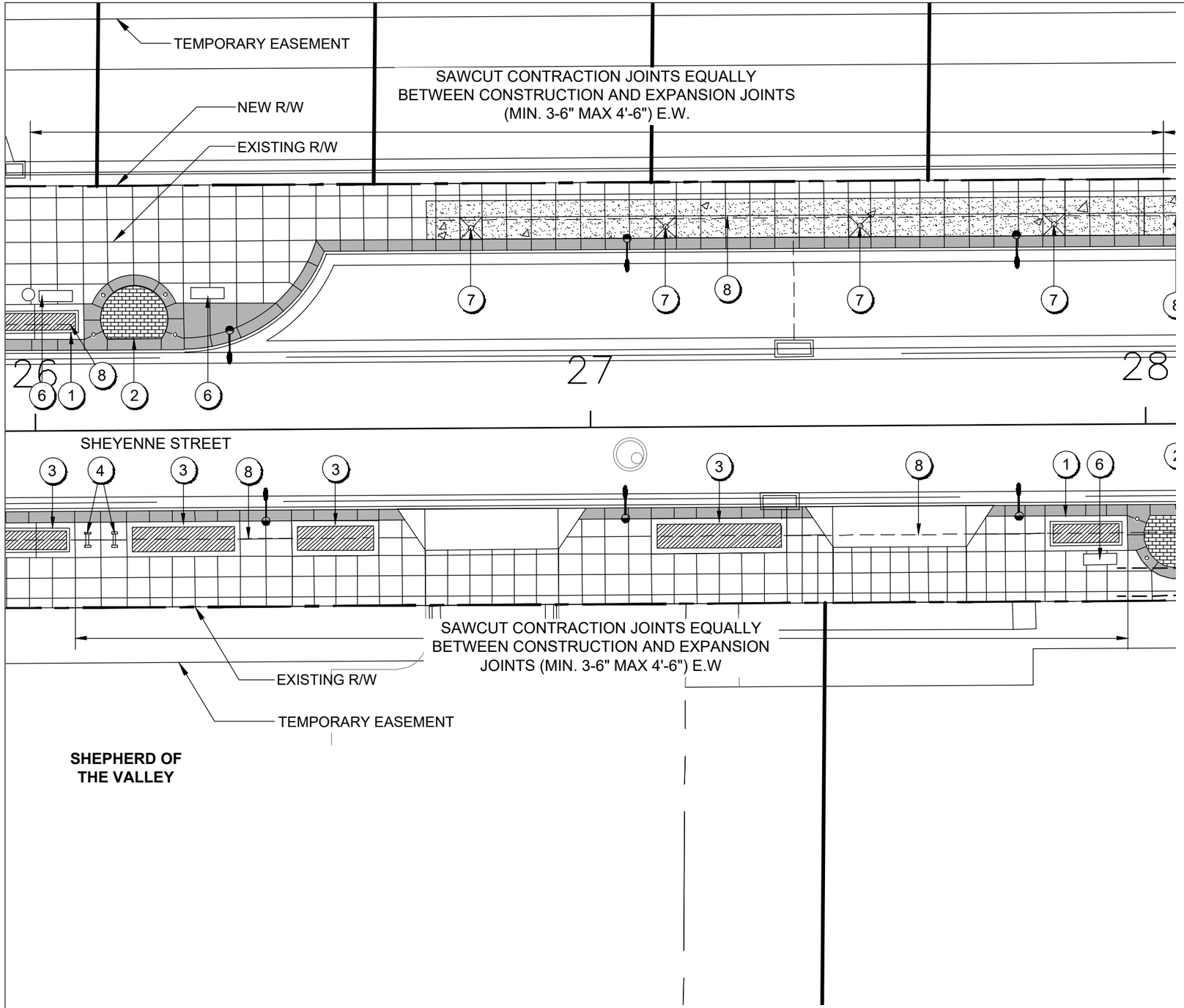
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-10
HARDSCAPE PLAN
STA 24+00 TO STA 26+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	10

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	
			308 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	
			72 LF
930	9543	RETAINING WALL	
			204 SF
970	600	CAST IRON TREE GRATE	
		STA 26+79.8' - 36.0' LT	1 EA
		STA 27+13.7' - 36.0' LT	1 EA
		STA 27+48.7' - 36.0' LT	1 EA
		STA 27+83.7' - 36.0' LT	1 EA
970	4	LANDSCAPE INTERLOCKING BLOCK	
			96 SF
970	60	PLANTING SOIL	
			26 CY
970	50	STRUCTURAL SOIL	
			100 CY
970	300	BENCH	
		STA 26+3.9' - 24.3' LT	1 EA
		STA 26+31.3' - 24.7' LT	1 EA
		STA 27+91.6' - 24.3' RT	1 EA
970	450	BIKE RACKS	
		STA 26+9.3' - 19.7' RT	1 EA
		STA 26+14.1' - 19.7' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
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0' 10' 20' 40'

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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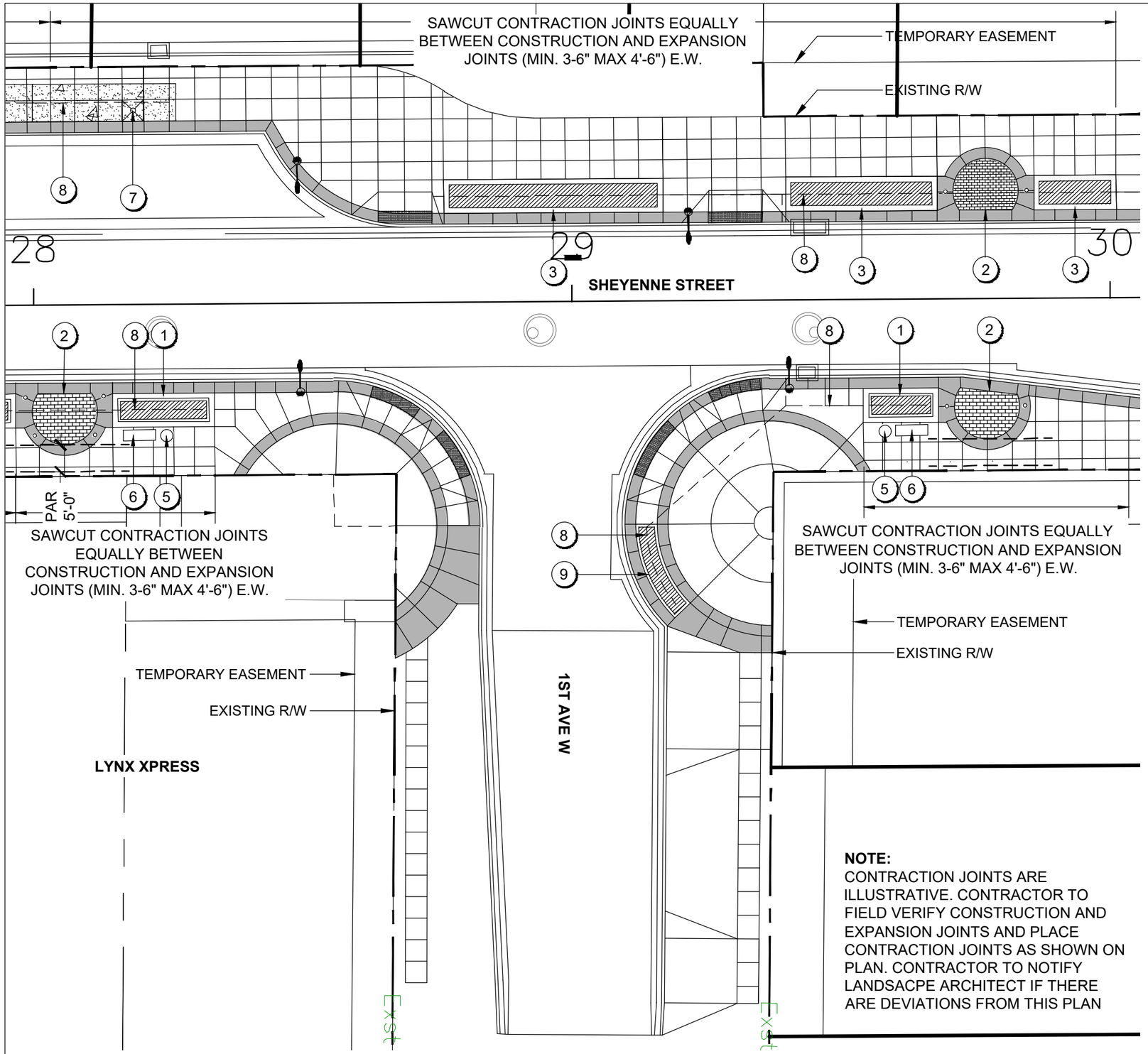
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-11
HARDSCAPE PLAN
STA 26+00 TO STA 28+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	11

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	260 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	72 LF
748	500	CURB HEADER TYPE-I	40 LF
930	9543	RETAINING WALL	273 SF
970	600	CAST IRON TREE GRATE	
		STA 28+18.7' - 36.0' LT	1 EA
970	4	LANDSCAPE INTERLOCKING BLOCK	282 SF
970	60	PLANTING SOIL	40 CY
970	50	STRUCTURAL SOIL	21 CY
970	300	BENCH	
		STA 28+19.6' - 24.3' RT	1 EA
		STA 29+63.0' - 24.3' RT	1 EA
970	320	TRASH RECEPTACLE	
		STA 28+24.6' - 24.5' RT	1 EA
		STA 29+59.0' - 24.5' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
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GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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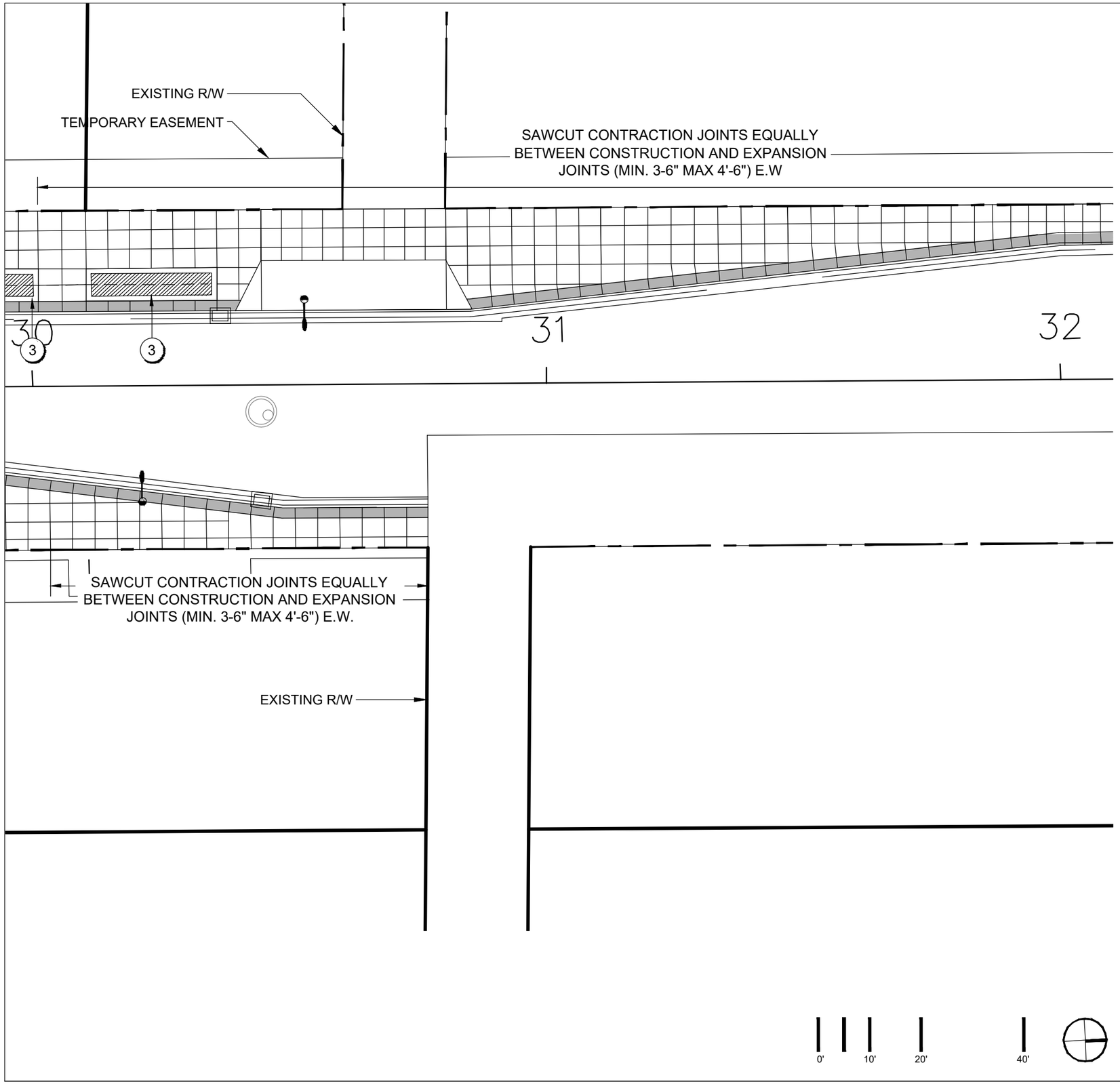
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-12
HARDSCAPE PLAN
STA 28+00 TO STA 30+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	12

QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	34 LF
930	9543	RETAINING WALL	84 SF
970	60	PLANTING SOIL	8 CY

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
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GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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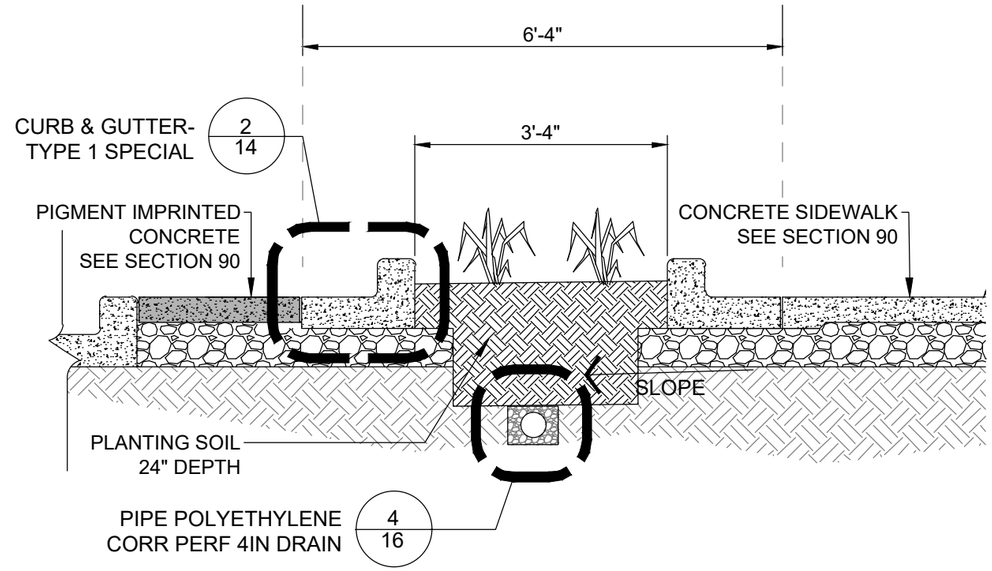
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-13
HARDSCAPE PLAN
STA 30+00 TO END

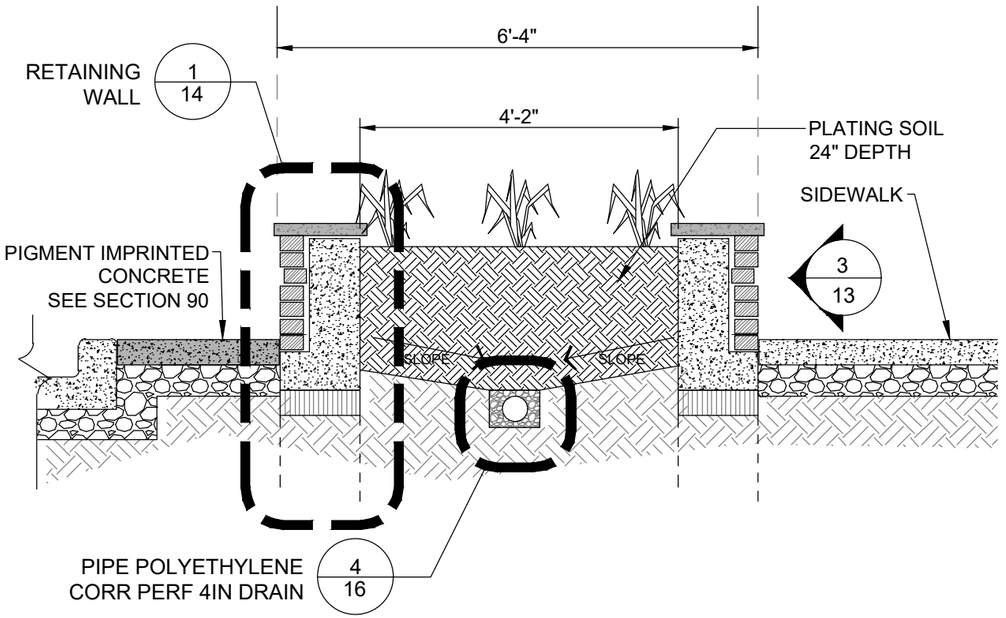
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	13



1
13

RAISED PLANTER SECTION

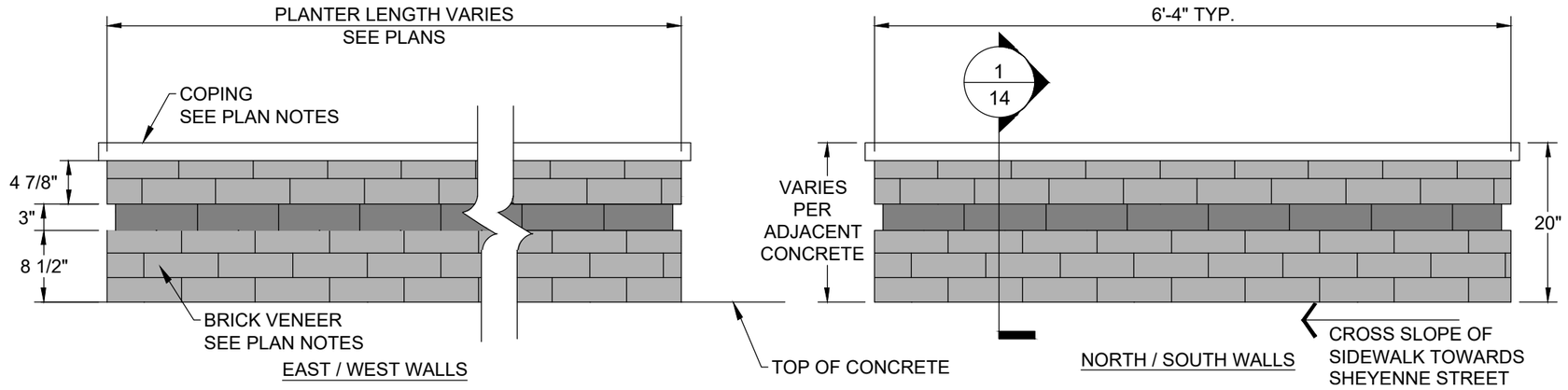
N.T.S



2
13

PLANTER WALL SECTION

N.T.S



3
13

PLANTER SEAT WALL ELEVATIONS

3/4" = 1'-0"

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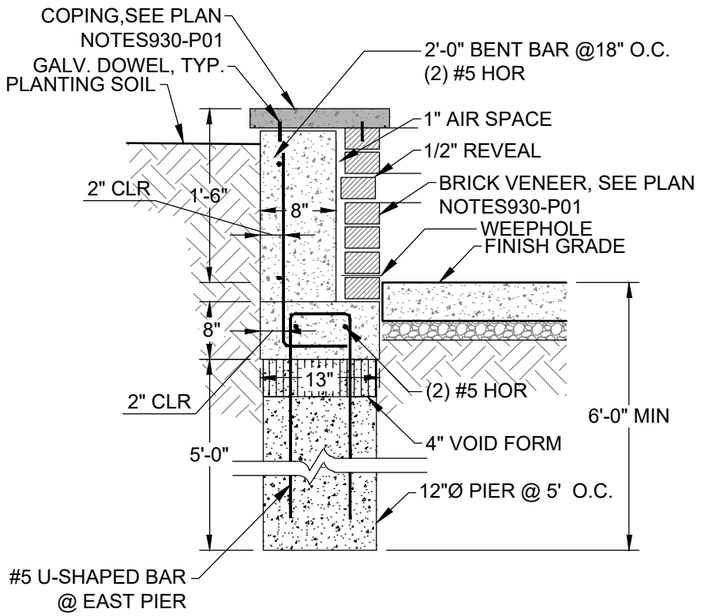
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

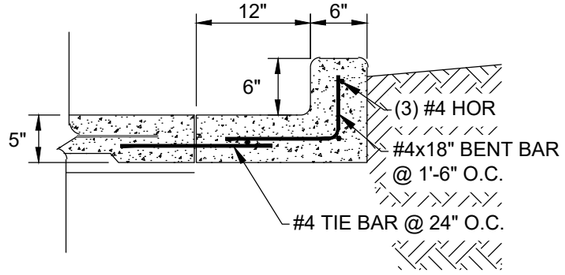
CONFLUENCE

LS-14
HARDSCAPE DETAILS
SHEYENNE STREET

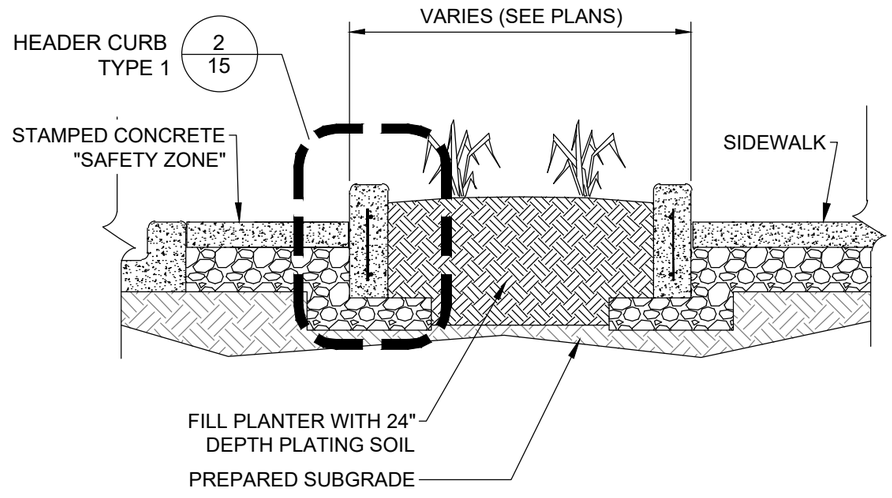
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	14



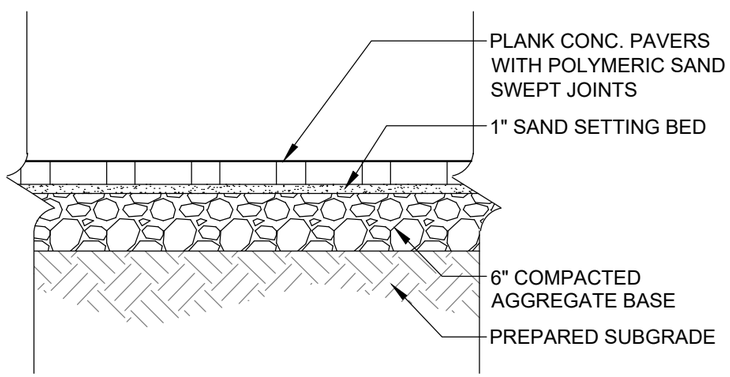
1 14 RETAINING WALL N.T.S



2 14 CURB & GUTTER-TYPE 1 SP N.T.S



3 14 CURB PLANTER N.T.S



UNIT		SIZE
A		5 3/4"x9 11/16"
B		5 3/4"x11 5/8"
C		5 3/4"x13 5/8"
D		5 3/4"x17 1/2"
E		5 3/4x19 1/2"

*PAVER THICKNESS TO BE 3 1/8" MIN.

4 14 LANDSCAPE INTERLOCKING BLOCK N.T.S

COLOR	PROPRIETARY COLOR	PERCENT OF MIX
LIGHT GREAY	DREAM	40%
CHARCOAL	REFLECTION	40%
CREAM	VISION	20%

NOTES:
1. PLANK CONCRETE PAVERS TO HAVE MIXED LENGTHS AND COLORS AS SHOWN
2. MANUFACTURER BASIS OF DESIGN: COUNTY MATERIALS, INFLUENCE PLANK PAVER. SEE PLAN NOTES 930-P05 FOR APPROVED EQUALS.
3. PAVER LAYOUT TO BE RANDOM IN RUNNING BOND.
4. PAVER SEAMS SHALL NOT MATCH OR BE LOCATED WITHIN 2" OF ADACENT RUN SEAM

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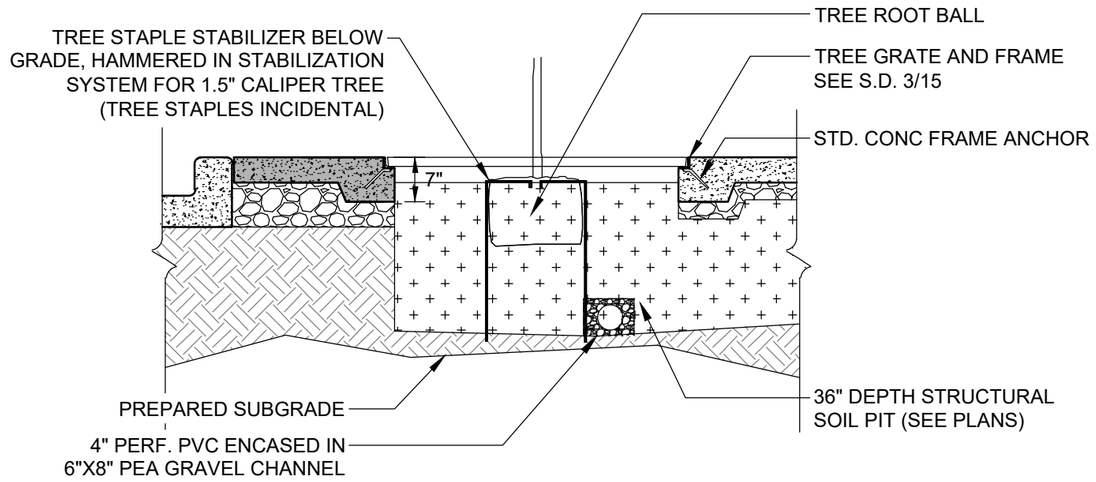
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

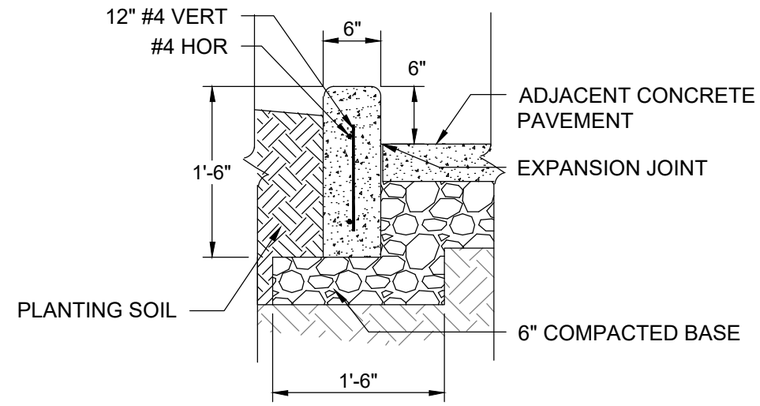
CONFLUENCE

LS-15
HARDSCAPE DETAILS
SHEYENNE STREET

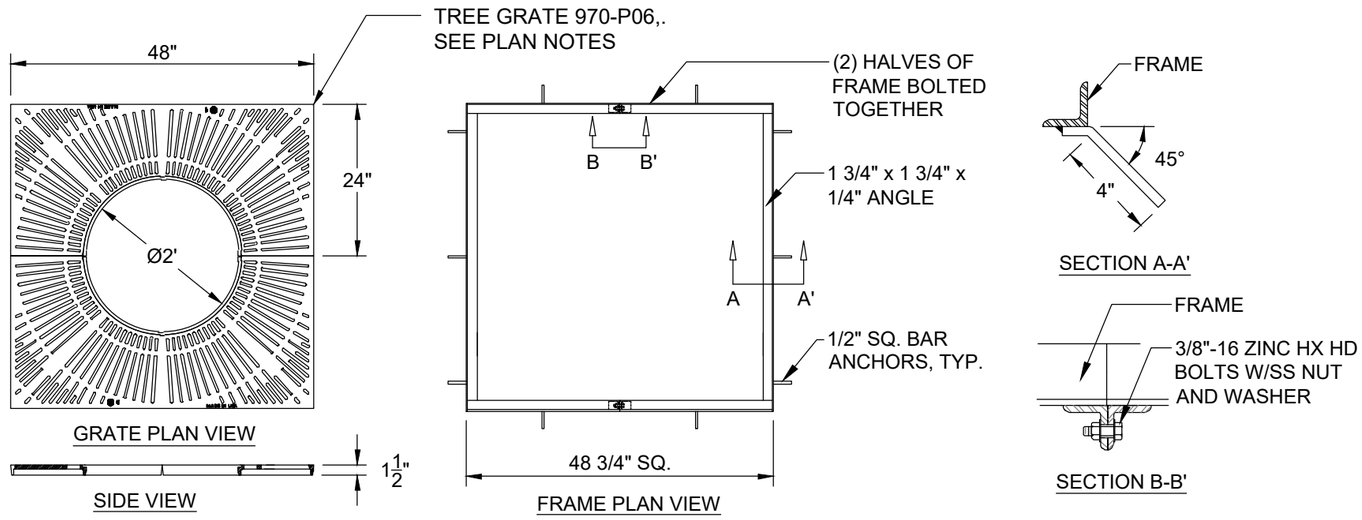
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	15



1 15 **TREE GRATE / STRUCTURAL SOIL PIT** N.T.S



2 15 **CURB HEADER-TYPE 1** N.T.S



3 15 **CAST IRON TREE GRATE** N.T.S

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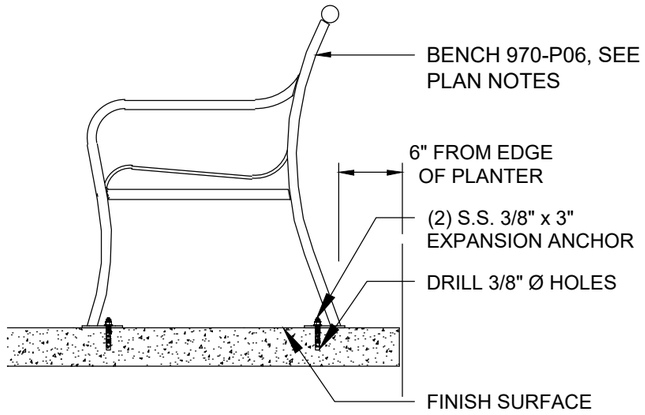
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

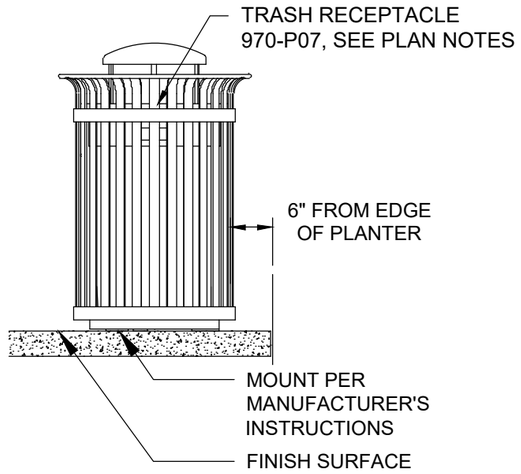
LS-16
HARDSCAPE DETAILS
SHEYENNE STREET

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	16

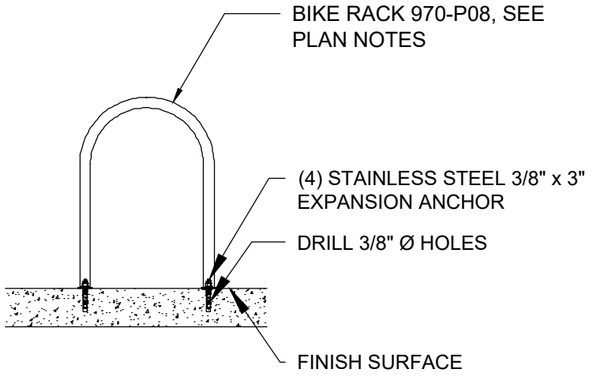


NOTE: USE STAINLES STEEL WASHERS TO LEVEL BENCH, IF NECESSARY

1 16 **BENCH** N.T.S

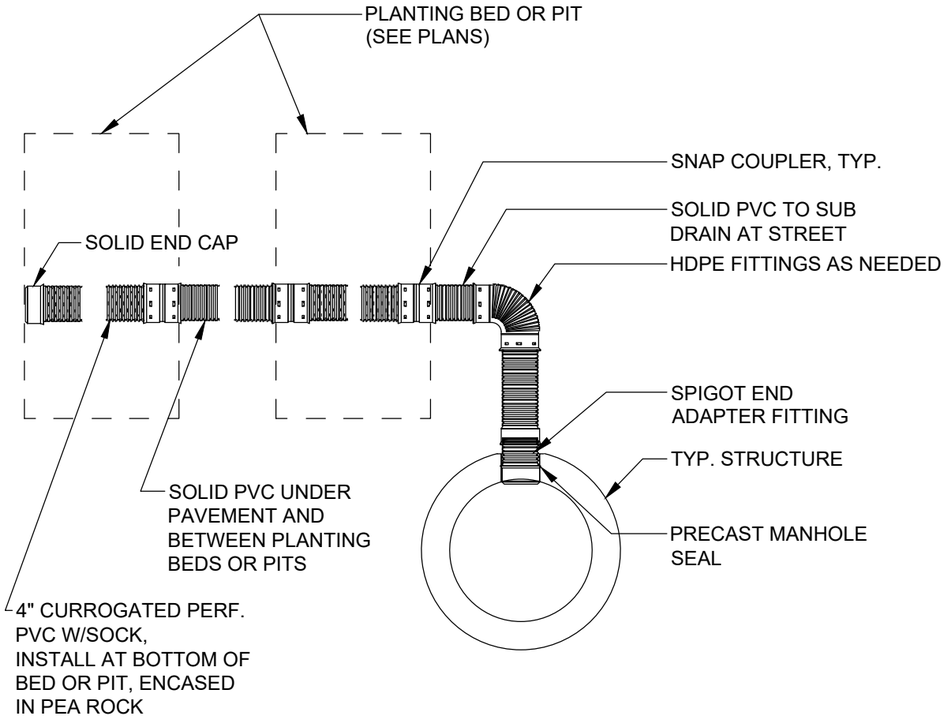


2 16 **TRASH RECEPTACLE** N.T.S



NOTE: USE STAINLES STEEL WASHERS TO LEVEL RACK, IF NECESSARY

3 16 **BIKE RACK** N.T.S



4 16 **PIPE PE CORR PERF 4IN DRAIN** N.T.S

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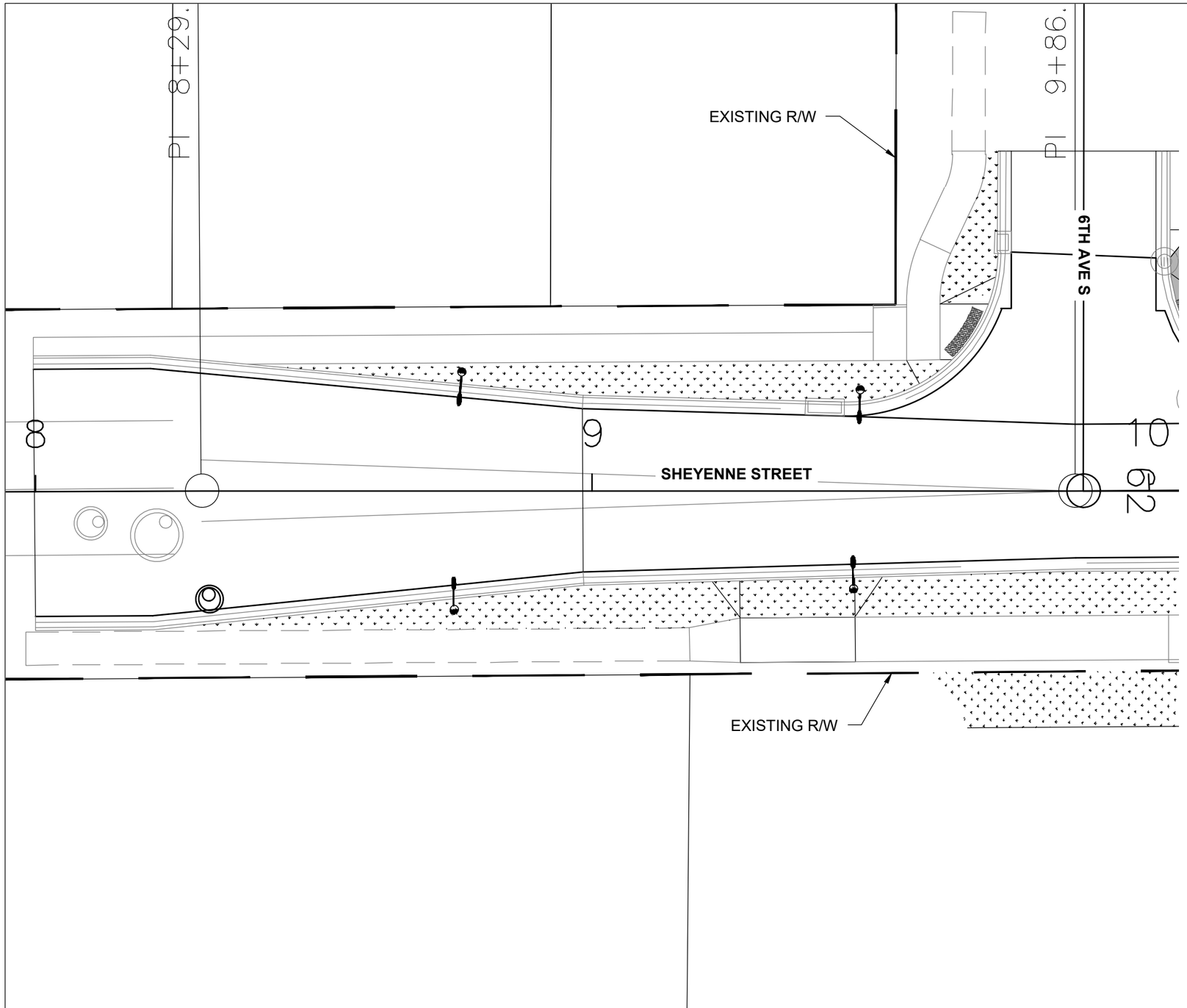
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-17
HARDSCAPE DETAILS
SHEYENNE STREET

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	17



GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

NOTE: NO TEMPORARY CONSTRUCTION EASEMENT ON WEST SIDE OF SHEYENNE ST. FROM 7TH AVE. S. TO 6TH AVE. S.

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-2
LANDSCAPE PLAN
STA 8+00 TO STA 10+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	18

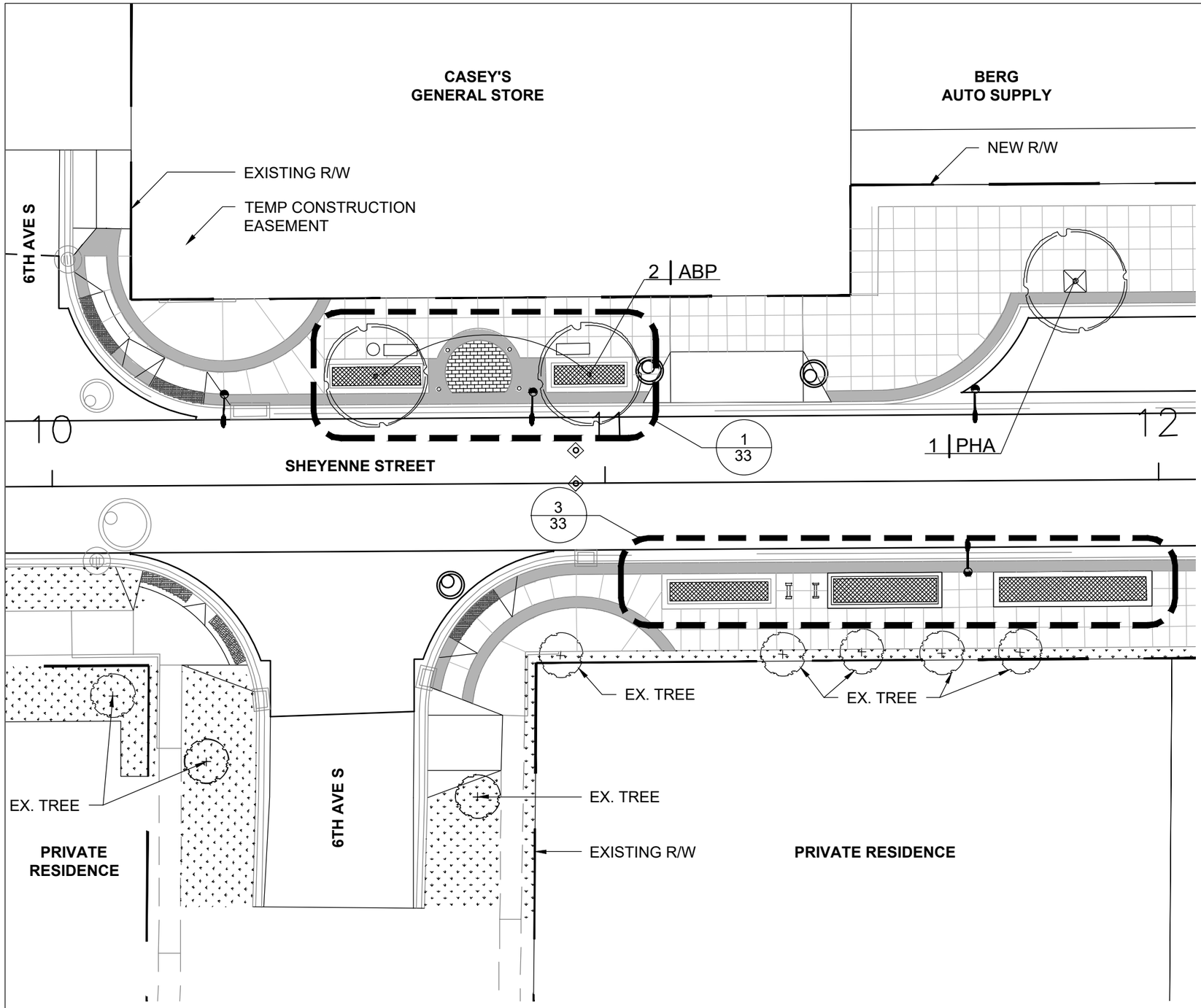
QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			3 CY
970	1000	Trees	
		STA 10+59.6' - 19.7' LT	1 EA
		STA 10+97.2' - 19.7' LT	1 EA
		STA 11+85.1' - 36.0' LT	1 EA

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77



NOTES:
NO TEMPORARY CONSTRUCTION EASEMENT ON EAST SIDE OF SHEYENNE ST. FROM 6TH AVE. S. TO 5TH AVE. S.

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-3
LANDSCAPE PLAN
STA 10+00 TO STA 12+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	19

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			5 CY
970	1000	Trees	
		STA 12+20.1' - 36.0' LT	1 EA
		STA 13+12.2' - 19.7' RT	1 EA
		STA 13+43.6' - 19.7' RT	1 EA

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

BERG AUTO SUPPLY PARKING LOT

TEMPORARY CONST. EASEMENT

NEW R/W

1 | ELM

5TH AVE S

SHEYENNE PLAZA PARKING LOT

EXISTING R/W

2/34

2/33

12

13

14

SHEYENNE STREET

4/33

5/33

EXISTING R/W

2 | SNC

6/33

PRIVATE RESIDENCE

EX. TREE

NOTE: NO TEMPORARY CONSTRUCTION EASEMENT ON WEST SIDE OF SHEYENNE ST. FROM 7TH AVE. S. TO 1OTH AVE. S.

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-4
LANDSCAPE PLAN
STA 12+00 TO STA 14+00

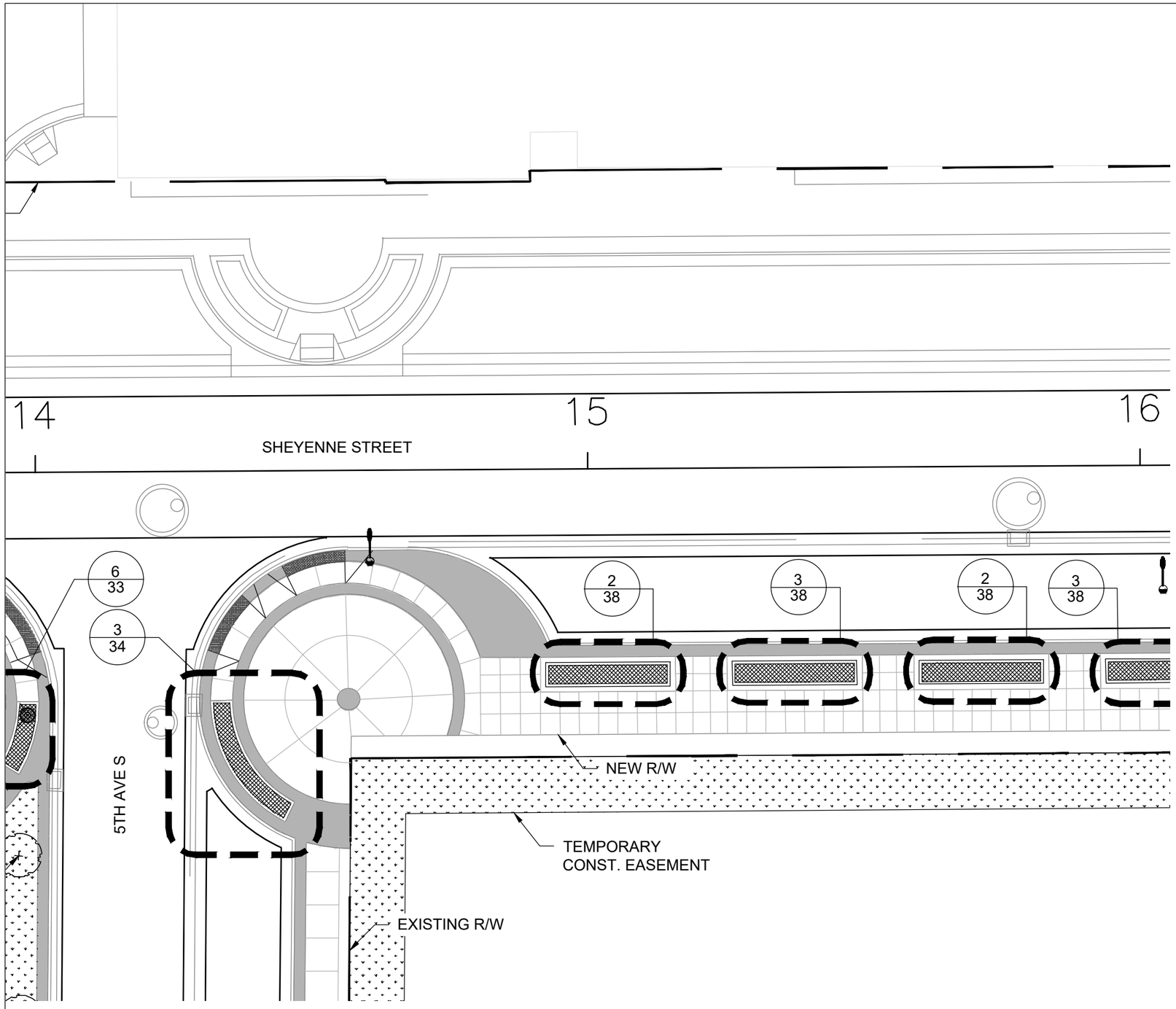
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	20

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	4 CY

GROUNDCOVER LEGEND

- DOUBLE-SHREDDED HARDWOOD MULCH
- HYDROSEED TURF, SEE SECTIONS 76 & 77



0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

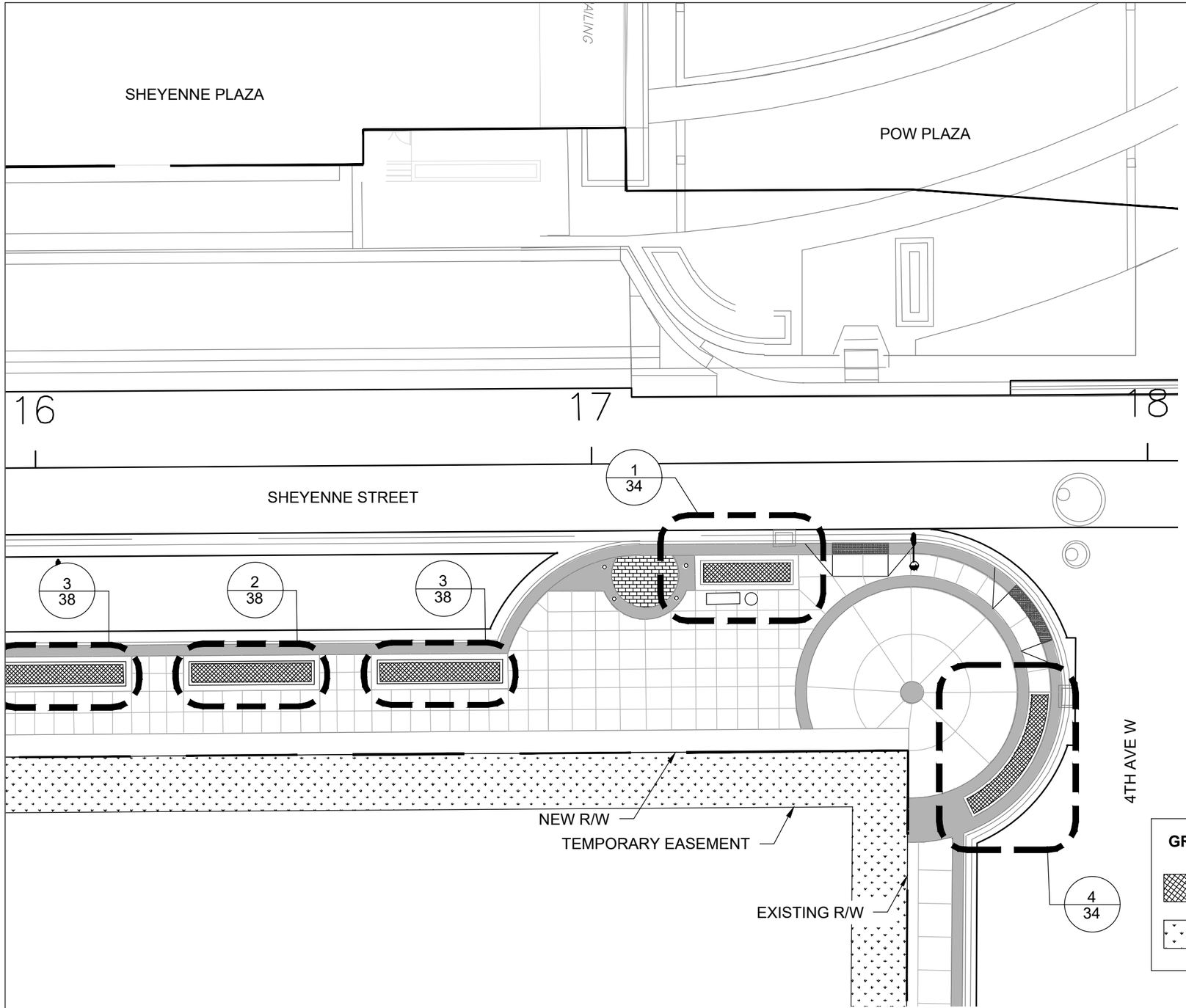
CONFLUENCE

LP-5
LANDSCAPE PLAN
STA 14+00 TO STA 16+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	21

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	4 CY



GROUNDCOVER LEGEND

- DOUBLE-SHREDDED HARDWOOD MULCH
- HYDROSEED TURF, SEE SECTIONS 76 & 77

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-6
LANDSCAPE PLAN
STA 16+00 to STA 18+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	22

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	4 CY

GROUNDCOVER LEGEND

- DOUBLE-SHREDDED HARDWOOD MULCH
- HYDROSEED TURF, SEE SECTIONS 76 & 77

VACANT LOT

18 19 20

SHEYENNE STREET

6/34

7/34

EX. TREE

EX. TREE

EX. RETAINING WALL

EXISTING PARKING LOT CURB AND GUTTER

EXISTING PLANTER

5/34

4TH AVE W

WEST FUNERAL HOMES

HIEB DENTISTRY

EX. TREE

EXISTING R/W

TEMPORARY CONSTRUCTION EASMENT

4TH AVI

0' 10' 20' 40'

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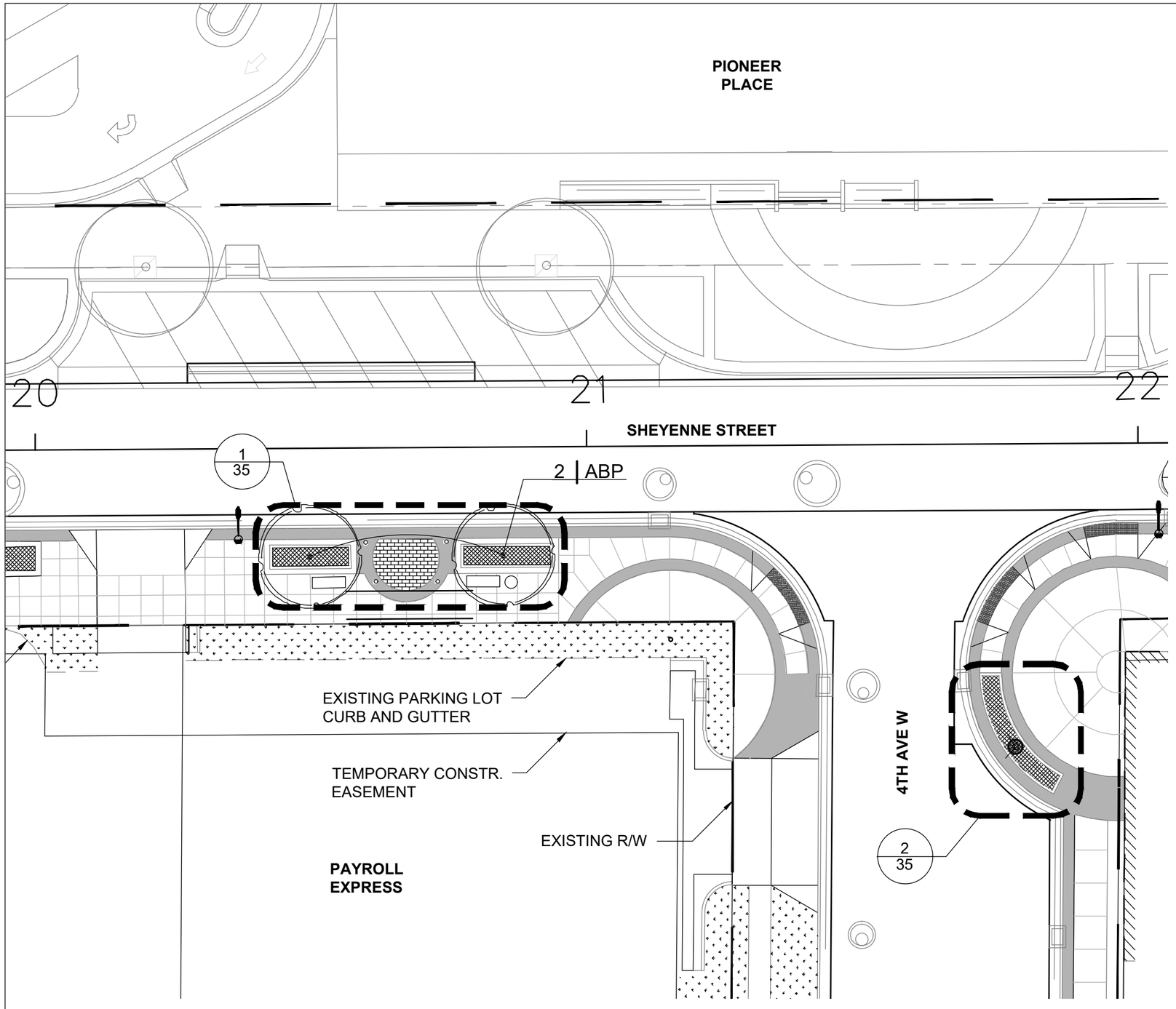
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-7
LANDSCAPE PLAN
STA 18+00 TO STA 20+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	23

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			1 CY
970	1000	Trees	
		STA 20+49.7' - 19.7' RT	1 EA
		STA 20+84.7' - 19.7' RT	1 EA

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-8
LANDSCAPE PLAN
STA 20+00 TO STA 22+00

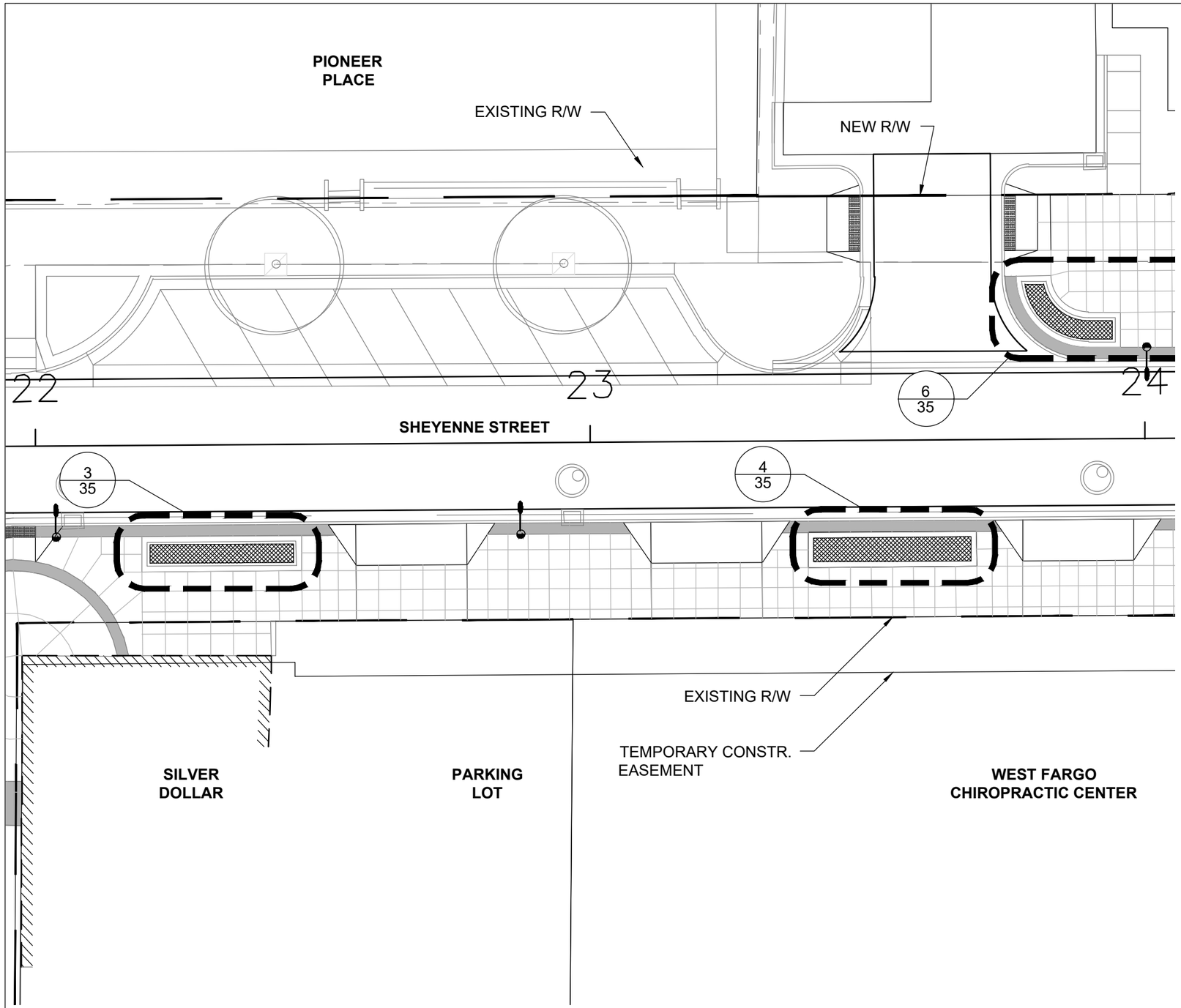
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	24

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	CY
		TOTAL	3

GROUNDCOVER LEGEND

- DOUBLE-SHREDDED HARDWOOD MULCH
- HYDROSEED TURF, SEE SECTIONS 76 & 77



0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-9
LANDSCAPE PLAN
STA 22+00 TO STA 24+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	25

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			9 CY
970	1000	Trees	
		STA 24+19.0' - 19.7' RT	1 EA
		STA 24+53.2' - 19.7' RT	1 EA

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

CHOICE BANK

TEMPORARY CONSTR. EASMENT

EXISTING R/W

2ND AVE S

FURNITURE FOR LESS PARKING LOT

NEW R/W

SHEYENNE STREET

WEST FARGO CHIROPRACTIC CENTER

EXISTING R/W

TEMPORARY CONSTR. EASMENT

2ND AVE S

SHEPHERD OF THE VALLEY

24

25

26

0' 10' 20' 40'

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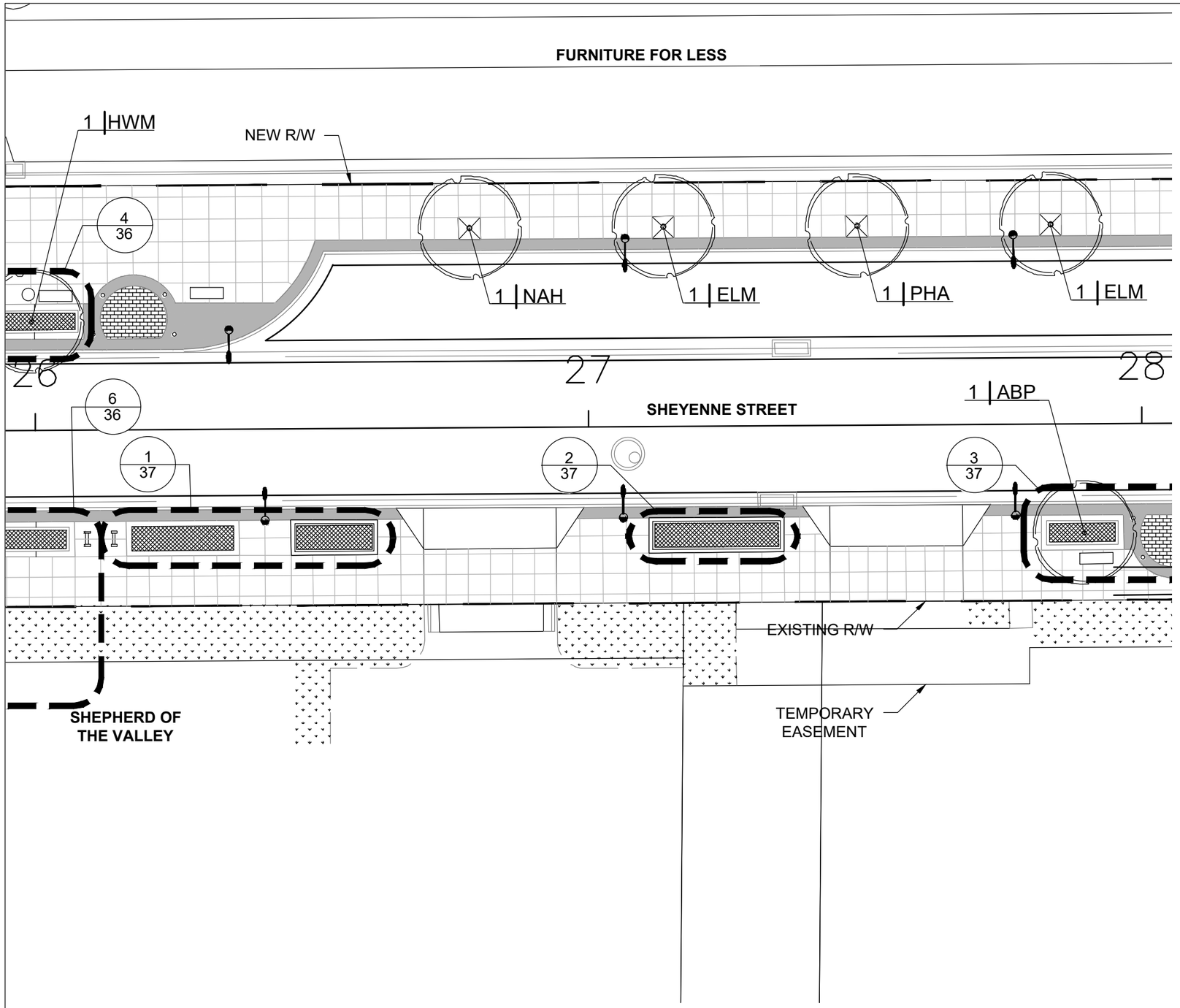
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-10
LANDSCAPE PLAN
STA 24+00 TO STA 26+00



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	26

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			4 CY
970	1000	Trees	
		STA 26+0.0' - 18.9' LT	1 EA
		STA 26+40.2' - 24.1' LT	1 EA
		STA 26+78.7' - 36.0' LT	1 EA
		STA 27+13.7' - 36.0' LT	1 EA
		STA 27+48.7' - 36.0' LT	1 EA
		STA 27+83.7' - 36.0' LT	1 EA
		STA 27+89.5' - 19.7' RT	1 EA

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-11
LANDSCAPE PLAN
STA 26+00 TO STA 28+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	27

QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			5 CY
970	1000	Trees	
		STA 28+18.7' - 36.0' LT	1 EA
		STA 28+24.1' - 19.7' RT	1 EA
		STA 29+56.0' - 19.7' LT	1 EA
		STA 29+93.5' - 19.7' LT	1 EA

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

EX. TREE

1 | NAH

28

29

30

2 / 37

1 / 38

2 | ABP

SHEYENNE STREET

3 / 37

1 | ABP

5 / 37

4 / 37

EXISTING R/W

TEMPORARY EASEMENT

1ST AVE W

TEMPORARY EASEMENT

LYNX XPRESS

EXISTING R/W

0' 10' 20' 40'

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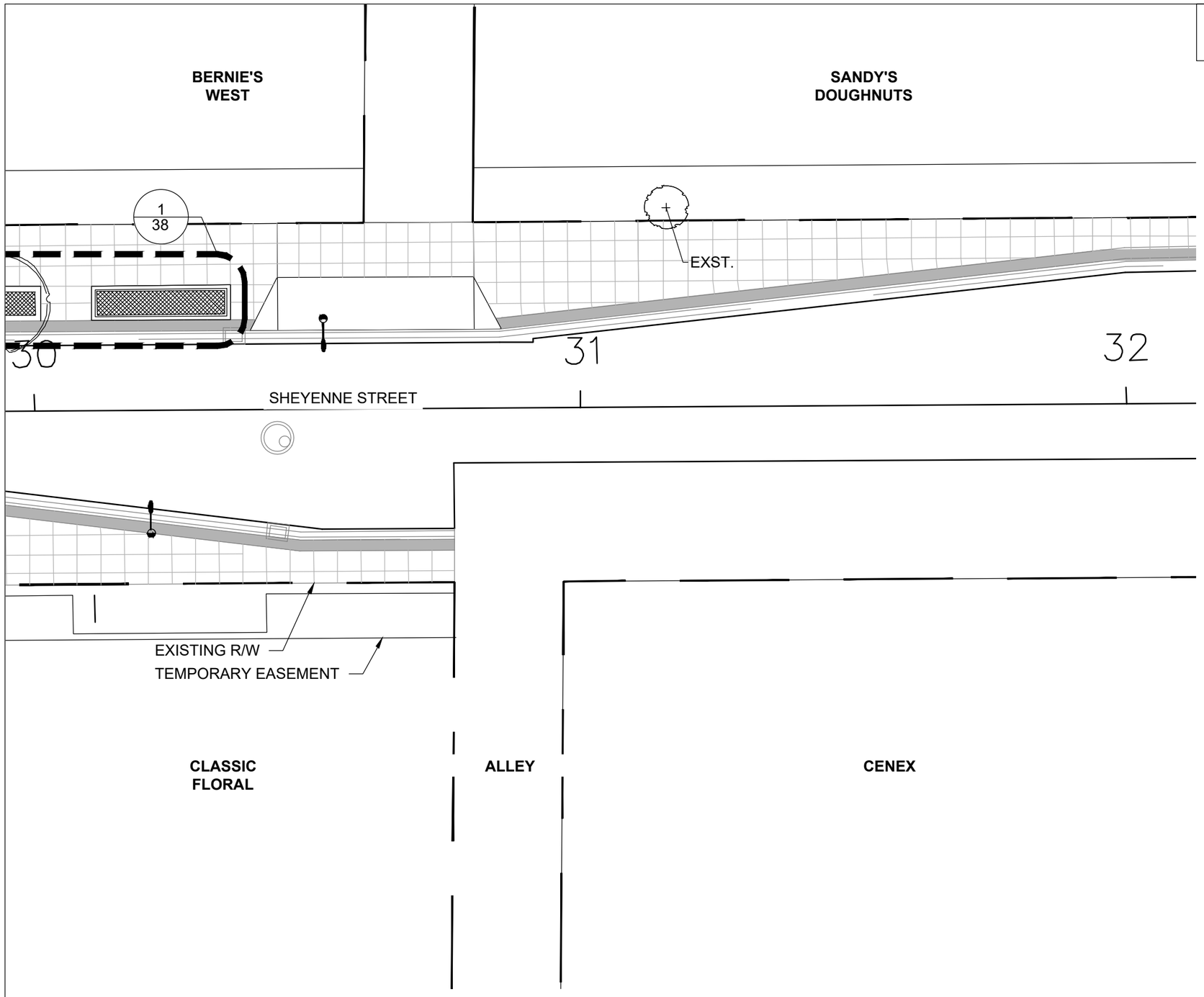
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-12
LANDSCAPE PLAN
STA 28+00 TO STA 30+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	28



QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	1 CY

GROUNDCOVER LEGEND

- DOUBLE-SHREDDED HARDWOOD MULCH
- HYDROSEED TURF, SEE SECTIONS 76 & 77

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-13
LANDSCAPE PLAN
STA 30+00 TO END

SHEPHERD
THE VALL

TEMPORARY CONSTR.
EASEMENT

EXISTING R/W

2ND AVE S

2
36

EXISTING R/W

TEMPORARY CONSTR.
EASEMENT

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	29

GROUNDCOVER LEGEND

DOUBLE-SHREDDED HARDWOOD MULCH

HYDROSEED TURF, SEE SECTIONS 76 & 77

0' 10' 20' 40'

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

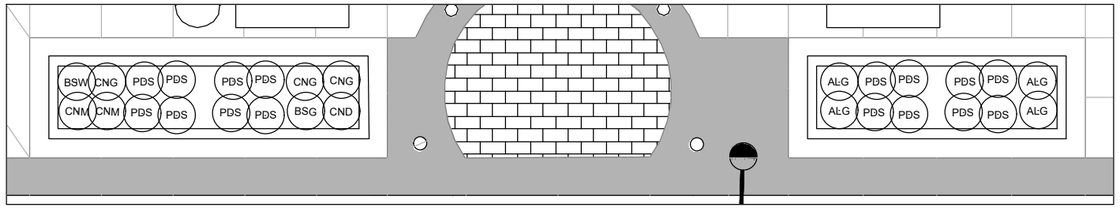
CONFLUENCE

LP-17
LANDSCAPE PLAN
2ND AVE S

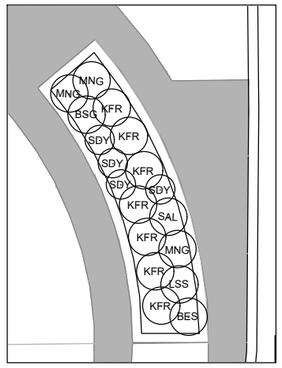
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	30

QUANTITIES (THIS SHEET)

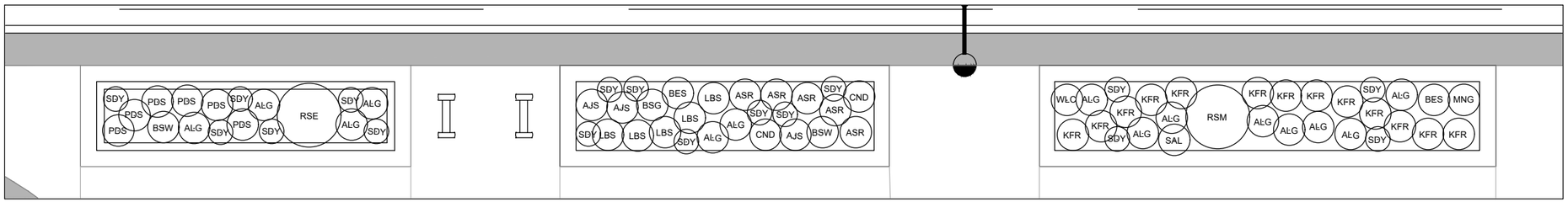
970	1012	Shrubs Group A	
			3 EA
970	1030	Perennials Group A	
			151 EA



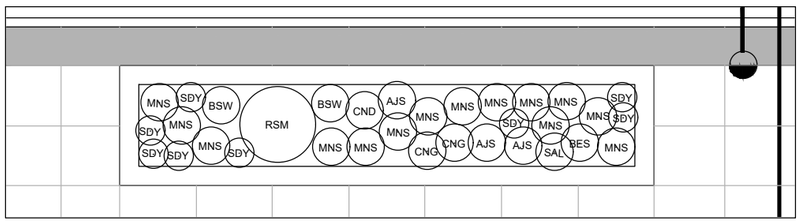
1 / 33 — PLANTERS 1 & 2 — 1/8" = 1' - 0"



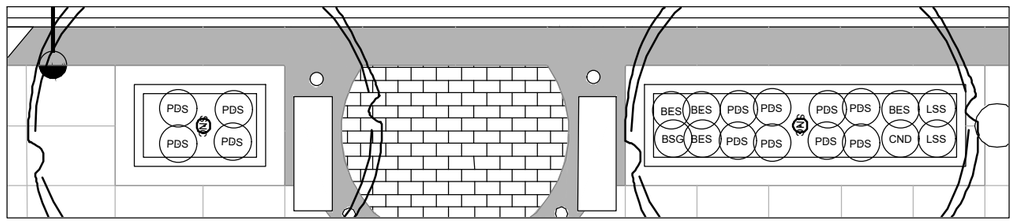
2 / 33 — PLANTER 3 — 1/8" = 1' - 0"



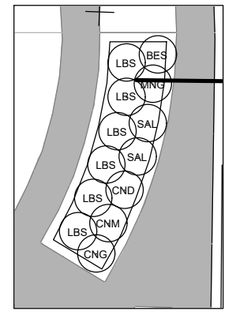
3 / 33 — PLANTERS 4, 5 & 6 — 1/8" = 1' - 0"



4 / 33 — PLANTER 7 — 1/8" = 1' - 0"



5 / 33 — PLANTERS 8 & 9 — 1/8" = 1' - 0"



6 / 33 — PLANTER 10 — 1:8

PLANT KEY

KFR	FOERSTER'S FEATHER REED GRASS	SDY	SNO CAP SHASTA DAISY	MNG	GRANDMUM BEE BALM
MNS	GRAPE GUMBALL BEE BALM	PDS	PRAIRIE DROPSEED	BSG	MEADOW BLAZING STAR
ASR	SMOOTH ASTER	SAL	MAY NIGHT SALVIA	BSW	FLORISTAN WHITE BLAZING STAR
LBS	STANDING OVATION LITTLE BLUE STEM	CND	POWWOW WHITE CONEFLOWER	ALG	GLOBEMASTER ORNAMENTAL ONION
WLC	WALKER'S LOW CATMINT	CNG	GREEN JEWEL CONEFLOWER	RSE	NEARLY WILD ROSE
LSS	LITTLE SPIRE RUSSIAN SAGE	CNM	MAGNUS CONEFLOWER	RSM	MEADOW ROSE
AJS	AUTUMN JOY SEDUM	BES	BLACK-EYED SUSAN		

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

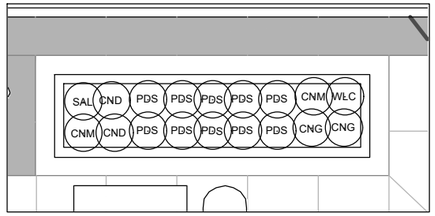
CONFLUENCE

LP-18
PLANTING PLAN
SHEYENNE STREETSCAPE

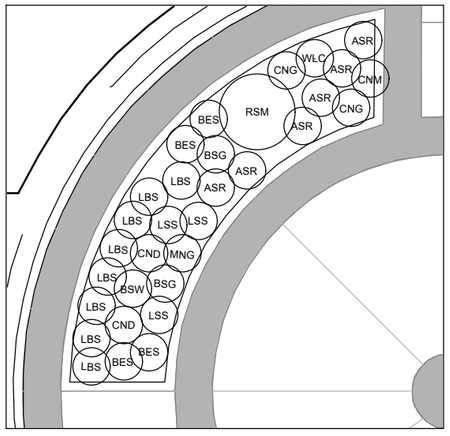
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	31

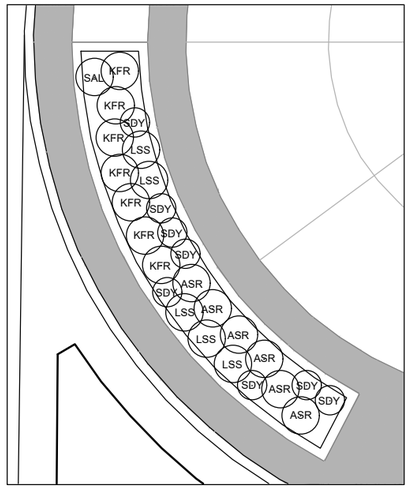
QUANTITIES (THIS SHEET)

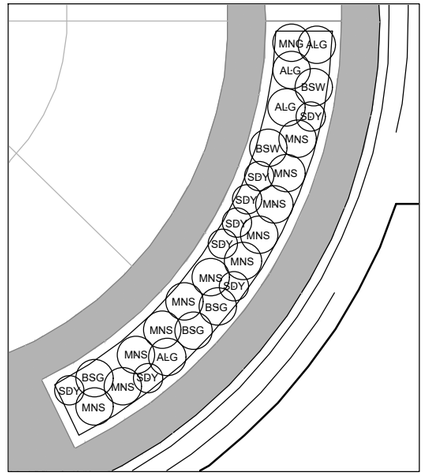
970	1012	Shrubs Group A	4 EA
970	1030	Perennials Group A	211 EA

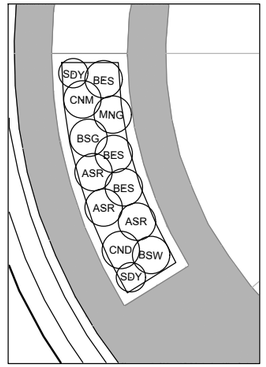


1 34 **PLANTER 13** 1:8







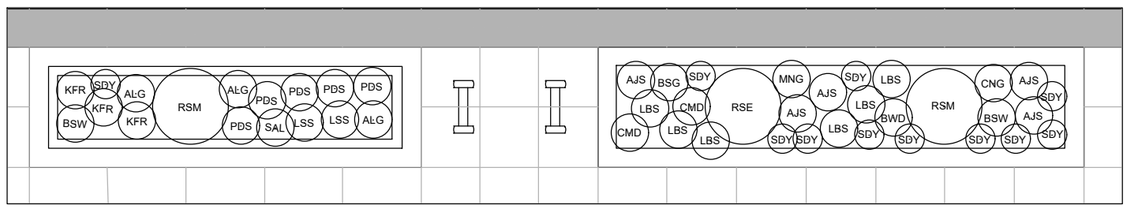


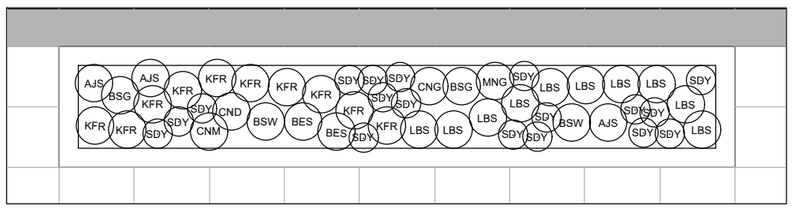
2 34 **PLANTER 11** 1/8" = 1' - 0"

3 34 **PLANTER 12** 1/8" = 1' - 0"

4 34 **PLANTER 14** 1/8" = 1' - 0"

5 34 **PLANTER 15** 1/8" = 1' - 0"





6 34 **PLANTER 16 & 17** 1/8" = 1' - 0"

7 34 **PLANTER 18** 1/8" = 1' - 0"

PLANT KEY

KFR	FOERSTER'S FEATHER REED GRASS	SDY	SNO CAP SHASTA DAISY	MNG	GRANDMUM BEE BALM
MNS	GRAPE GUMBALL BEE BALM	PDS	PRAIRIE DROPSEED	BSG	MEADOW BLAZING STAR
ASR	SMOOTH ASTER	SAL	MAY NIGHT SALVIA	BSW	FLORISTAN WHITE BLAZING STAR
LBS	STANDING OVATION LITTLE BLUE STEM	CND	POWWOW WHITE CONEFLOWER	ALG	GLOBEMASTER ORNAMENTAL ONION
WLC	WALKER'S LOW CATMINT	CNG	GREEN JEWEL CONEFLOWER	RSE	NEARLY WILD ROSE
LSS	LITTLE SPIRE RUSSIAN SAGE	CNM	MAGNUS CONEFLOWER	RSM	MEADOW ROSE
AJS	AUTUMN JOY SEDUM	BES	BLACK-EYED SUSAN		

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

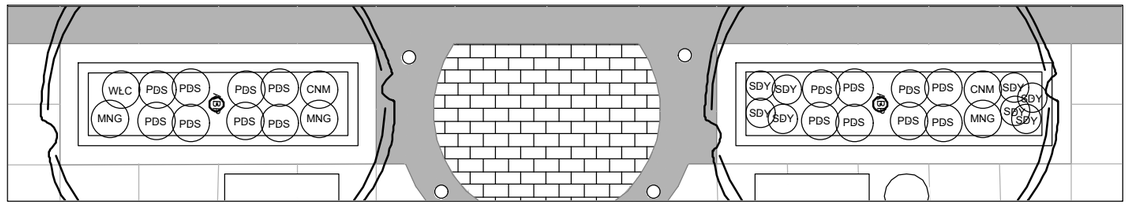
CONFLUENCE

LP-19
PLANTING PLAN
SHEYENNE STREETSCAPE

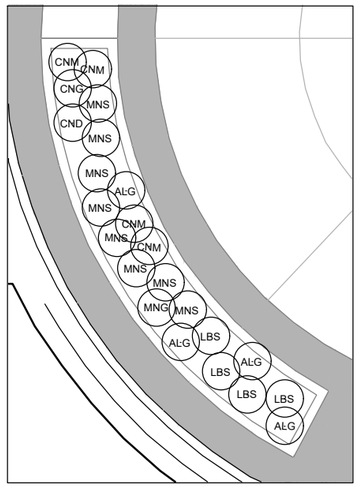
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	32

QUANTITIES (THIS SHEET)

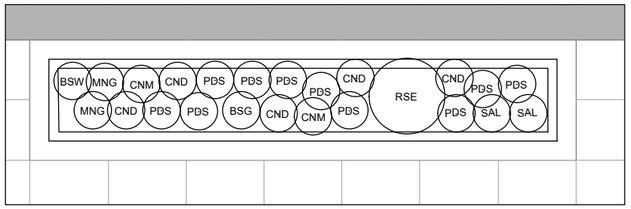
970	1012	Shrubs Group A	
			7 EA
970	1030	Perennials Group A	
			214 EA



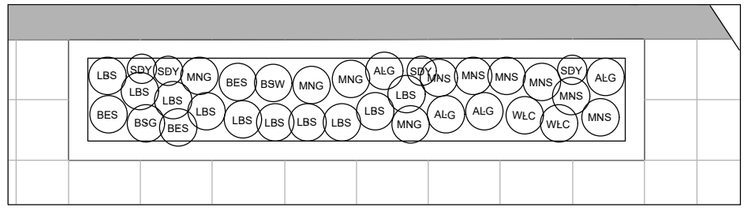
1 / 35 — PLANTER 19 AND 20 — 1/8" = 1' - 0"



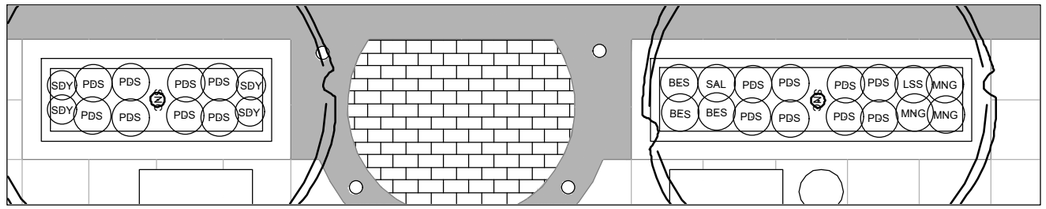
2 / 35 — PLANTER 21 — 1/8" = 1' - 0"



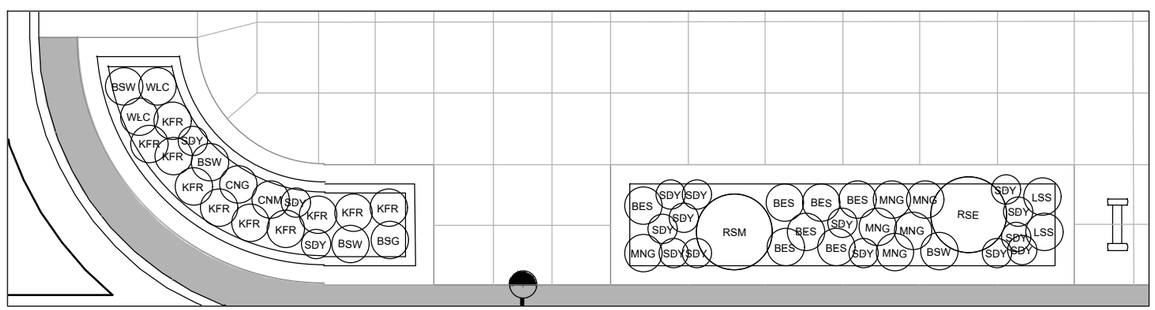
3 / 35 — PLANTER 22 — 1/8" = 1' - 0"



4 / 35 — PLANTER 23 — 1/8" = 1' - 0"



5 / 35 — PLANTER 24 & 25 — 1/8" = 1' - 0"



6 / 35 — PLANTER 26 & 27 — 1/8" = 1' - 0"

PLANT KEY

KFR	FOERSTER'S FEATHER REED GRASS
MNS	GRAPE GUMBALL BEE BALM
ASR	SMOOTH ASTER
LBS	STANDING OVATION LITTLE BLUE STEM
WLC	WALKER'S LOW CATMINT
LSS	LITTLE SPIRE RUSSIAN SAGE
AJS	AUTUMN JOY SEDUM
SDY	SNO CAP SHASTA DAISY
PDS	PRAIRIE DROPSEED
SAL	MAY NIGHT SALVIA
CND	POWWOW WHITE CONEFLOWER
CNG	GREEN JEWEL CONEFLOWER
CNM	MAGNUS CONEFLOWER
BES	BLACK-EYED SUSAN
MNG	GRANDMUM BEE BALM
BSG	MEADOW BLAZING STAR
BSW	FLORISTAN WHITE BLAZING STAR
ALG	GLOBEMASTER ORNAMENTAL ONION
RSE	NEARLY WILD ROSE
RSM	MEADOW ROSE

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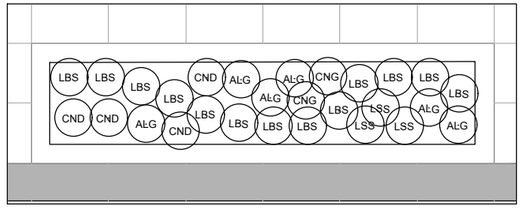
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

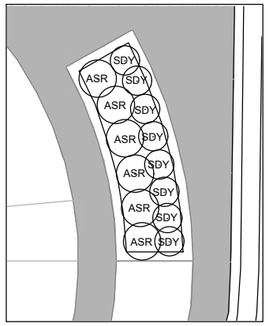
CONFLUENCE

LP-20
PLANTING PLAN
SHEYENNE STREETSCAPE

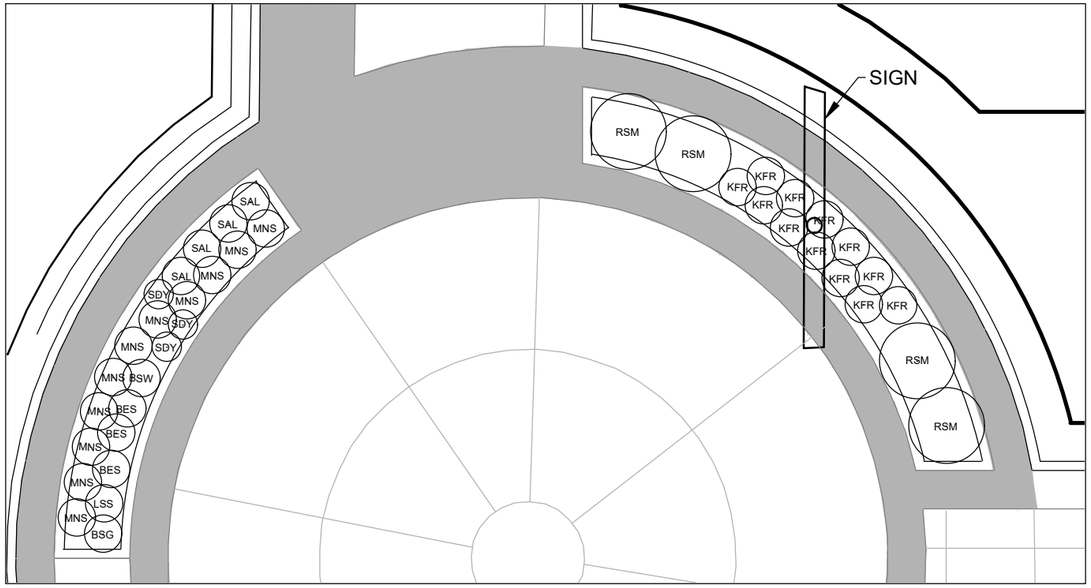
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	33



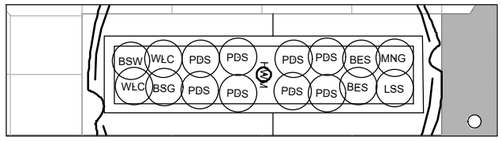
1 36 **PLANTER 28** 1/8" = 1' - 0"



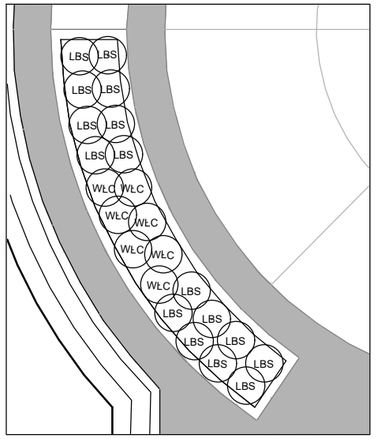
2 36 **PLANTER 29** 1:8



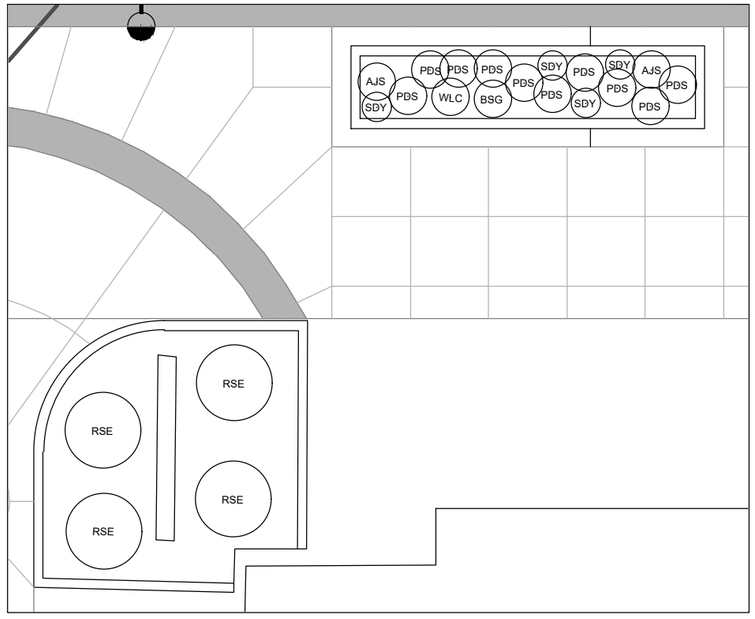
3 36 **PLANTERS 30 & 31** 1/8" = 1' - 0"



4 36 **PLANTER 32** 1/8" = 1' - 0"



5 36 **PLANTER 33** 1/8" = 1' - 0"



6 36 **PLANTER 34 & 35** 1/8" = 1' - 0"

QUANTITIES (THIS SHEET)

970	1012	Shrubs Group A	8 EA
970	1030	Perennials Group A	135 EA

PLANT KEY

KFR	FOERSTER'S FEATHER REED GRASS
MNS	GRAPE GUMBALL BEE BALM
ASR	SMOOTH ASTER
LBS	STANDING OVATION LITTLE BLUE STEM
WLC	WALKER'S LOW CATMINT
LSS	LITTLE SPIRE RUSSIAN SAGE
AJS	AUTUMN JOY SEDUM
SDY	SNO CAP SHASTA DAISY
PDS	PRAIRIE DROPSEED
SAL	MAY NIGHT SALVIA
CND	POWWOW WHITE CONEFLOWER
CNG	GREEN JEWEL CONEFLOWER
CNM	MAGNUS CONEFLOWER
BES	BLACK-EYED SUSAN
MNG	GRANDMUM BEE BALM
BSG	MEADOW BLAZING STAR
BSW	FLORISTAN WHITE BLAZING STAR
ALG	GLOBEMASTER ORNAMENTAL ONION
RSE	NEARLY WILD ROSE
RSM	MEADOW ROSE

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

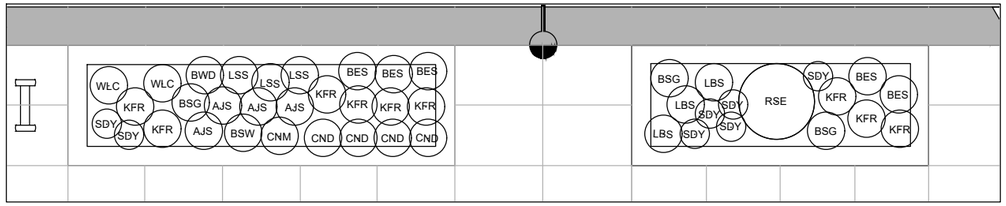
CONFLUENCE

LP-21
PLANTING PLAN
SHEYENNE STREETSCAPE

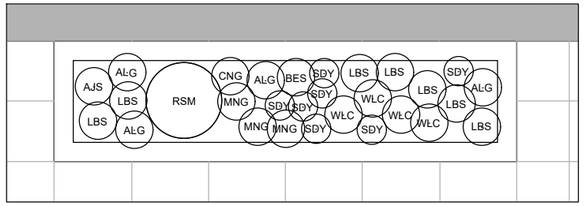
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	34

QUANTITIES (THIS SHEET)

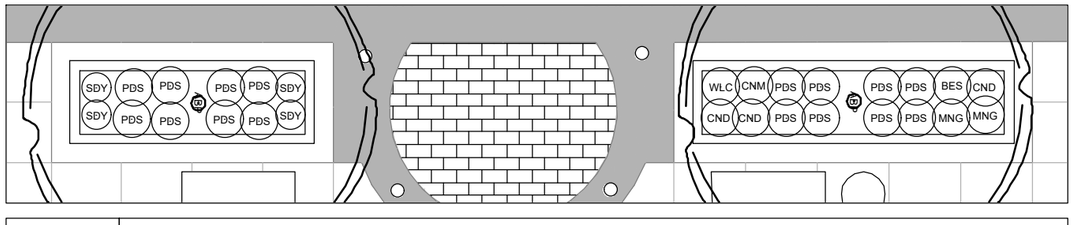
970	1012	Shrubs Group A	4 EA
970	1030	Perennials Group A	178 EA



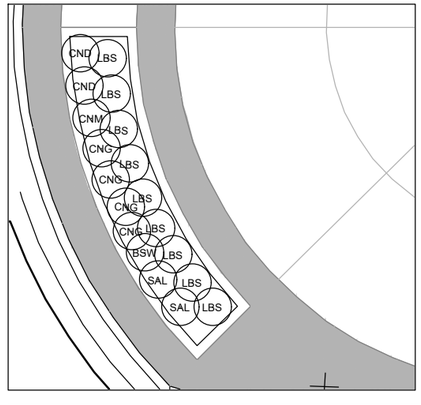
1 37 **PLANTERS 36 & 37** 1/8" = 1' - 0"



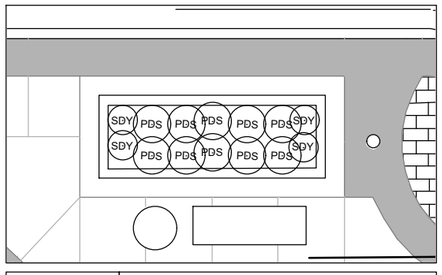
2 37 **PLANTER 38** 1/8" = 1' - 0"



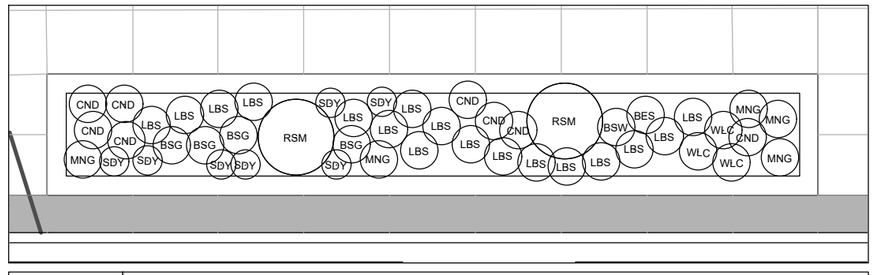
3 37 **PLANTER 39 & 40** 1/8" = 1' - 0"



4 37 **PLANTER 41** 1/8" = 1' - 0"



5 37 **PLANTER 42** 1/8" = 1' - 0"



6 37 **PLANTER 43** 1/8" = 1' - 0"

PLANT KEY

KFR	FOERSTER'S FEATHER REED GRASS	SDY	SNO CAP SHASTA DAISY	MNG	GRANDMUM BEE BALM
MNS	GRAPE GUMBALL BEE BALM	PDS	PRAIRIE DROPSEED	BSG	MEADOW BLAZING STAR
ASR	SMOOTH ASTER	SAL	MAY NIGHT SALVIA	BSW	FLORISTAN WHITE BLAZING STAR
LBS	STANDING OVATION LITTLE BLUE STEM	CND	POWWOW WHITE CONEFLOWER	ALG	GLOBEMASTER ORNAMENTAL ONION
WLC	WALKER'S LOW CATMINT	CNG	GREEN JEWEL CONEFLOWER	RSE	NEARLY WILD ROSE
LSS	LITTLE SPIRE RUSSIAN SAGE	CNM	MAGNUS CONEFLOWER	RSM	MEADOW ROSE
AJS	AUTUMN JOY SEDUM	BES	BLACK-EYED SUSAN		

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

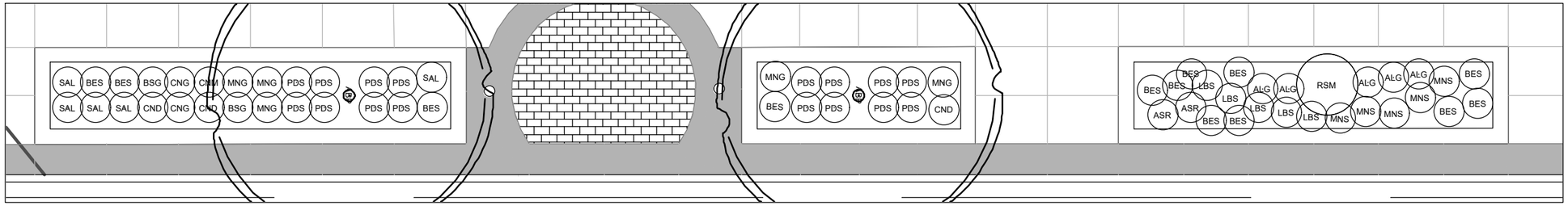
CONFLUENCE

LP-22
PLANTING PLAN
SHEYENNE STREETSCAPE

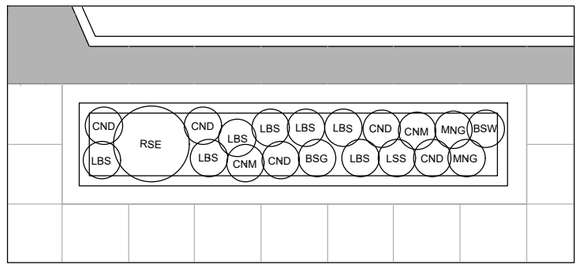
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	35

QUANTITIES (THIS SHEET)

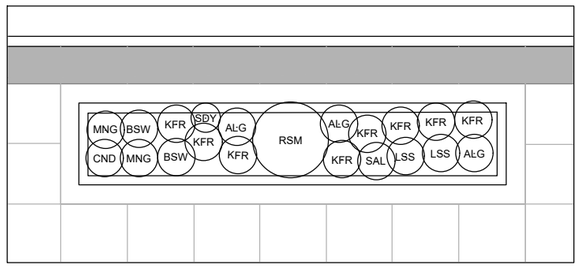
970	1012	Shrubs Group A	
			7 EA
970	1030	Perennials Group A	
			181 EA



1 / 38 — PLANTERS 44, 45 & 46 — 1/8" = 1' - 0"



2 / 38 — TYP. PLANT LAYOUT A — 1/8" = 1' - 0"



3 / 38 — TYP. PLANT LAYOUT B — 1/8" = 1' - 0"

PLANT KEY

KFR	FOERSTER'S FEATHER REED GRASS	SDY	SNO CAP SHASTA DAISY	MNG	GRANDMUM BEE BALM
MNS	GRAPE GUMBALL BEE BALM	PDS	PRAIRIE DROPSEED	BSG	MEADOW BLAZING STAR
ASR	SMOOTH ASTER	SAL	MAY NIGHT SALVIA	BSW	FLORISTAN WHITE BLAZING STAR
LBS	STANDING OVATION LITTLE BLUE STEM	CND	POWWOW WHITE CONEFLOWER	ALG	GLOBEMASTER ORNAMENTAL ONION
WLC	WALKER'S LOW CATMINT	CNG	GREEN JEWEL CONEFLOWER	RSE	NEARLY WILD ROSE
LSS	LITTLE SPIRE RUSSIAN SAGE	CNM	MAGNUS CONEFLOWER	RSM	MEADOW ROSE
AJS	AUTUMN JOY SEDUM	BES	BLACK-EYED SUSAN		

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UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-23
PLANTING PLAN
SHEYENNE STREETSCAPE

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	36

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/REMARKS
			CANOPY TREES			
NAH	2	Gleditsia Triacanthos var. Inermis 'Harve'	NORTHERN ACCLAIM THORNLESS HONEYLOCUST	2" CAL.	B&B	
ELM	3	Ulmus 'Morton Glossy'	TRIUMPH ELM	2" CAL.	B&B	
PHA	2	Alnus hirsuta cv. 'Harbin'	PRAIRIE HORIZON MANCHURIAN ALDER	2" CAL.	B&B	
			ORNAMENTAL TREES			
SNC	4	Malus x 'Spring Snow'	SPRING SNOW' CRABAPPLE	2" CAL.	B&B	
ABP	8	Pyrus calleryana 'Autumn Blaze"	AUTUMN BLAZE CALLERY PEAR	2" CAL.	B&B	
HWM	1	Acer tataricum 'GarAnn'	HOT WINGS TATARIAN MAPLE	2" CAL.	B&B	
			DECIDUOUS SHRUBS			
RSM	17	Rosa blanda	MEADOW ROSE	3 GAL.	CONT.	
RSE	12	Rosa x 'Nearly Wild'	NEARLY WILD ROSE	3 GAL.	CONT.	
			PERENNIALS			
MNS	55	Monarda 'Grape Gumball' (PPAF)	GRAPE GUMBALL MONARDA	1 GAL.	CONT.	
SAL	25	Salvia x sylvestris 'May Night'	MAY NIGHT SAGE	1 GAL.	CONT.	
MNG	57	Monarda didyma 'Grand Mum'	GRAND MUM MONARDA	1 GAL.	CONT.	
WLC	28	Nepeta x faassenii 'Walker's Low'	WALKER'S LOW CATMINT	1 GAL.	CONT.	
SDY	153	Chrysanthemum x superbum 'Snowcap'	SNOWCAP SHASTA DAISY	1 GAL.	CONT.	18" O.C. SPACING
BES	57	Rudbeckia hirta	BLACK-EYED SUSAN	1 GAL.	CONT.	
LSS	31	Perovskia atriplicifolia 'Little Spire'	LITTLE SPIRE RUSSIAN SAGE	1 GAL.	CONT.	
AJS	21	Sedum spectabile 'Autumn Joy'	AUTUMN JOY SEDUM	1 GAL.	CONT.	
ASR	28	Aster laevis	SMOOTH ASTER	1 GAL.	CONT.	
CND	60	Echinacea purpurea 'PAS702918'	POWWOW WHITE CONEFLOWER	1 GAL.	CONT.	
CNM	27	Echinacea purpurea 'Magnus'	MAGNUS PURPLE CONEFLOWER	1 GAL.	CONT.	
CNG	23	Echinacea pupurea 'Green Jewel' PP18678	GREEN JEWEL CONEFLOWER	1 GAL.	CONT.	
BSG	31	Liatris ligulistylus	MEADOW BLAZING STAR	1 GAL.	CONT.	
BSW	33	Liatris spicata 'Floristan Weiss'	FLORISTAN WEISS GAYFEATHER	1 GAL.	CONT.	
ALG	48	Allium 'globemaster'	ORNAMENTAL ONION 'GLOBEMASTER'	1 GAL.	CONT.	
			ORNAMENTAL GRASSES			
KFR	92	Calamagrostis x acutiflora 'Karl Foerster'	FOERSTER'S FEATHER REED GRASS	1 GAL.	CONT.	
LBS	139	Schizachyrium scoparium 'Standing Ovation'	STANDING OVATION LITTLE BLUESTEM	1 GAL.	CONT.	
PDS	156	Sporobolus heterolepis	PRAIRIE DROPSEED	1 GAL.	CONT.	

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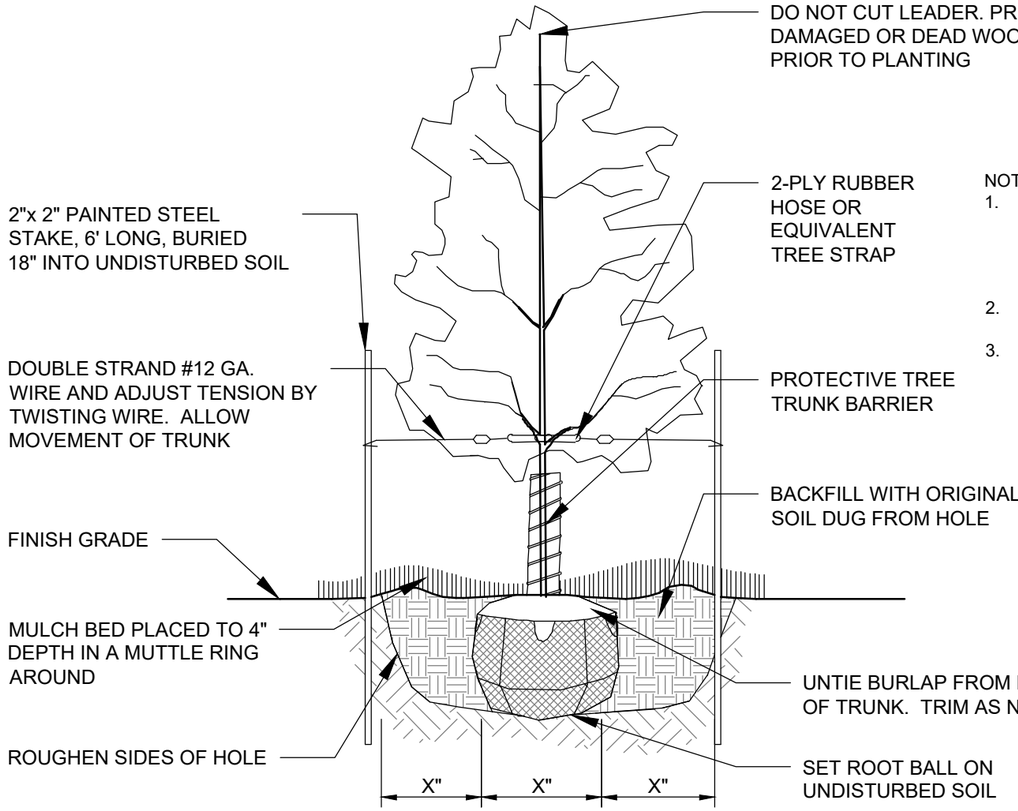
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-24
PLANT SCHEDULE
SHEYENNE STREETSCAPE

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	37

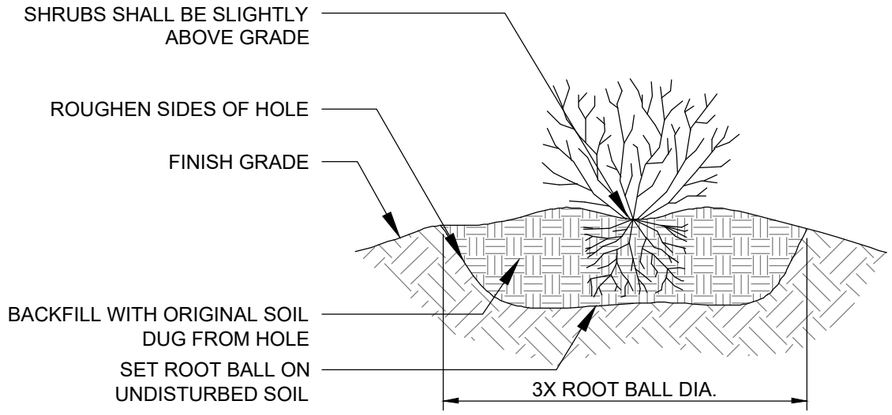


NOTES:
1. MEASURE HEIGHT OF ROOT BALL. SUBTRACT THE DEPTH OF SOIL OVER THE FIRST ROOT FROM THE HEIGHT OF THE ROOT BALL. DIG HOLE FOR ADJUSTED DEPTH.
2. MULCH SHOULD BE SPREAD UP TO BUT NOT TOUCH TRUNK OF TREE
3. IF TREE IN IN CONTAINER, REMOVE CONTAINER AND DISCARD BEFORE PLANTING

1
39

TREE INSTALLATION

N.T.S

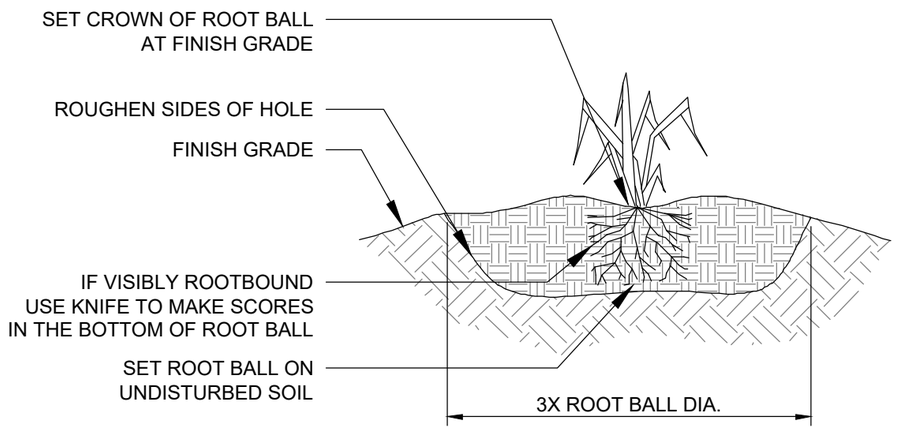


NOTES:
1. PRUNE ALL DEAD, BROKEN, DISEASED AND WEAK BRANCHES
2. ENTIRE CONTAINER SHALL BE REMOVED

2
39

SHRUB INSTALLATION

N.T.S



NOTES:
1. REMOVE ALL POTS AND CONTAINERS BEFORE PLANTING
2. REMOVE DAMAGED STEMS AND SPENT BLOOMS AFTER PLANTING
3. WATER IMMEDIATELY AFTER PLANTING IS COMPLETED

3
39

PERENNIAL INSTALLATION

N.T.S

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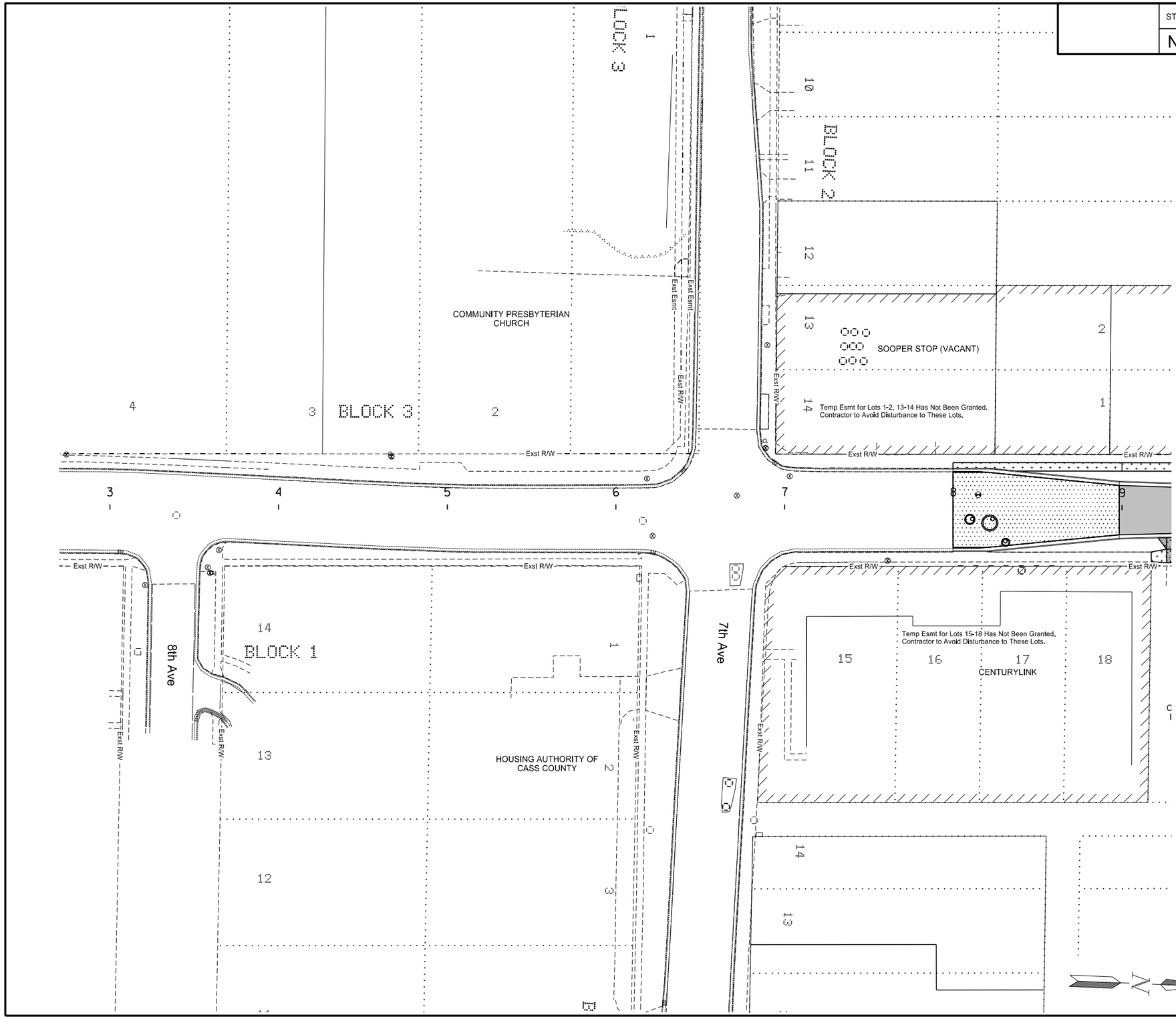
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-25
PLANTING DETAILS
SHEYENNE STREETSCAPE

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	1

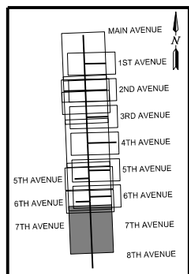
SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 8+00 to 9+00	154	CY
		Sidewalk & Pigment Imprinted Concrete	6	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 8+00 to 8+98	129	TON
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 8+98 to 9+00	6	SY
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 8+21 to 9+00 Lt	100	LF
		Sta 8+21 to 9+00 Rt	100	LF
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 8+38 to 9+00 Lt	50	SY



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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Sheyenne Street

Paving Layouts

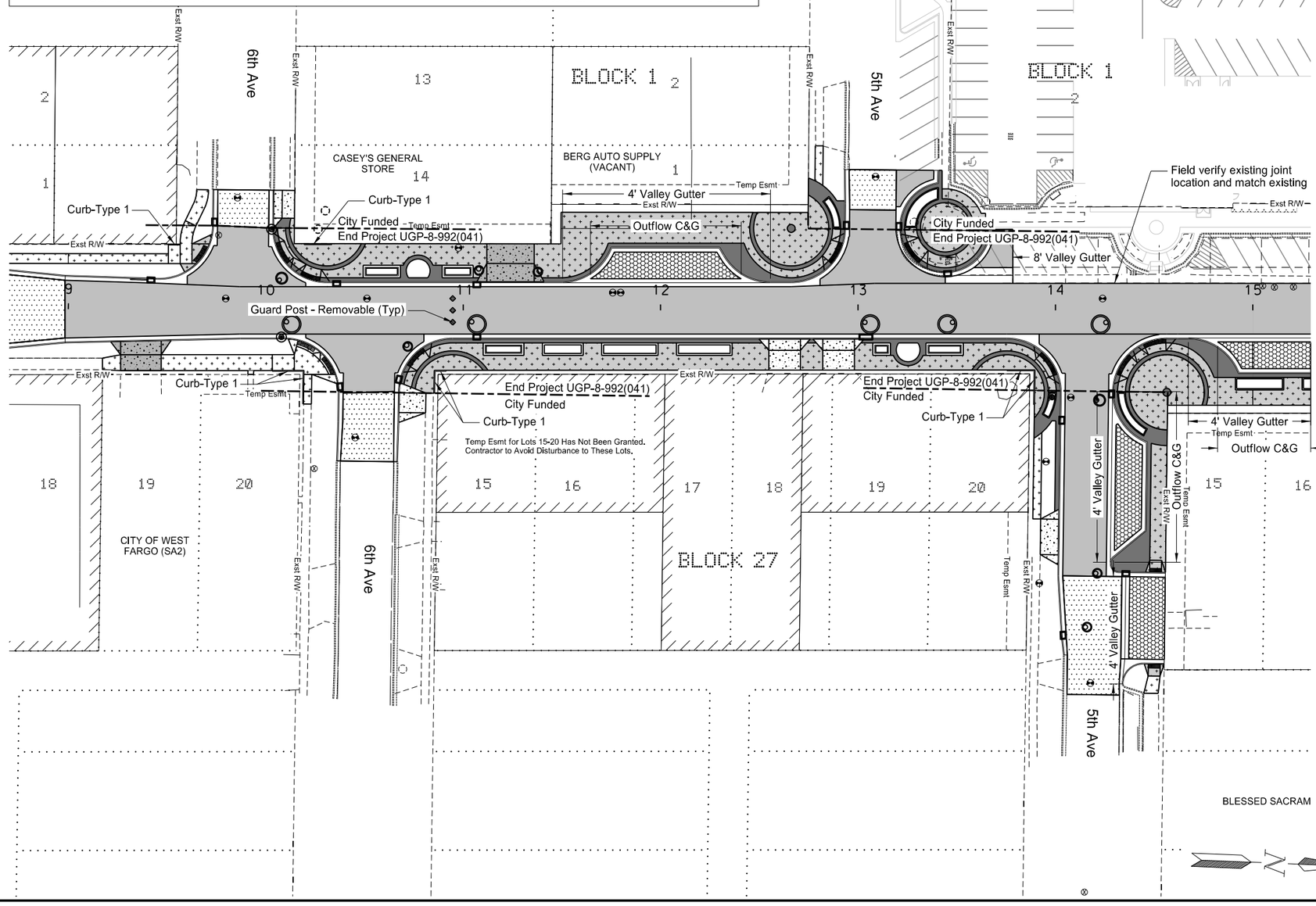
Sta 3+00 to Sta 9+00 (PRSHEYENNE)

8/15/2020 4:34:00 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\090PL_001.dgn

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	2

SPEC	CODE	BID ITEM	QTY UNIT
750	0030	PIGMENTED IMPRINTED CONCRETE	
		Sta 10+04 to 12+93 Lt	127 SY
		Sta 10+68 to 14+02 Rt	88 SY
		Sta 13+22 to 13+78 Lt	20 SY
		Sta 14+29 to 15+00 Rt	58 SY
750	0115	SIDEWALK CONCRETE 4IN	
		Sta 9+00 to 9+72 Lt	52 SY
		Sta 9+17 to 10+36 Rt	114 SY
750	0120	SIDEWALK CONCRETE 5IN REINF	
		Sta 10+04 to 12+93 Lt	485 SY
		Sta 10+68 to 14+02 Rt	325 SY
		Sta 13+22 to 13+78 Lt	98 SY
		Sta 14+29 to 15+00 Rt	133 SY
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	
		Sta 12+50 to 12+75 Rt	31 SY
		Sta 12+77 to 13+03 Rt	31 SY
750	1000	DRIVEWAY CONCRETE	
		Sta 11+07 to 11+41 Lt	56 SY
		Sta 9+21 to 9+52 Rt	42 SY
750	2115	DETECTABLE WARNING PANELS	
		Sta 9+66 28.3' Lt	18.9 SF
		Sta 10+08 29.1' Lt	22.7 SF
		Sta 10+22 17.0' Lt	18.9 SF
		Sta 10+22 18.8' Rt	18.9 SF
		Sta 10+32 28.4' Rt	18.9 SF
		Sta 10+73 27.6' Rt	22.7 SF
		Sta 12+89 29.2' Lt	22.7 SF
		Sta 13.27 29.0' Lt	22.7 SF
		Sta 13+97 26.9' Rt	26.5 SF
		Sta 14+35 27.2' Rt	22.7 SF
		Sta 14+50 16.3' Rt	22.7 SF
990	0221	GUARD POST-REMOVEABLE	
		Sta 10+95 6' Rt to 6' Lt	3 EA

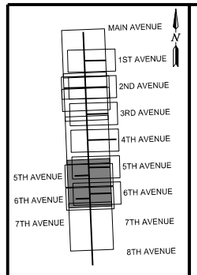
SPEC	CODE	BID ITEM	QTY UNIT
302	0121	AGGREGATE BASE COURSE CL 5	
		Sta 9+00 to 15+00	854 CY
		Sidewalk & Pigment Imprinted Concrete	167 CY
		Driveways	18 CY
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	
		Sta 11+64 to 12+40 Lt	92 SY
		Sta 14+82 to 15+00 Rt	16 SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED	
		Sta 9+00 to 15+00	1664 SY
		Sta 9+45 to 10+31 Lt	126 SY
		Sta 10+09 to 10+95 Rt	122 SY
		Sta 12+68 to 13+44 Lt	113 SY
		Sta 13+75 to 14+56 Rt	108 SY
748	0190	CURB & GUTTER-TYPE I 30IN	
		Sta 9+00 to 15+00 Lt	508 LF
		Sta 9+00 to 15+00 Rt	620 LF
748	0520	CURB-TYPE I	
		Sta 9+50 33.5' Lt to 9+56 33.5' Lt	6 LF
		Sta 10+03 31.0' Rt to 10+19 41.1' Rt	26 LF
		Sta 10+20 33.3' Lt to 10+34 33.3' Lt	14 LF
		Sta 10+86 41.9' Rt to 10+91 30.9' Rt	17 LF
		Sta 13+74 30.7' Rt to 13+89 40.6' Rt	24 LF
748	1080	VALLEY GUTTER-TYPE I 48IN	
		Sta 11+60 to 12+45 Lt	47 SY
		Sta 13+44 to 13+78 Lt	9 SY
		Sta 14+80 to 15+00 Rt	10 SY



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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Sheyenne Street

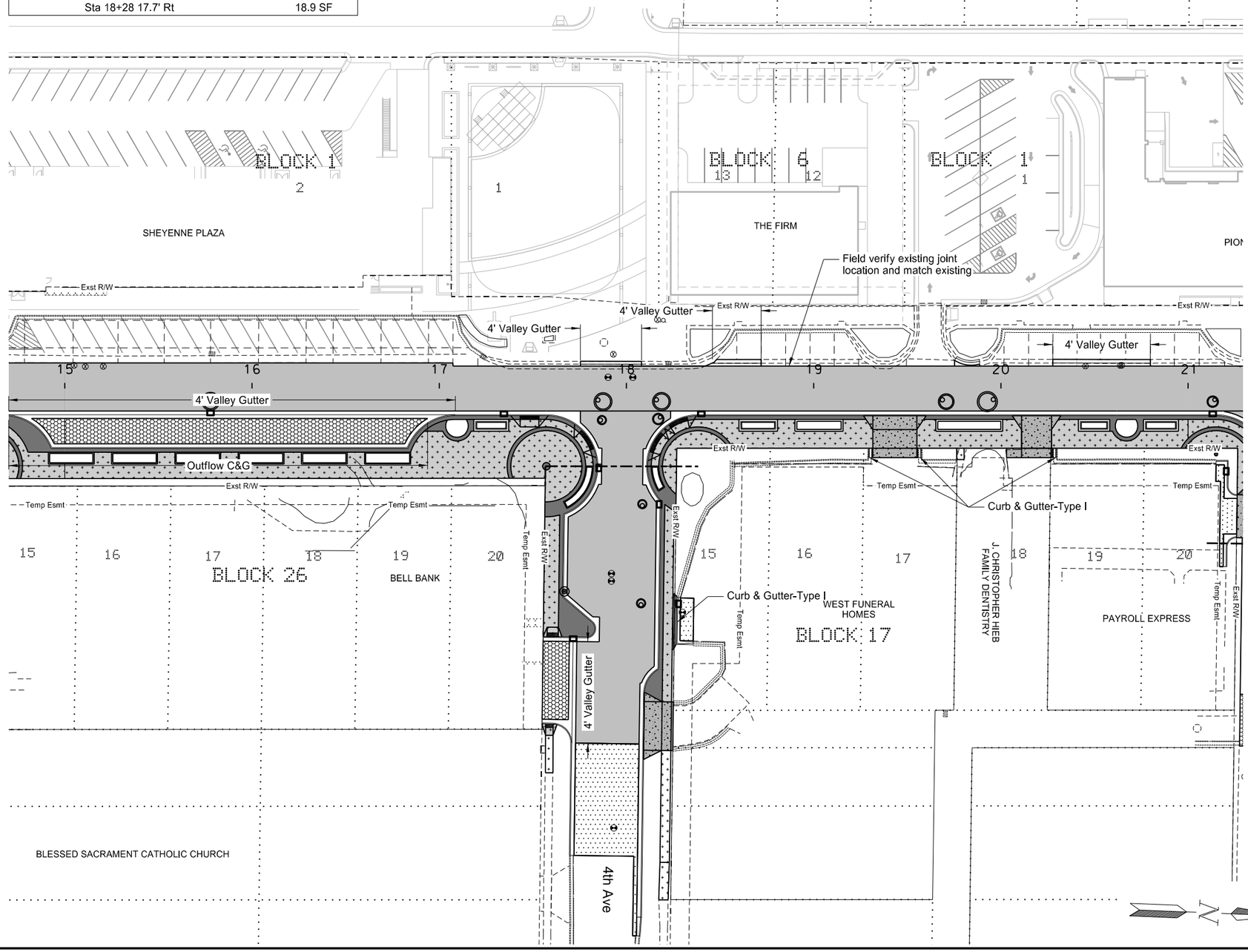
Paving Layouts

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	3

SPEC	CODE	BID ITEM	QTY UNIT
750	0120	SIDEWALK CONCRETE 5IN REINF	
		Sta 15+00 to 17+84 Rt	471 SY
		Sta 18+11 to 21+00 Rt	303 SY
750	1000	DRIVEWAY CONCRETE	
		Sta 19+26 to 12+60 Rt	63 SY
		Sta 20+06 to 20+32 Rt	48 SY
750	2115	DETECTABLE WARNING PANELS	
		Sta 17+48 25.5' Rt	20.0 SF
		Sta 17+79 27.6' Rt	22.7 SF
		Sta 18+16 27.0' Rt	22.7 SF
		Sta 18+28 17.7' Rt	18.9 SF

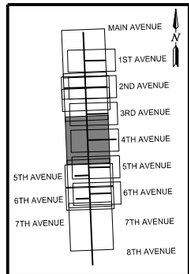
SPEC	CODE	BID ITEM	QTY UNIT
302	0121	AGGREGATE BASE COURSE CL 5	
		Sta 15+00 to 21+00	722 CY
		Sidewalk & Pigment Imprinted Concrete	105 CY
		Driveways	12 CY
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	
		Sta 15+00 to 16+94 Rt	291 SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED	
		Sta 15+00 to 21+00	1638 SY
		Sta 17+57 to 18+38 Rt	107 SY
748	0140	CURB & GUTTER-TYPE I	
		Sta 19+31 31.9' to 36.9' Rt	5 LF
		Sta 19+55 31.9' to 36.9' Rt	5 LF
		Sta 20+28 31.9' to 36.9' Rt	5 LF
748	0190	CURB & GUTTER-TYPE I 30IN	
		Sta 15+00 to 21+00 Rt	572 LF
748	1080	VALLEY GUTTER-TYPE I 48IN	
		Sta 15+00 to 17+08 Rt	90 SY
		Sta 17+75 to 18+08 Lt	9 SY
		Sta 18+42 to 18+69 Lt	10 SY
		Sta 20+28 to 20+80 Lt	21 SY
750	0030	PIGMENTED IMPRINTED CONCRETE	
		Sta 15+00 to 17+84 Rt	95 SY
		Sta 18+11 to 21+00 Rt	77 SY
750	0115	SIDEWALK CONCRETE 4IN	
		Sta 19+76 to 19+80 Rt	3 SY



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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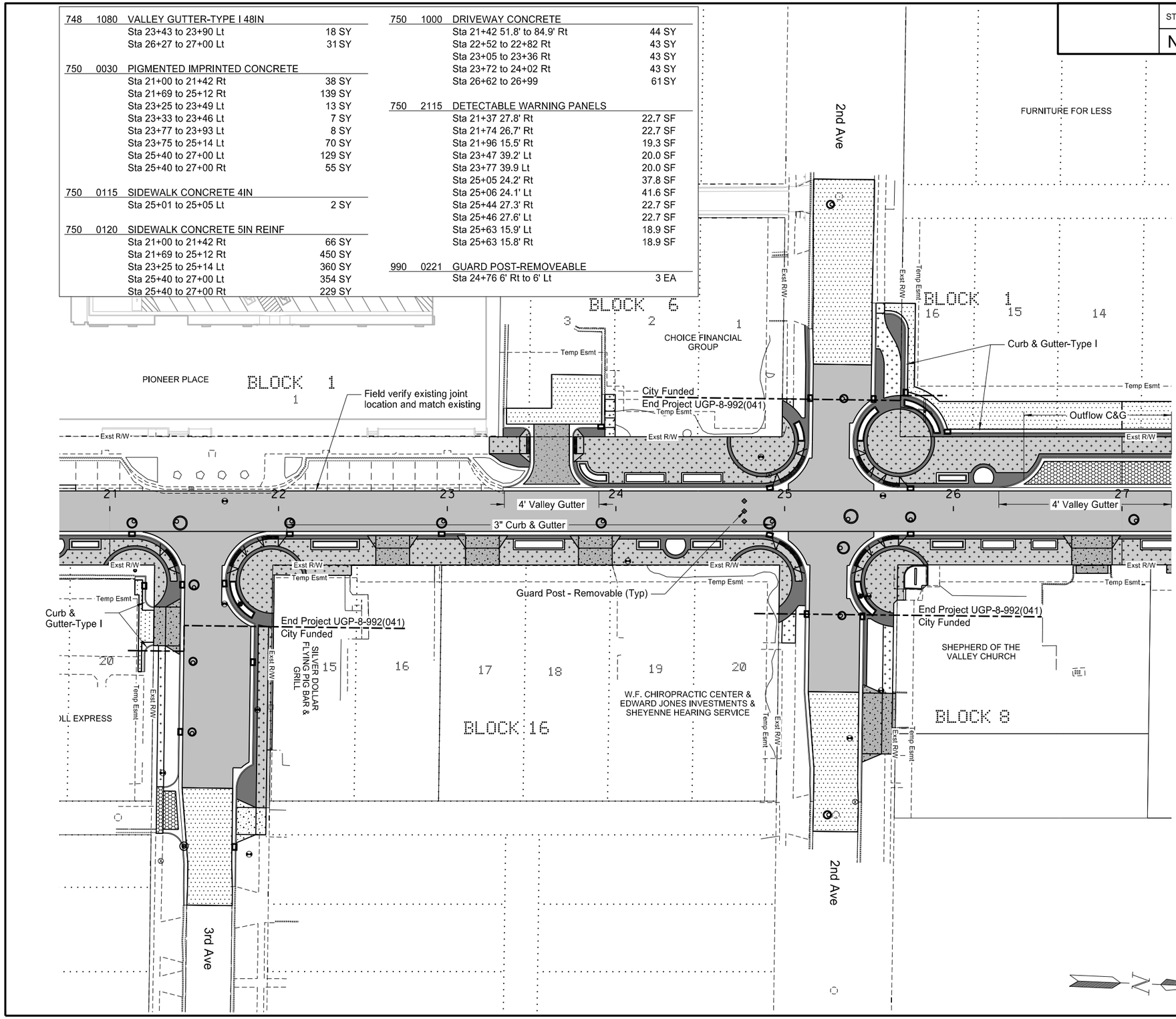
Sheyenne Street

Paving Layouts

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	4

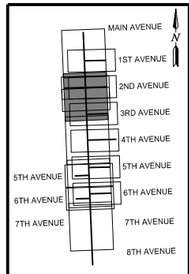
SPEC	CODE	BID ITEM	QTY	UNIT
748	1080	VALLEY GUTTER-TYPE I 48IN		
		Sta 23+43 to 23+90 Lt	18	SY
		Sta 26+27 to 27+00 Lt	31	SY
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 21+00 to 21+42 Rt	38	SY
		Sta 21+69 to 25+12 Rt	139	SY
		Sta 23+25 to 23+49 Lt	13	SY
		Sta 23+33 to 23+46 Lt	7	SY
		Sta 23+77 to 23+93 Lt	8	SY
		Sta 23+75 to 25+14 Lt	70	SY
		Sta 25+40 to 27+00 Lt	129	SY
		Sta 25+40 to 27+00 Rt	55	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 25+01 to 25+05 Lt	2	SY
750	0120	SIDEWALK CONCRETE 5IN REINF		
		Sta 21+00 to 21+42 Rt	66	SY
		Sta 21+69 to 25+12 Rt	450	SY
		Sta 23+25 to 25+14 Lt	360	SY
		Sta 25+40 to 27+00 Lt	354	SY
		Sta 25+40 to 27+00 Rt	229	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 21+42 51.8' to 84.9' Rt	44	SY
		Sta 22+52 to 22+82 Rt	43	SY
		Sta 23+05 to 23+36 Rt	43	SY
		Sta 23+72 to 24+02 Rt	43	SY
		Sta 26+62 to 26+99	61	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 21+37 27.8' Rt	22.7	SF
		Sta 21+74 26.7' Rt	22.7	SF
		Sta 21+96 15.5' Rt	19.3	SF
		Sta 23+47 39.2' Lt	20.0	SF
		Sta 23+77 39.9 Lt	20.0	SF
		Sta 25+05 24.2' Rt	37.8	SF
		Sta 25+06 24.1' Lt	41.6	SF
		Sta 25+44 27.3' Rt	22.7	SF
		Sta 25+46 27.6' Lt	22.7	SF
		Sta 25+63 15.9' Lt	18.9	SF
		Sta 25+63 15.8' Rt	18.9	SF
990	0221	GUARD POST-REMOVEABLE		
		Sta 24+76 6' Rt to 6' Lt	3	EA
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 21+00 to 27+00	848	CY
		Sidewalk & Colored Concrete	214	CY
		Driveways	26	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 21+14 to 21+62 Rt	8	TON
		Sta 23+35 to 23+92 Lt	35	TON
		Sta 25+80 to 27+00 Lt	55	TON
		Sta 21+00 to 27+00 Lt	11	TON
550	0106	7IN REINF CONCRETE PAVEMENT CL AE		
		Sta 26+42 to 27+00 Lt	76	SY
		Sta 23+42 to 23+79	89	SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 21+00 to 27+00	1600	SY
		Sta 21+19 to 21+92 Rt	190	SY
		Sta 24+85 to 25+67 Lt	177	SY
		Sta 24+85 to 25+67 Rt	161	SY
748	0140	CURB & GUTTER-TYPE I		
		Sta 21+15 to 21+26 Rt	27	LF
		Sta 21+18 to 21+29 Rt	23	LF
		Sta 23+34 61.0' to 49.1' Lt	11	LF
		Sta 23+93 69.2' to 49.1' Lt	20	LF
		Sta 25+70 to 27+00 Lt	137	LF
		Sta 26+73 31.2' to 36.9' Rt	5	LF
		Sta 26+94 31.2' to 36.9' Rt	5	LF
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 21+00 to 21+42 Rt	101	LF
		Sta 21+00 to 21+42 Rt	433	LF
		Sta 23+33 to 25+14 Lt	291	LF
		Sta 25+40 to 27+00 Lt	212	LF



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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Sheyenne Street

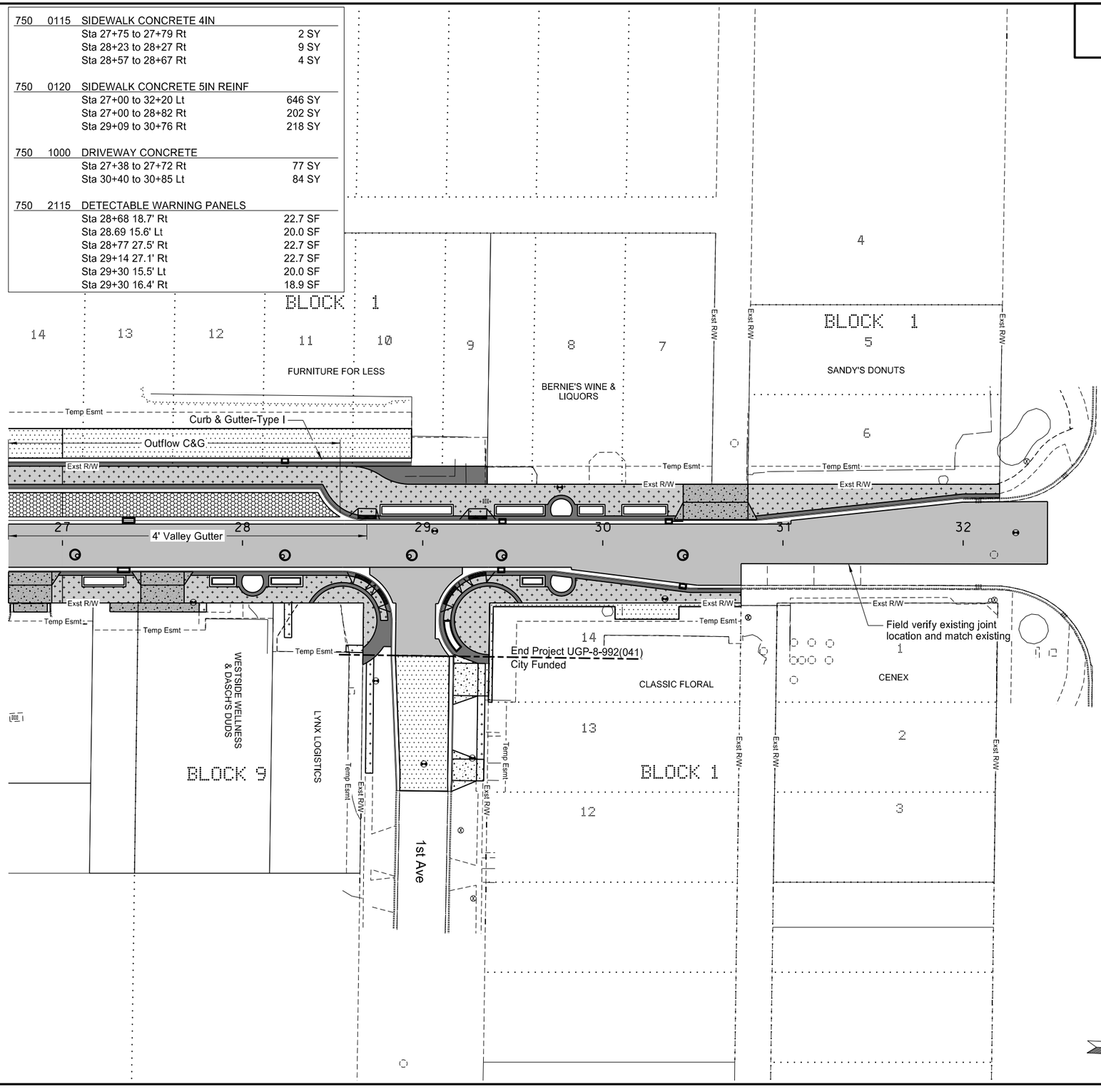
Paving Layouts

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	5

SPEC	CODE	BID ITEM	QTY UNIT
750	0115	SIDEWALK CONCRETE 4IN	
		Sta 27+75 to 27+79 Rt	2 SY
		Sta 28+23 to 28+27 Rt	9 SY
		Sta 28+57 to 28+67 Rt	4 SY
750	0120	SIDEWALK CONCRETE 5IN REINF	
		Sta 27+00 to 32+20 Lt	646 SY
		Sta 27+00 to 28+82 Rt	202 SY
		Sta 29+09 to 30+76 Rt	218 SY
750	1000	DRIVEWAY CONCRETE	
		Sta 27+38 to 27+72 Rt	77 SY
		Sta 30+40 to 30+85 Lt	84 SY
750	2115	DETECTABLE WARNING PANELS	
		Sta 28+68 18.7' Rt	22.7 SF
		Sta 28.69 15.6' Lt	20.0 SF
		Sta 28+77 27.5' Rt	22.7 SF
		Sta 29+14 27.1' Rt	22.7 SF
		Sta 29+30 15.5' Lt	20.0 SF
		Sta 29+30 16.4' Rt	18.9 SF

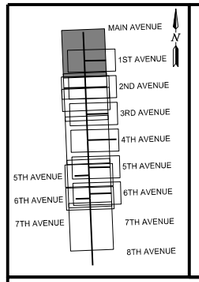
SPEC	CODE	BID ITEM	QTY UNIT
302	0121	AGGREGATE BASE COURSE CL 5	
		Sta 27+00 to 32+08	748 CY
		Sidewalk & Colored Concrete	160 CY
		Driveways	18 CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	
		Sta 27+00 to 28+94 Lt	108 TON
		Sta 29+37 to 30+77 Rt	21 TON
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	
		Sta 27+00 to 28+54 Lt	220 SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED	
		Sta 27+00 to 32+08 Lt	1635 SY
		Sta 28+55 to 29+36 Rt	171 SY
748	0140	CURB & GUTTER-TYPE I	
		Sta 27+00 to 28+94 Lt	190 LF
748	0190	CURB & GUTTER-TYPE I 30IN	
		Sta 27+00 to 32+00 Lt	508 LF
		Sta 27+00 to 28+83 Rt	220 LF
		Sta 29+09 to 30+76 Rt	181 LF
748	1080	VALLEY GUTTER-TYPE I 48IN	
		Sta 27+00 to 31+09 Lt	74 SY
750	0030	PIGMENTED IMPRINTED CONCRETE	
		Sta 27+00 to 32+20 Lt	224 SY
		Sta 27+00 to 28+82 Rt	77 SY
		Sta 29+09 to 30+76 Rt	74 SY



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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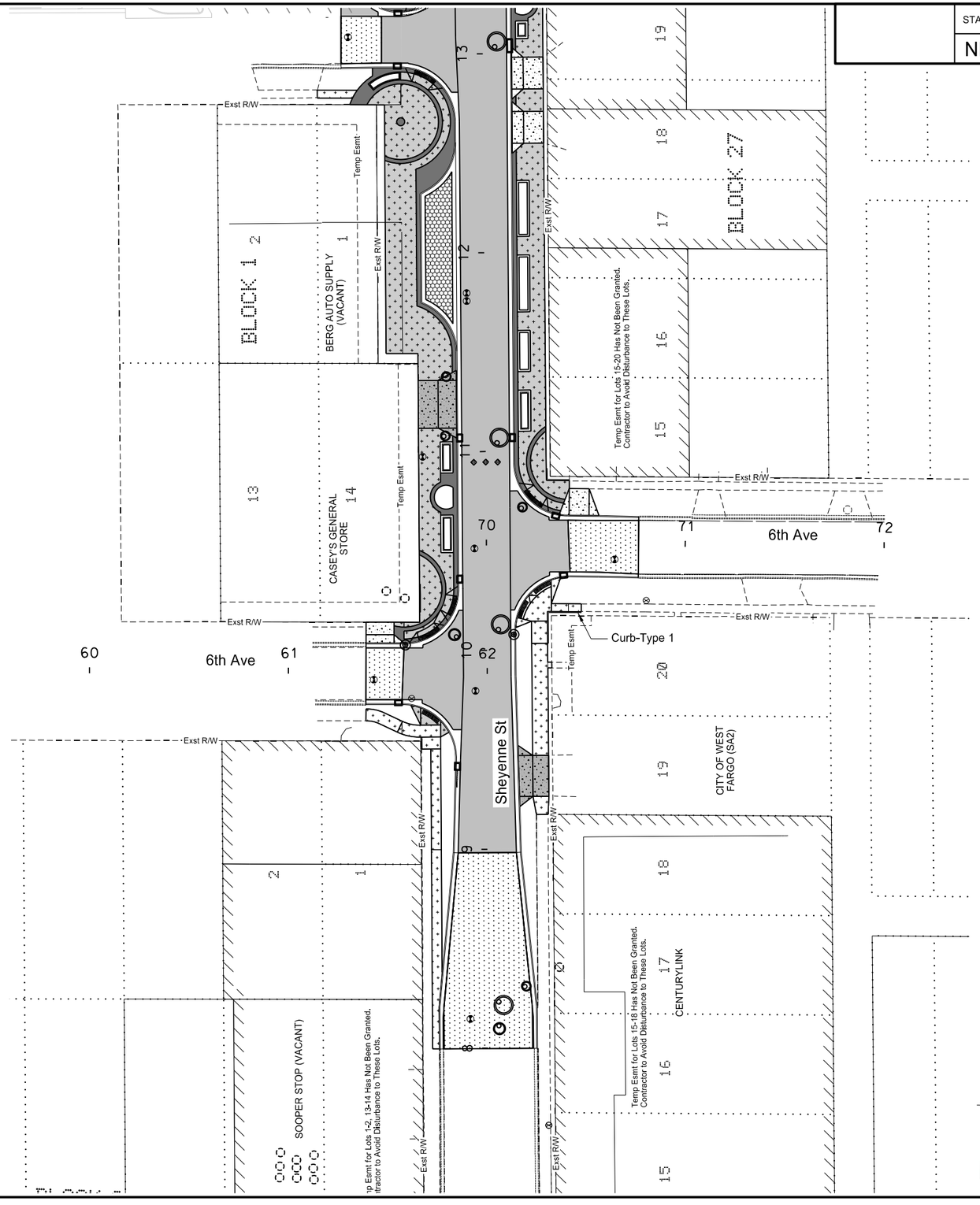
Sheyenne Street

Paving Layouts

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	6

SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 61+39 to 61+58 (City Funded)	22	CY
		Sidewalk (City Funded)	2	CY
		Driveways (City Funded)	2	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 61+39 to 61+58 (City Funded)	16	TON
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 61+39 to 61+57 Rt (City Funded)	18	LF
		Sta 61+39 to 61+58 Lt (City Funded)	19	LF
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 61+53 to 61+58 Lt (City Funded)	3	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 61+39 to 61+58 Rt (City Funded)	13	SY
750	0120	SIDEWALK CONCRETE 5IN REINF		
		Sta 61+53 to 61+58 Lt (City Funded)	1	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 61+39 to 61+58 Lt (City Funded)	18	SY

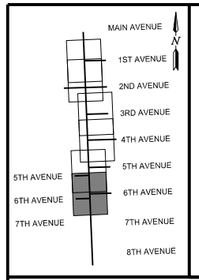


SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 70+41 to 70+77 (City Funded)	42	CY
		Sidewalk (City Funded)	0	CY
		Driveways (City Funded)	2	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 70+41 to 70+77 (City Funded)	31	TON
748	0520	CURB-TYPE I		
		Sta 70+42 to 70+48 Rt (City Funded)	6	LF
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 70+41 to 70+77 Lt (City Funded)	34	LF
		Sta 70+41 to 70+77 Rt (City Funded)	36	LF
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 70+41 to 70+48 Rt (City Funded)	3	SY
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED		
		Sta 70+41 to 70+77 Lt (City Funded)	22	SY

LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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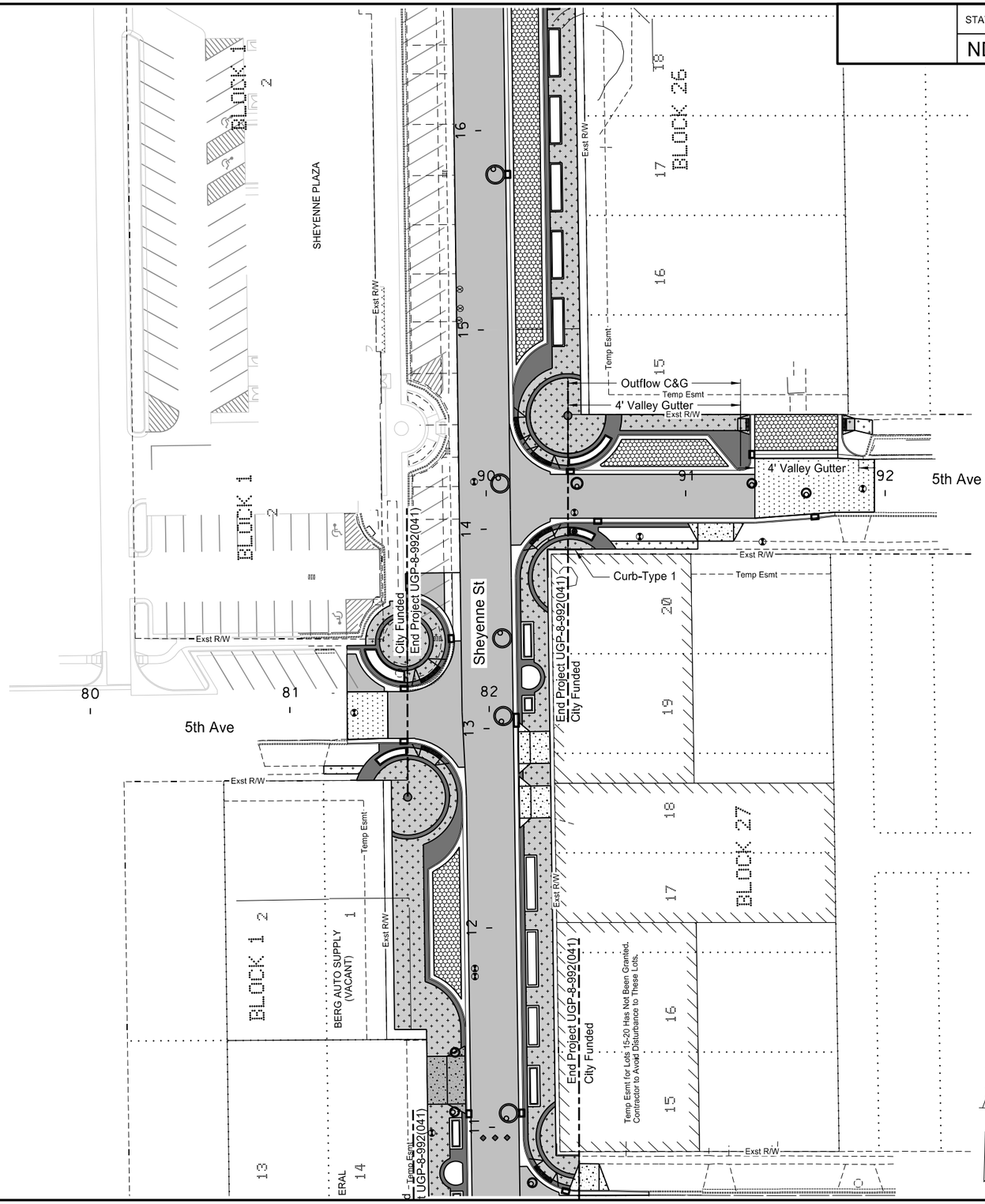
6th Ave

Paving Layouts

Sta 60+00 to Sta 62+00 (PR6TH_W)
Sta 70+00 to Sta 72+00 (PR6TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	7

SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 81+31 to 81+59 (City Funded)	38	CY
		Sidewalk (City Funded)	5	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 81+30 to 81+49 (City Funded)	16	TON
550	0106	7IN REINF CONCRETE PAVEMENT CL AE		
		Sta 81+28 to 81+47 Lt (City Funded)	22	SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 81+49 to 81+59 (City Funded)	26	SY
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 81+30 to 81+59 Rt (City Funded)	30	LF
		Sta 81+28 to 81+59 Lt (City Funded)	40	LF
750	0030	PIGMENTED IMPRINTED CONCRETE		
		5th Ave W (City Funded)	21	SY
750	0120	SIDEWALK CONCRETE 5IN REINF		
		5th Ave W (City Funded)	46	SY

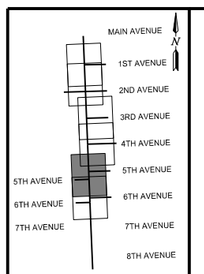


LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.

SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 90+40 to 91+97 (City Funded)	209	CY
		Sidewalk (City Funded)	24	CY
		Driveway (City Funded)	3	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 91+35 to 91+97 (City Funded)	57	TON
550	0106	7IN REINF CONCRETE PAVEMENT CL AE		
		Sta 90+57 to 91+21 Lt (City Funded)	79	SY
		Sta 91+34 to 91+76 Lt (City Funded)	83	SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 90+40 to 91+35 (City Funded)	229	SY
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 90+40 to 91+75 Lt (City Funded)	134	LF
		Sta 90+40 to 91+89 Rt (City Funded)	171	LF
748	0520	CURB-TYPE I		
		Sta 90+41 to 90+48 Rt	8	LF
748	1080	VALLEY GUTTER-TYPE I 48IN		
		Sta 90+50 to 91+22 Lt (City Funded)	35	SY
		Sta 91+35 to 91+76 (City Funded)	18	SY
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 90+40 to 91+02 Rt (City Funded)	26	SY
		Sta 90+40 to 91+32 Lt (City Funded)	61	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 90+62 to 91+06 Rt (City Funded)	19	SY
		Sta 91+78 to 91+94 Lt (City Funded)	11	SY
750	0120	SIDEWALK CONCRETE 5IN REINF		
		Sta 90+40 to 90+54 Rt (City Funded)	6	SY
		Sta 90+40 to 91+32 Lt (City Funded)		
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED		
		Sta 91+01 to 91+29 Rt (City Funded)	23	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 91+31 36.2' Lt (City Funded)	12.0	SF
		Sta 91+80 36.0' Lt (City Funded)	12.0	SF



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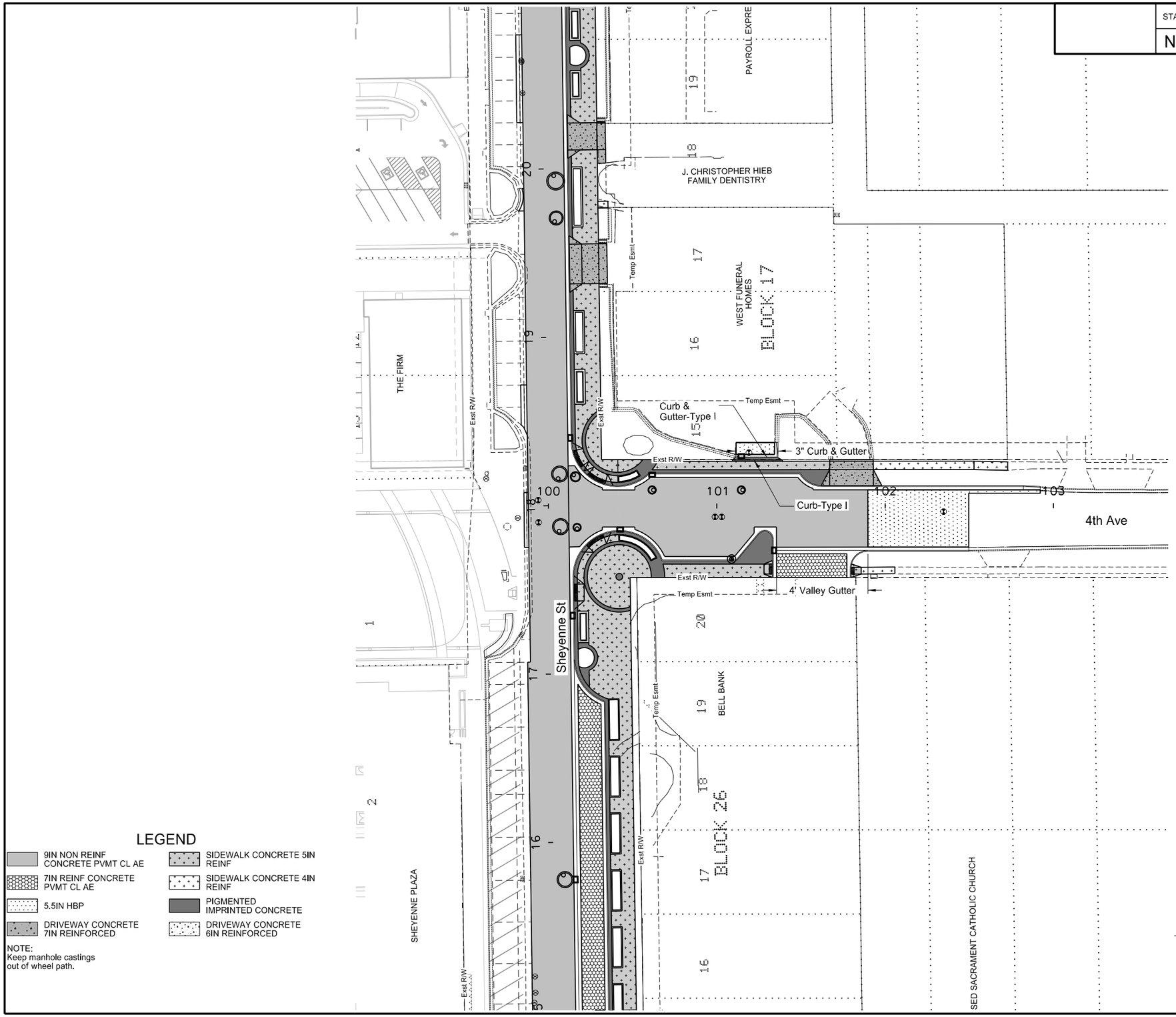
5th Ave

Paving Layout

Sta 80+00 to Sta 82+00 (PR5TH_W)
Sta 90+00 to Sta 92+00 (PR5TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	8

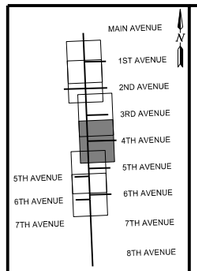
SPEC	CODE	BID ITEM	QTY UNIT
302	0121	AGGREGATE BASE COURSE CL 5	
		Sta 100+42 to 102+92	314 CY
		Sidewalk	39 CY
		Driveways	6 CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	
		Sta 101+90 to 102+92	72 TON
		Sta 101+11 to 101+34 Lt	5 TON
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED	
		Sta 100+42 to 101+90	624 SY
748	0190	CURB & GUTTER-TYPE I 30IN	
		Sta 100+42 to 102+50 Rt	204 LF
		Sta 100+42 to 102+92 Lt	255 LF
748	0140	CURB & GUTTER-TYPE I	
		Sta 101+11 to 101+36 Lt	32 LF
748	0520	CURB-TYPE I	
		Sta 101+09 to 101+39 Lt	30 LF
748	1080	VALLEY GUTTER-TYPE I 48IN	
		Sta 101+35 to 101+83 Rt	23 SY
750	0030	PIGMENTED IMPRINTED CONCRETE	
		Sta 100+42 to 101+33 Rt	62 SY
		Sta 100+42 to 101+67 Lt	48 SY
		Sta 101+09 to 101+39 Lt	5 SY
750	0115	SIDEWALK CONCRETE 4IN	
		Sta 101+80 to 102+06 Rt	13 SY
		Sta 101+93 to 102+73 Lt	45 SY
750	0120	SIDEWALK CONCRETE 5IN REINF	
		Sta 100+42 to 101+33 Rt	109 SY
		Sta 100+42 to 101+67 Lt	66 SY
750	1000	DRIVEWAY CONCRETE	
		Sta 101+62 to 101+98 Lt	50 SY
750	2115	DETECTABLE WARNING PANELS	
		Sta 101+32 36.2' Rt	12.0 SF
		Sta 101+81 37.1' Rt	8.0 SF



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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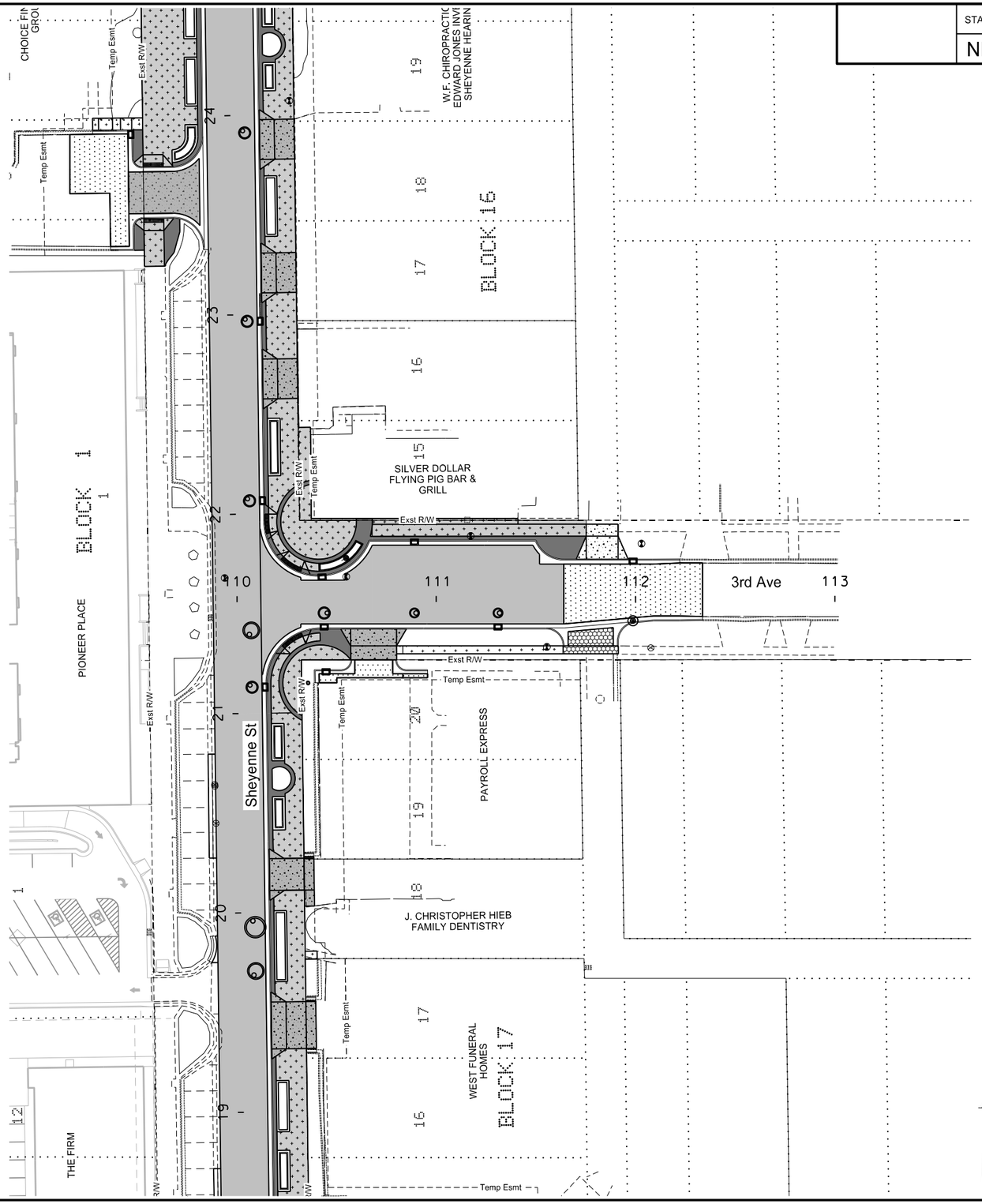
4th Ave

Paving Layout

Sta 100+00 to sta 103+00 (PR4TH)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	9

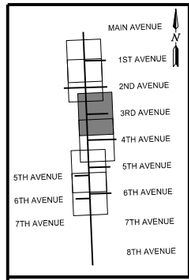


SPEC	CODE	BID ITEM	QTY UNIT
302	0121	AGGREGATE BASE COURSE CL 5	
		Sta 110+68 to 112+34 (City Funded)	226 CY
		Sidewalk (City Funded)	17 CY
		Driveways (City Funded)	8 CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	
		Sta 111+64 to 112+34 (City Funded)	65 TON
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	
		Sta 111+63 to 111+91 Rt (City Funded)	33 SY
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED	
		Sta 110+68 to 111+64 (City Funded)	408 SY
748	0190	CURB & GUTTER-TYPE I 30IN	
		Sta 110+68 to 112+22 Lt (City Funded)	158 LF
		Sta 110+85 to 112+34 Rt (City Funded)	68 LF
		Sta 111+90 to 112+34 Rt (City Funded)	52 LF
748	1080	VALLEY GUTTER-TYPE I 48IN	
		Sta 111+55 to 112+00 Rt (City Funded)	74 SY
750	0030	PIGMENTED IMPRINTED CONCRETE	
		Sta 110+97 to 111+75 Lt (City Funded)	43 SY
750	0115	SIDEWALK CONCRETE 4IN	
		Sta 110+80 to 111+64 Rt (City Funded)	36 SY
750	0120	SIDEWALK CONCRETE 5IN REINF	
		Sta 110+97 to 111+75 Lt (City Funded)	72 SY
750	1000	DRIVEWAY CONCRETE	
		Sta 111+59 to 111+96 Rt (City Funded)	34 SY
		Sta 111+70 to 111+96 Lt (City Funded)	38 SY

LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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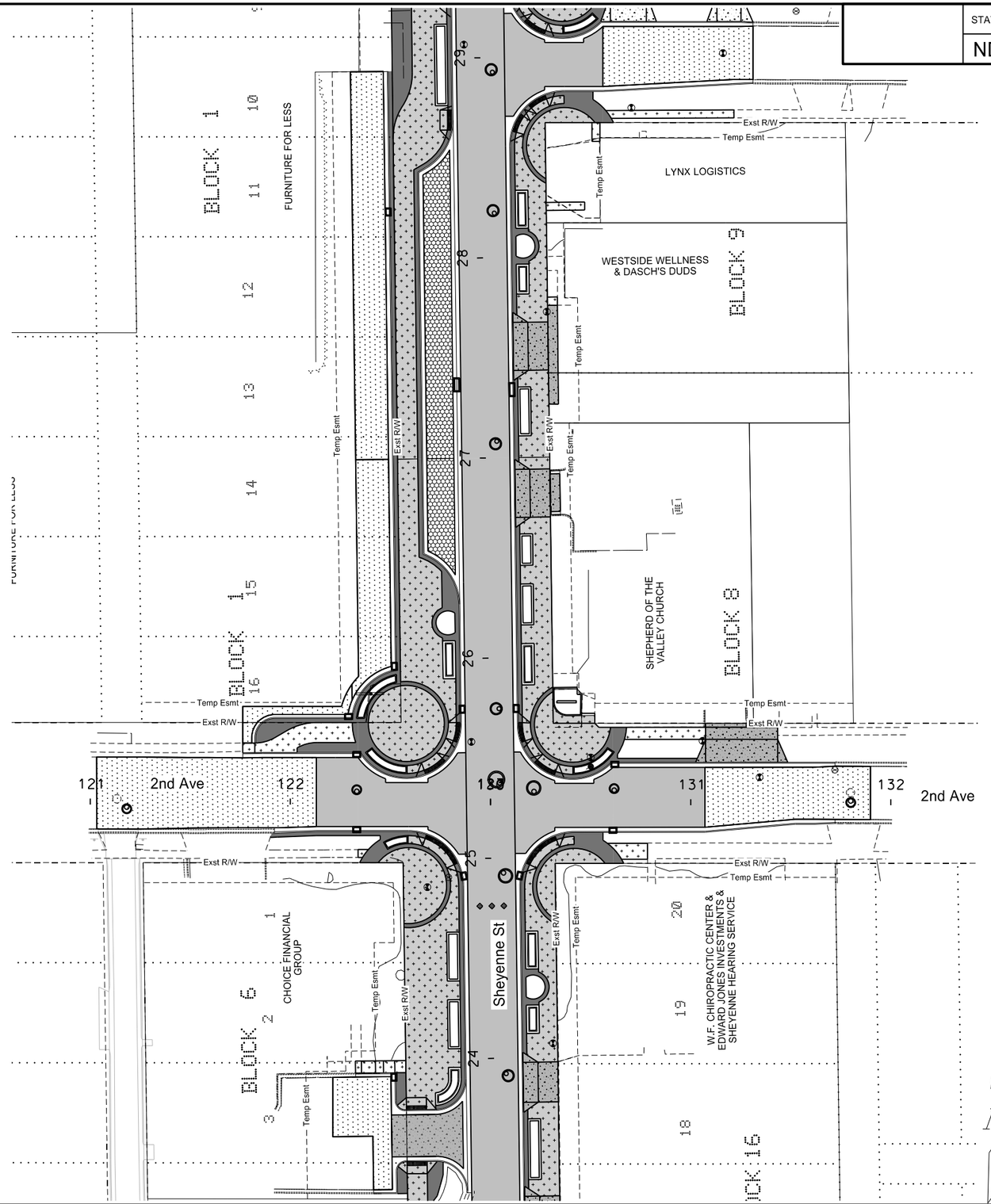
3rd Ave & Choice Bank

Paving Layout

Sta 110+00 to Sta 113+00 (PR3RD)
Sta 151+00 to Sta 152+00 (PRCHOICE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	10

SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 121+03 to 122+34 (City Funded)	151	CY
		Sidewalk (City Funded)	12	CY
		Sta 121+76 to 122+31 Lt (City Funded)	4	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 121+03 to 122+13 (City Funded)	89	TON
		Sta 121+76 to 122+31 Lt (City Funded)	11	TON
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 122+13 to 122+34 (City Funded)	80	SY
748	0140	CURB & GUTTER-TYPE I		
		Sta 121+82 to 122+30 Lt (City Funded)	57	LF
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 121+92 to 122+33 Rt (City Funded)	42	LF
		Sta 121+76 to 122+33 Lt (City Funded)	56	LF
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 121+90 to 122+34 Lt (City Funded)	45	SY
		Sta 121+92 to 122+34 Rt (City Funded)	10	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 121+76 to 122+33 Lt (City Funded)	51	SY

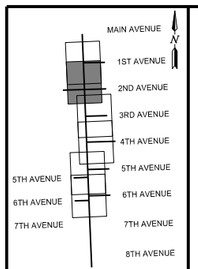


SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 130+61 to 131+90 (City Funded)	153	CY
		Sidewalk (City Funded)	7	CY
		Driveway (City Funded)	8	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 131+07 to 131+90 (City Funded)	76	TON
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 130+61 to 131+07 (City Funded)	153	SY
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 130+61 to 131+72 Rt (City Funded)	111	LF
		Sta 130+61 to 131+72 Lt (City Funded)	111	LF
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 130+61 to 130+66 Rt (City Funded)	2	SY
		Sta 130+61 to 131+03 Lt (City Funded)	18	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 130+58 to 130+78 Rt (City Funded)	15	SY
		Sta 130+67 to 131+07 Lt (City Funded)	27	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 131+02 to 131+48 Lt (City Funded)	76	SY

LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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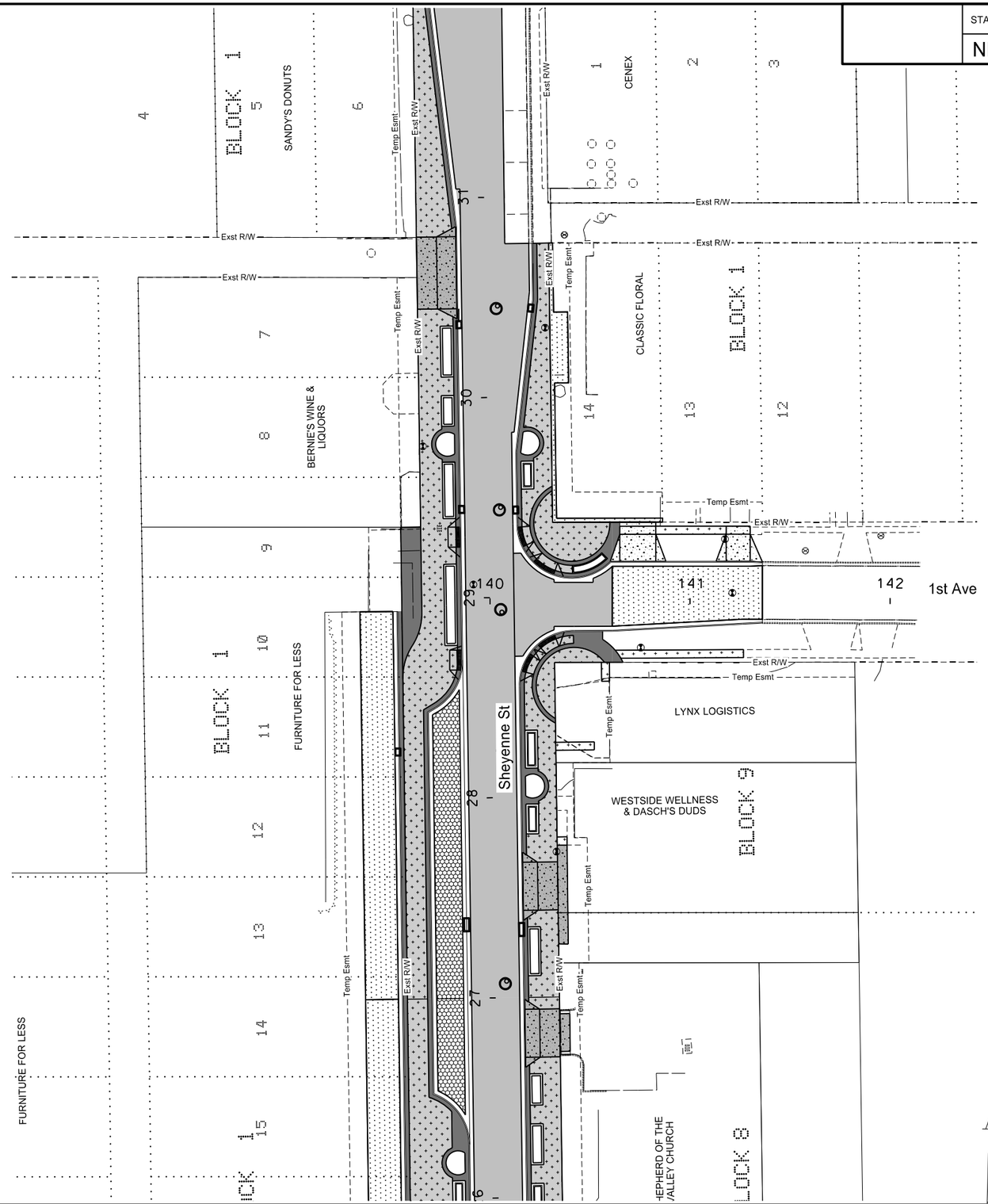
2nd Ave & Furniture for Less

Paving Layouts

Sta 121+00 to Sta 123+00 (PR2ND_W)
Sta 130+00 to Sta 132+00 (PR2ND_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	90	11

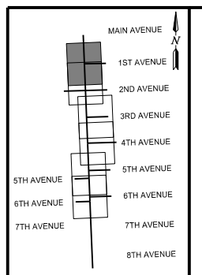
SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 140+61 to 141+36 (City Funded)	94	CY
		Sidewalk (City Funded)	9	CY
		Driveway (City Funded)	9	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 140+61 to 141+36 (City Funded)	71	TON
		Sta 140+61 to 140+86 Lt (City Funded)	2	TON
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 140+61 to 141+36 Rt (City Funded)	75	LF
		Sta 140+61 to 141+36 Lt (City Funded)	75	LF
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 140+61 to 140+67 Rt (City Funded)	3	SY
		Sta 130+61 to 131+03 Lt (City Funded)	19	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 140+62 to 141+27 Rt (City Funded)	29	SY
		Sta 140+83 to 141+18 Lt(City Funded)	31	SY
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED		
		Sta 140+60 to 140+88 Lt (City Funded)	46	SY
		Sta 141+13 to 141+36 (City Funded)	34	SY



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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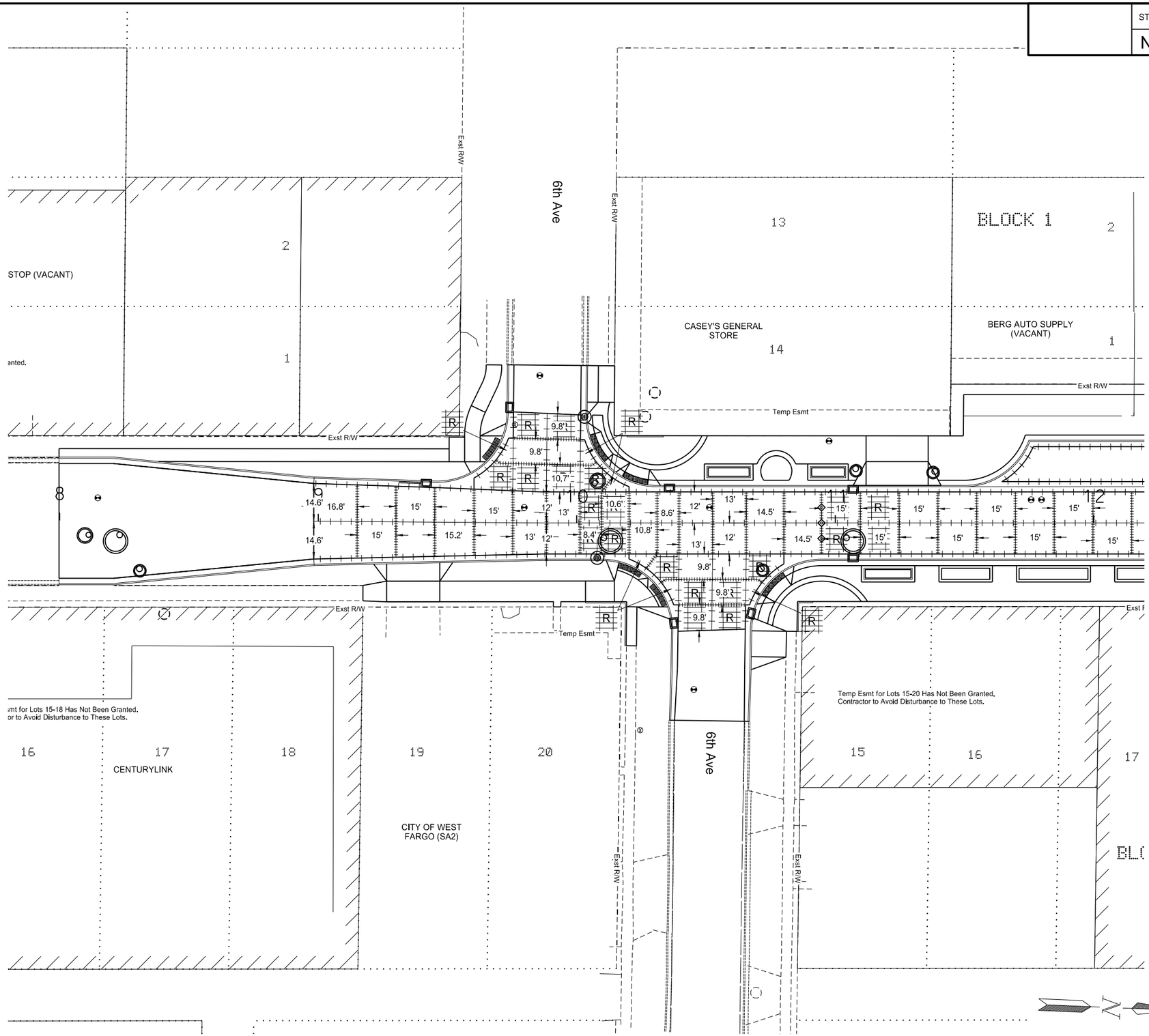
1st Ave

Paving Layout

Sta 140+00 to sta 142+00 (PR1ST)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	12



LEGEND

- R — PAVEMENT REINFORCEMENT
- DOWELED JOINT
- TIED JOINT W/ HOT POUR SEAL
- UNTIED JOINT
- • 2" CORE HOLE

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Sheyenne Street

Paving Layouts

Sta 8+00 to Sta 12+00 (PRSHEYENNE)

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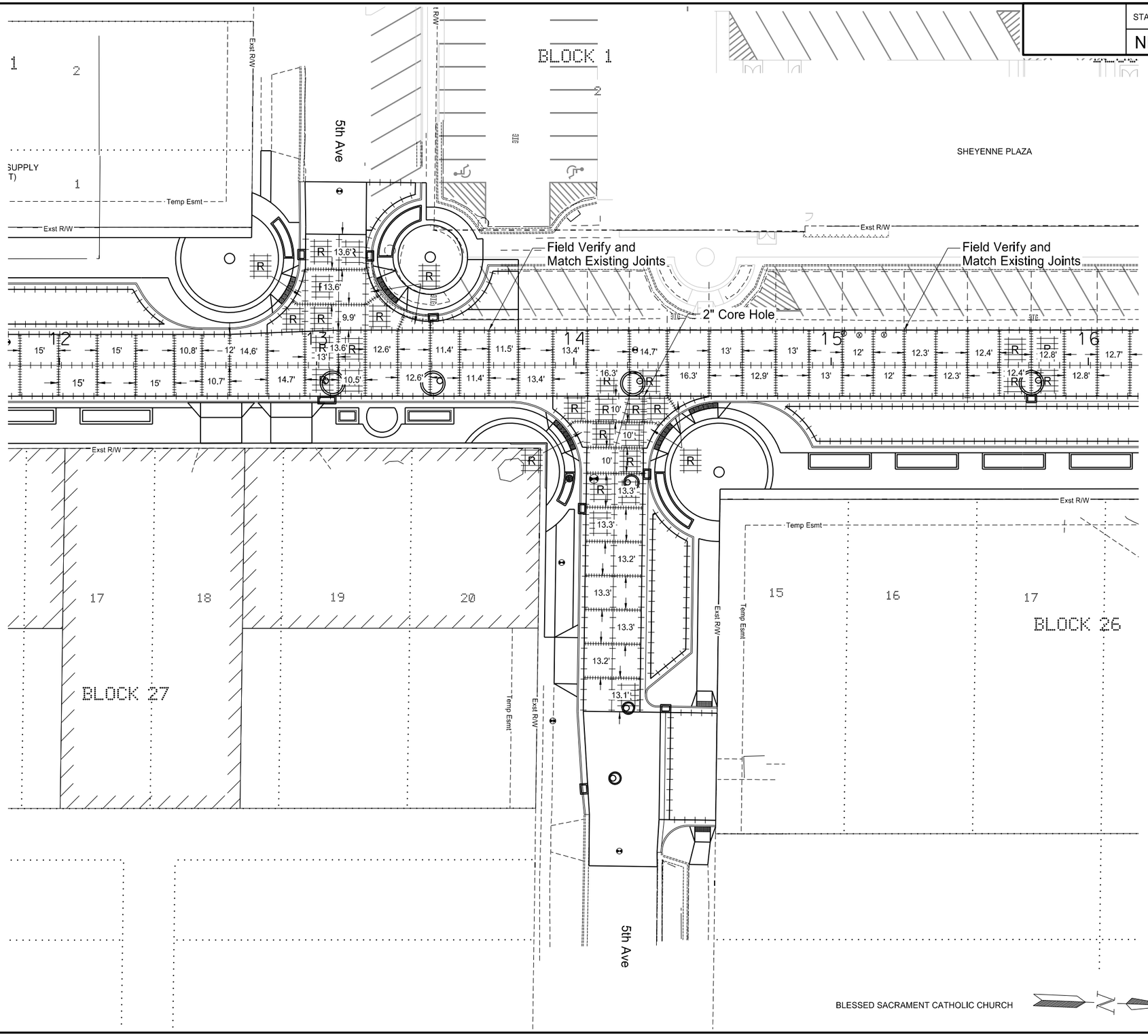
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	13



LEGEND

- PAVEMENT REINFORCEMENT
- DOWELED JOINT
- TIED JOINT W/ HOT POUR SEAL
- UNTIED JOINT
- 2" CORE HOLE

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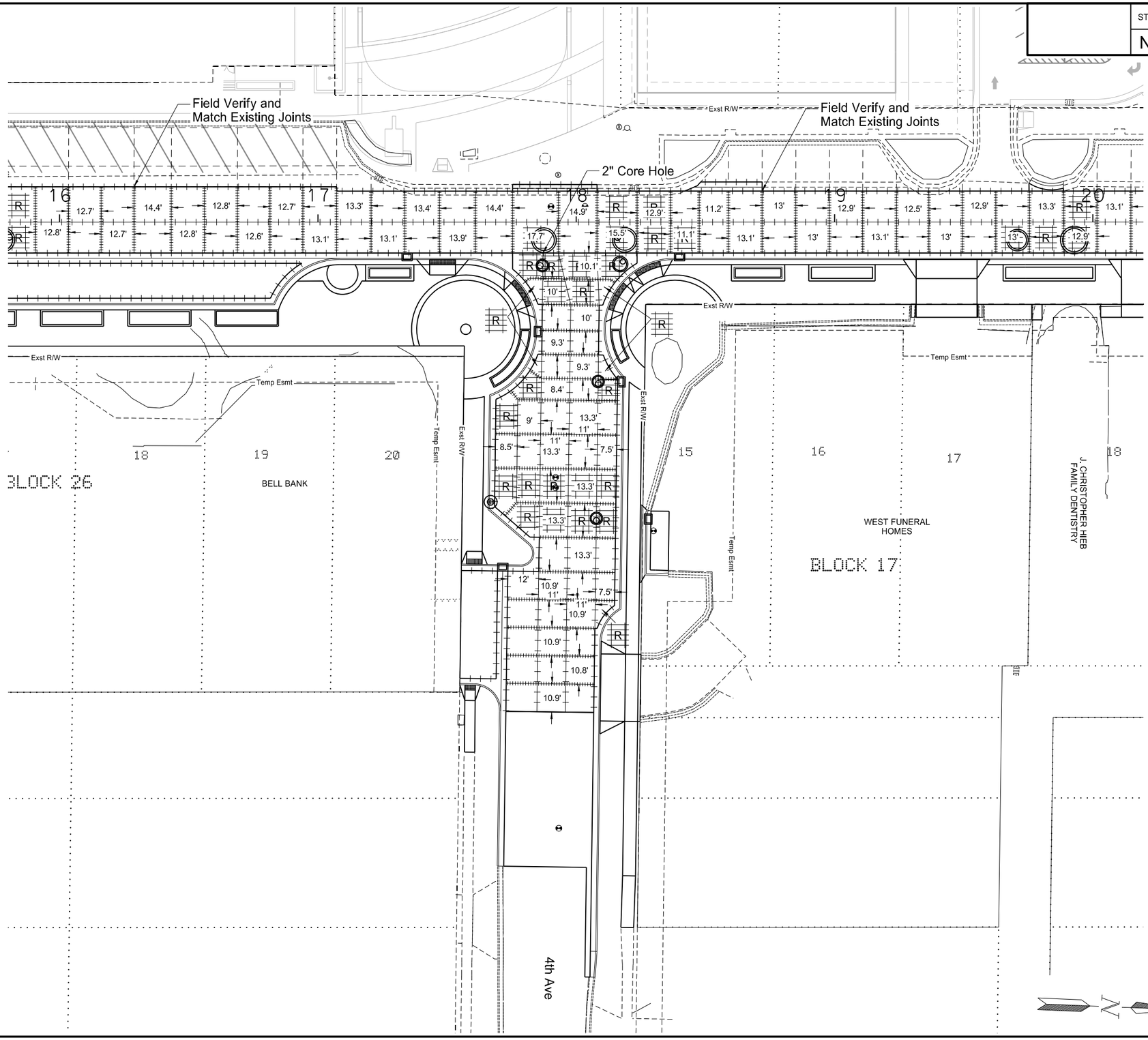
Sheyenne Street

Paving Layouts

Sta 12+00 to Sta 16+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	14



LEGEND

- PAVEMENT REINFORCEMENT
- DOWELED JOINT
- TIED JOINT W/ HOT POUR SEAL
- UNTIED JOINT
- 2" CORE HOLE

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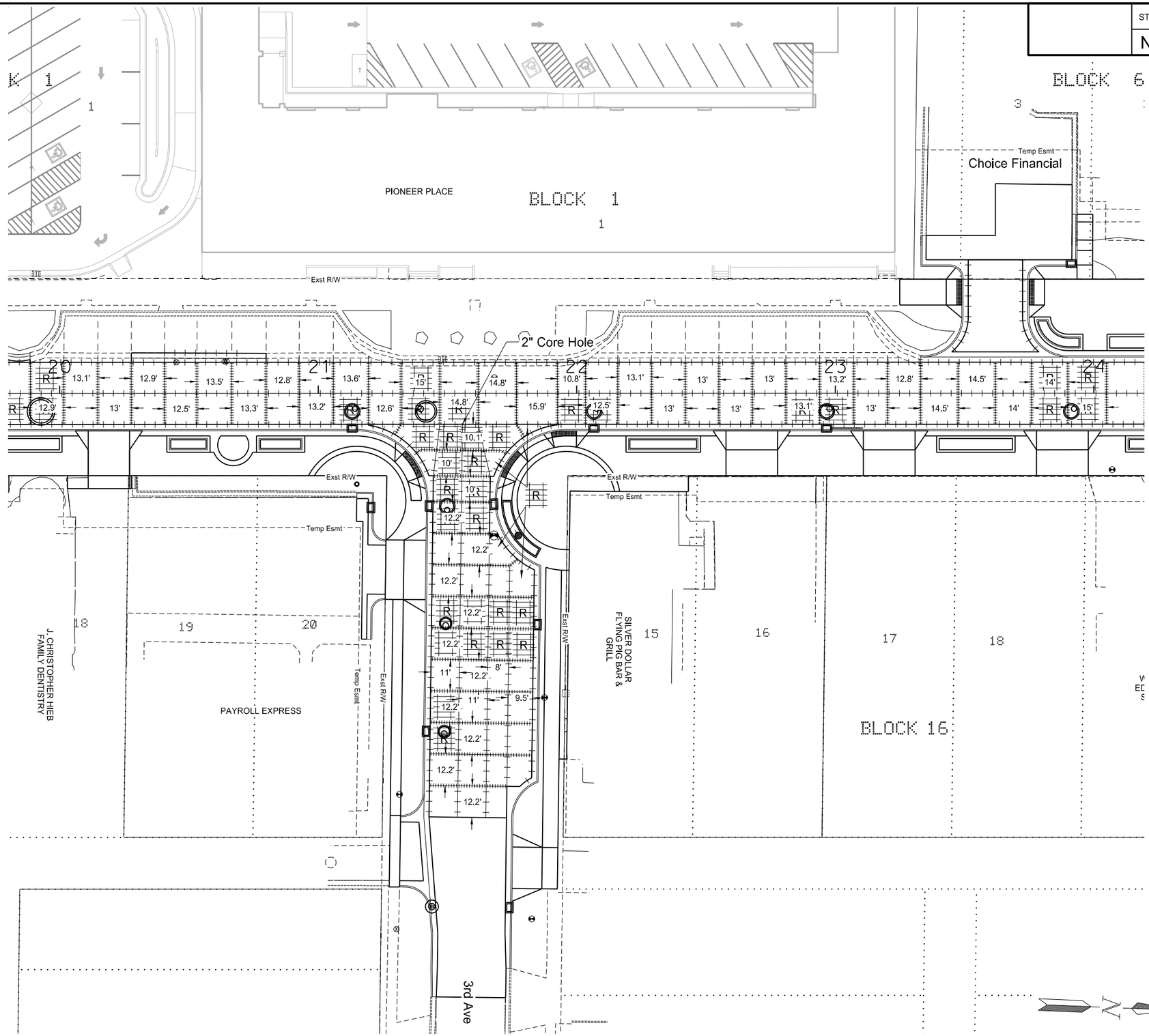
Sheyenne Street

Paving Layouts

Sta 16+00 to Sta 20+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	15



LEGEND

- PAVEMENT REINFORCEMENT
- DOWELED JOINT
- TIED JOINT W/ HOT POUR SEAL
- UNTIED JOINT
- 2" CORE HOLE

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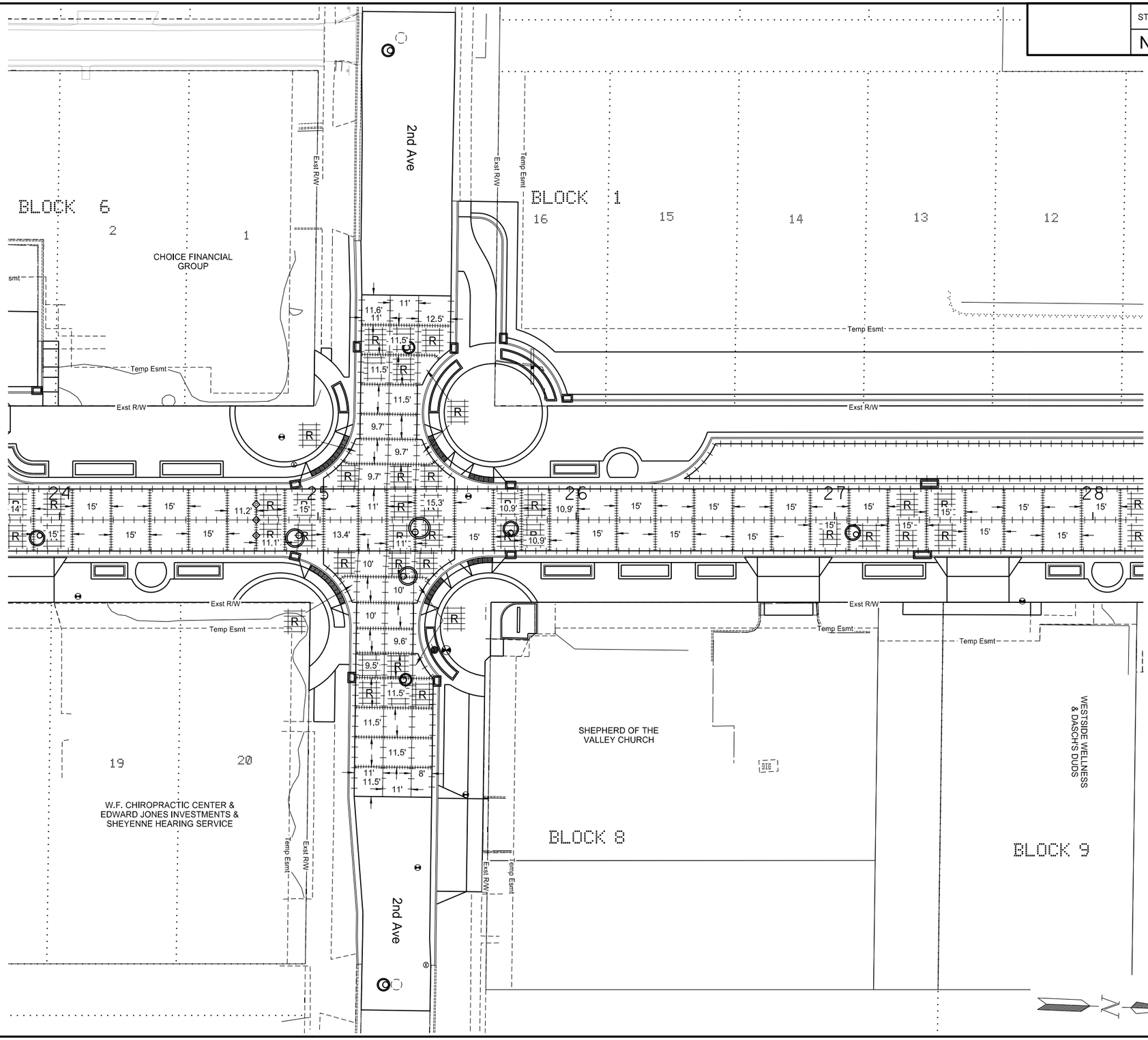
Sheyenne Street

Paving Layouts

Sta 20+00 to Sta 24+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	16


BLOCK 6
BLOCK 1
CHOICE FINANCIAL GROUP
2nd Ave
Exst R/W
Temp Esmt
Temp Esmt
Exst R/W
Exst R/W
Temp Esmt
Exst R/W
Temp Esmt
Exst R/W
Temp Esmt
Temp Esmt
Exst R/W
Temp Esmt
Exst R/W
Temp Esmt
Exst R/W

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	17

LEGEND

- PAVEMENT REINFORCEMENT
- DOWELED JOINT
- TIED JOINT W/ HOT POUR SEAL
- UNTIED JOINT
- 2" CORE HOLE

BLOCK 1

12 11 10 9 8 7

FURNITURE FOR LESS

BERNIE'S WINE & LIQUORS

4

BLOCK 1

5

SANDY'S DONUTS

6

Exst R/W

Temp Esmt

28 29 30 31 32

14

CLASSIC FLORAL

13

BLOCK 1

12

1

CENEX

2

3

WESTSIDE WELLNESS & DASCH'S DUDS

LYNX LOGISTICS

1st Ave

Field Verify and Match Existing Joints

U.S. Hwy No. 10 & 52 - Main Ave W

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Sheyenne Street

Paving Layouts

Sta 28+00 to Sta 33+00 (PRSHEYENNE)

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE						35	
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES						28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)						18	
G20-2-48	48"x24"	END ROAD WORK						26	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)						18	
G20-10-108	108"x48"	CONTRACTOR SIGN						70	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS						43	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW						36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $80 WHEN WORKERS PRESENT						59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)						10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)						10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)						10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)						7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)						7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)						7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)						7	
M4-4a-24	**24"x24"**	**END DETOUR**	**2**	**2**	**2**		**2**	**10**	**20**
M4-8-24	**24"x12"**	**DETOUR (Mounted on route marker post)**	**18**	**18**	**18**		**18**	**7**	**126**
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT						15	
M4-10-48	**48"x18"**	**DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)**	**1**	**1**	**1**		**1**	**7**	**7**
M5-1-21	**21"x15"**	**ADVANCE TURN ARROW RT or LT(Mounted on route marker post)**	**8**	**8**	**8**		**8**	**7**	**56**
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)						9	
M6-1-21	**21"x15"**	**DIRECTIONAL ARROW RT or LT (Mounted on route marker post)**	**8**	**8**	**8**		**8**	**7**	**56**
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)						9	
M6-3-21	**21"x15"**	**DIRECTIONAL ARROW UP (Mounted on route marker post)**	**2**	**2**	**2**		**2**	**7**	**14**
R1-1-48	**48"x48"**	**STOP**	**2**	**2**	**2**		**2**	**32**	**64**
R1-2-60	60"x60"	YIELD						29	
R2-1-36	36"x48"	SPEED LIMIT __ (Portable only)						30	
R2-1-48	48"x60"	SPEED LIMIT __						39	
R2-1aP-24	24"x18"	MINIMUM FEE $80 (Mounted on Speed Limit post)						10	
R3-2-48	48"x48"	NO LEFT TURN						35	
R4-1-48	48"x60"	DO NOT PASS						39	
R4-7-48	48"x60"	KEEP RIGHT						39	
R5-1-48	**48"x48"**	**DO NOT ENTER**			**2**		**2**	**35**	**70**
R6-1-54	**54"x18"**	**ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)**			**1**		**1**	**14**	**14**
R7-1-12	12"x18"	NO PARKING ANY TIME						11	
R9-9-24	**24"x12"**	**SIDEWALK CLOSED (Mounted on barricade)**	**14**	**10**	**10**		**14**	**3**	**42**
R10-6-24	24"x36"	STOP HERE ON RED						16	
R11-2-48	**48"x30"**	**ROAD CLOSED (Mounted on barricade)**	**7**	**5**	**1**		**7**	**12**	**84**
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)						12	
R11-3a-60	60"x30"	ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)						15	
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)						15	
R11-4a-60	**60"x30"**	**STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)**	**6**	**5**	**4**		**6**	**15**	**90**
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT						35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT						35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT						35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW						26	
W3-1-48	48"x48"	STOP AHEAD						35	
W3-1a-48	**48"x48"**	**STOP SIGN AHEAD**	**2**	**2**	**2**		**2**	**35**	**70**
W3-3-48	48"x48"	SIGNAL AHEAD						35	
W3-4-48	48"x48"	BE PREPARED TO STOP						35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD						35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT						35	
W4-3-48	48"x48"	ADDED LANE						35	
W4-5-24	**24"x12"**	**TO (Mounted on route marker post)**	**21**	**21**	**21**		**21**	**7**	**147**
W5-1-48	48"x48"	ROAD NARROWS						35	
W5-4-48	48"x48"	RAMP NARROWS						35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE						35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW						35	
W6-3-48	48"x48"	TWO WAY TRAFFIC						35	
W8-1-48	**48"x48"**	**BUMP**	**2**	**2**	**2**		**2**	**35**	**70**
W8-3-48	48"x48"	PAVEMENT ENDS						35	
W8-7-48	48"x48"	LOOSE GRAVEL						35	
W8-11-48	48"x48"	UNEVEN LANES						35	
W8-12-48	48"x48"	NO CENTER LINE						35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL						35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY						35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT or _ MILE						35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT or _ MILE						35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY						35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL						35	
W12-2-48	48"x48"	LOW CLEARANCE						35	
W13-1P-30	30"x30"	__ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)						14	
W13-4-36	36"x36"	ON RAMP						15	
W14-3-64	64"x48"	NO PASSING ZONE						28	
W16-2P-30	30"x24"	__ FEET PLAQUE (Mounted on warning sign post)						10	
W16-9p-30	**30"x18"**	**AHEAD (Mounted on pedestrian sign post)**	**7**	**4**	**4**		**7**	**11**	**77**
W20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE						35	
W20-2-48	**48"x48"**	**DETOUR AHEAD or __ FT or _ MILE**	**4**	**8**	**4**		**8**	**35**	**280**
W20-3-48	**48"x48"**	**ROAD or STREET CLOSED AHEAD or __ FT or _ MILE**	**4**	**2**	**1**		**4**	**35**	**140**
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or __ FT or _ MILE						35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or __ FT or _ MILE						35	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W20-7-48	**48"x48"**	**FLAGGER**	**2**	**2**	**2**		**2**	**35**	**70**
W20-8-18	**18"x18"**	**STOP - SLOW PADDLE Back to Back**	**2**	**2**	**2**		**2**	**5**	**10**
W20-52P-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)						12	
W21-1-48	48"x48"	WORKERS						35	
W21-2-48	48"x48"	FRESH OIL						35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or _ MILE						35	
W21-5-48	48"x48"	SHOULDER WORK						35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED						35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE						35	
W21-6-48	48"x48"	SURVEY CREW						35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT						35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY						35	
W21-52-48	48"x48"	PAVEMENT BREAKS						35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD						35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK						35	

SPECIAL SIGNS

CONSIGN 1	**36"X24"**	**SHEYENNE ST LOCAL BUSINESS ACCESS ARROW LEFT**	**2**	**1**	**1**		**2**	**16**	**32**
CONSIGN 2	**36"X24"**	**SHEYENNE ST LOCAL BUSINESS ACCESS ARROW RIGHT**	**1**	**3**	**2**		**3**	**16**	**48**
CONSIGN 3	**36"X18"**	**SHEYENNE PLAZA CASEY'S ARROW LEFT**	**2**				**2**	**15**	**30**
CONSIGN 4	**36"X18"**	**SHEYENNE PLAZA CASEY'S ARROW RIGHT**	**2**				**2**	**15**	**30**
CONSIGN 5	**36"X18"**	**CASEY'S ARROW LEFT**	**1**				**1**	**15**	**15**
CONSIGN 6	**36"X18"**	**CASEY'S ARROW RIGHT**	**1**				**1**	**15**	**15**
CONSIGN 7	**36"X18"**	**SHEYENNE PLAZA ARROW LEFT**	**1**				**1**	**15**	**15**
CONSIGN 8	**36"X18"**	**SHEYENNE PLAZA ARROW RIGHT**	**1**				**1**	**15**	**15**
CONSIGN 9	**36"X18"**	**PIONEER PLACE CHOICE BANK ARROW LEFT**		**1**	**1**		**1**	**15**	**15**
CONSIGN 10	**36"X18"**	**PIONEER PLACE CHOICE BANK ARROW RIGHT**		**1**	**1**		**1**	**15**	**15**
CONSIGN 11	**36"X18"**	**CHOICE BANK ARROW LEFT**		**1**	**1**		**1**	**15**	**15**
CONSIGN 12	**36"X18"**	**CHOICE BANK ARROW RIGHT**		**1**	**1**		**1**	**15**	**15**
CONSIGN 13	**36"X18"**	**PIONEER PLACE ARROW LEFT**		**1**	**2**		**2**	**15**	**30**
CONSIGN 14	**36"X18"**	**PIONEER PLACE ARROW RIGHT**		**1**	**2**		**2**	**15**	**30**
CONSIGN 15	**36"X18"**	**SILVER DOLLAR ARROW LEFT**		**1**	**1**		**1**	**15**	**15**

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS 1842**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY BY PHASE NO. 1	2	3		TOTAL QUANTITY
302-0120	**AGGREGATE BASE COURSE CL 5**	TON	**65**				**65**
430-0500	**COMMERCIAL GRADE HOT MIX ASPHALT**	TON	**65**				**65**
704-0100	**FLAGGING**	MHR	**100**	**100**	**100**		**300**
704-1048	PORTABLE RUMBLE STRIPS	EACH					
704-1050	TYPE I BARRICADES	EACH					
704-1052	**TYPE III BARRICADES**	EACH	**30**	**30**	**16**		**30**
704-1054	**SIDEWALK BARRICADE**	EA	**24**	**16**	**10**		**24**
704-1056	**PEDESTRIAN CHANNELIZATION**	LF	**500**				**500**
704-1060	**DELINEATOR DRUMS**	EACH	**27**	**25**	**57**		**57**
704-1065	TRAFFIC CONES	EACH					
704-1067	TUBULAR MARKERS	EACH					
704-1070	DELINEATOR	EACH					
704-1072	FLEXIBLE DELINEATORS	EACH					
704-1080	STACKABLE VERTICAL PANELS	EACH					
704-1081	VERTICAL PANELS - BACK TO BACK	EACH					
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH					
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH					
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH					
704-1500	OBLITERATION OF PVMT MK	SF					
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF					
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH					
704-4011	**PORTABLE CHANGEABLE MESSAGE SIGN**	EA	**2**				**2**
762-0200	RAISED PAVEMENT MARKERS	EACH					
762-0420	SHORT TERM 4IN LINE - TYPE R	LF					
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF					

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
http://www.dot.nd.gov/

This document was originally issued and sealed by James D. Jackson, Registration Number PE-9469, on 8/15/20 and the original document is stored at the City of West Fargo.

Traffic Control Devices List

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	2

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE						35	
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES						28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)						18	
G20-2-48	48"x24"	END ROAD WORK						26	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)						18	
G20-10-108	108"x48"	CONTRACTOR SIGN						70	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS						43	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW						36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $80 WHEN WORKERS PRESENT						59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)						10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)						10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)						10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)						7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)						7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)						7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)						7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)						7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT						15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)						7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)						7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)						9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)						7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)						9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)						7	
R1-1-48	48"x48"	STOP						32	
R1-2-60	60"x60"	YIELD						29	
R2-1-36	36"x48"	SPEED LIMIT __ (Portable only)						30	
R2-1-48	48"x60"	SPEED LIMIT __						39	
R2-1aP-24	24"x18"	MINIMUM FEE $80 (Mounted on Speed Limit post)						10	
R3-2-48	48"x48"	NO LEFT TURN						35	
R4-1-48	48"x60"	DO NOT PASS						39	
R4-7-48	48"x60"	KEEP RIGHT						39	
R5-1-48	48"x48"	DO NOT ENTER						35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)						14	
R7-1-12	12"x18"	NO PARKING ANY TIME						11	
R10-6-24	24"x36"	STOP HERE ON RED						16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)						12	
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)						12	
R11-3a-60	60"x30"	ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)						15	
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)						15	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)						15	
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT						35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT						35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT						35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW						26	
W3-1-48	48"x48"	STOP AHEAD						35	
W3-3-48	48"x48"	SIGNAL AHEAD						35	
W3-4-48	48"x48"	BE PREPARED TO STOP						35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD						35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT						35	
W5-1-48	48"x48"	ROAD NARROWS						35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE						35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW						35	
W6-3-48	48"x48"	TWO WAY TRAFFIC						35	
W8-1-48	48"x48"	BUMP						35	
W8-3-48	48"x48"	PAVEMENT ENDS						35	
W8-7-48	48"x48"	LOOSE GRAVEL						35	
W8-11-48	48"x48"	UNEVEN LANES						35	
W8-12-48	48"x48"	NO CENTER LINE						35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL						35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY						35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT or _ MILE						35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT or _ MILE						35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY						35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL						35	
W12-2-48	48"x48"	LOW CLEARANCE						35	
W13-1P-30	30"x30"	__ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)						14	
W14-3-64	64"x48"	NO PASSING ZONE						28	
W16-2P-30	30"x24"	__ FEET PLAQUE (Mounted on warning sign post)						10	
W20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE						35	
W20-2-48	48"x48"	DETOUR AHEAD or __ FT or _ MILE						35	
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or __ FT or _ MILE						35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or __ FT or _ MILE						35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or __ FT or _ MILE						35	
W20-7-48	48"x48"	FLAGGER						35	
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back						5	
W20-52P-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)						12	
W21-1-48	48"x48"	WORKERS						35	
W21-2-48	48"x48"	FRESH OIL						35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or _ MILE						35	
W21-5-48	48"x48"	SHOULDER WORK						35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED						35	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE						35	
W21-6-48	48"x48"	SURVEY CREW						35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT						35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY						35	
W21-52-48	48"x48"	PAVEMENT BREAKS						35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD						35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK						35	

SPECIAL SIGNS

CONSIGN 16	**36"X18"**	**SILVER DOLLAR ARROW RIGHT**		**1**	**1**		**1**	**15**	**15**
CONSIGN 17	**36"X18"**	**WF CHIRO CENTER ARROW LEFT**		**1**	**3**		**3**	**15**	**45**
CONSIGN 18	**36"X18"**	**WF CHIRO CENTER ARROW RIGHT**		**1**	**1**		**1**	**15**	**15**
CONSIGN 19	**36"X18"**	**SHEPHERD OF THE VALLEY ARROW LEFT**			**1**		**1**	**15**	**15**
CONSIGN 20	**36"X18"**	**SHEPHERD OF THE VALLEY ARROW RIGHT**			**2**		**2**	**15**	**30**
CONSIGN 21	**36"X18"**	**PETRO SERVE CLASSIC FLORAL ARROW LEFT**			**1**		**1**	**15**	**15**
CONSIGN 22	**36"X18"**	**PETRO SERVE CLASSIC FLORAL ARROW RIGHT**			**1**		**1**	**15**	**15**
CONSIGN 23	**36"X18"**	**LYNX LOGISTICS DASCH'S DUDS ARROW LEFT**			**1**		**1**	**15**	**15**
CONSIGN 24	**36"X18"**	**LYNX LOGISTICS DASCH'S DUDS ARROW RIGHT**			**1**		**1**	**15**	**15**
CONSIGN 25	**36"X18"**	**SANDY'S DONUTS BERNIE'S WINE ARROW LEFT**			**2**		**2**	**15**	**30**
CONSIGN 26	**36"X18"**	**SANDY'S DONUTS BERNIE'S WINE ARROW RIGHT**			**2**		**2**	**15**	**30**
CONSIGN 27	**36"X18"**	**BERNIE'S WIN & LIQUORS ARROW LEFT**			**1**		**1**	**15**	**15**
CONSIGN 28	**36"X18"**	**BERNIE'S WIN & LIQUORS ARROW RIGHT**			**1**		**1**	**15**	**15**
CONSIGN 29	**36"X18"**	**FURNITURE FOR LESS ARROW LEFT**			**3**		**3**	**15**	**45**
CONSIGN 30	**36"X18"**	**FURNITURE FOR LESS ARROW RIGHT**			**1**		**1**	**15**	**15**

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS 330**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY BY PHASE NO. 1	2	3		TOTAL QUANTITY
704-0100	FLAGGING	MHR					
704-1048	PORTABLE RUMBLE STRIPS	EACH					
704-1050	TYPE I BARRICADES	EACH					
704-1052	TYPE III BARRICADES	EACH					
704-1060	DELINEATOR DRUMS	EACH					
704-1065	TRAFFIC CONES	EACH					
704-1067	TUBULAR MARKERS	EACH					
704-1070	DELINEATOR	EACH					
704-1072	FLEXIBLE DELINEATORS	EACH					
704-1080	STACKABLE VERTICAL PANELS	EACH					
704-1081	VERTICAL PANELS - BACK TO BACK	EACH					
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH					
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH					
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH					
704-1500	OBLITERATION OF PVMT MK	SF					
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF					
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH					
762-0200	RAISED PAVEMENT MARKERS	EACH					
762-0420	SHORT TERM 4IN LINE - TYPE R	LF					
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF					

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
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Traffic Control Devices List

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	3

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE						35	
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES						28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)						18	
G20-2-48	48"x24"	END ROAD WORK						26	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)						18	
G20-10-108	108"x48"	CONTRACTOR SIGN						70	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS						43	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW						36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $80 WHEN WORKERS PRESENT						59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)						10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)						10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)						10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)						7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)						7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)						7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)						7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)						7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT						15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)						7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)						7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)						9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)						7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)						9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)						7	
R1-1-48	48"x48"	STOP						32	
R1-2-60	60"x60"	YIELD						29	
R2-1-36	36"x48"	SPEED LIMIT __ (Portable only)						30	
R2-1-48	48"x60"	SPEED LIMIT __						39	
R2-1aP-24	24"x18"	MINIMUM FEE $80 (Mounted on Speed Limit post)						10	
R3-2-48	48"x48"	NO LEFT TURN						35	
R4-1-48	48"x60"	DO NOT PASS						39	
R4-7-48	48"x60"	KEEP RIGHT						39	
R5-1-48	48"x48"	DO NOT ENTER						35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)						14	
R7-1-12	12"x18"	NO PARKING ANY TIME						11	
R10-6-24	24"x36"	STOP HERE ON RED						16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)						12	
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)						12	
R11-3a-60	60"x30"	ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)						15	
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)						15	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)						15	
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT						35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT						35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT						35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW						26	
W3-1-48	48"x48"	STOP AHEAD						35	
W3-3-48	48"x48"	SIGNAL AHEAD						35	
W3-4-48	48"x48"	BE PREPARED TO STOP						35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD						35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT						35	
W5-1-48	48"x48"	ROAD NARROWS						35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE						35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW						35	
W6-3-48	48"x48"	TWO WAY TRAFFIC						35	
W8-1-48	48"x48"	BUMP						35	
W8-3-48	48"x48"	PAVEMENT ENDS						35	
W8-7-48	48"x48"	LOOSE GRAVEL						35	
W8-11-48	48"x48"	UNEVEN LANES						35	
W8-12-48	48"x48"	NO CENTER LINE						35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL						35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY						35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT or _ MILE						35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT or _ MILE						35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY						35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL						35	
W12-2-48	48"x48"	LOW CLEARANCE						35	
W13-1P-30	30"x30"	__ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)						14	
W14-3-64	64"x48"	NO PASSING ZONE						28	
W16-2P-30	30"x24"	__ FEET PLAQUE (Mounted on warning sign post)						10	
W20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE						35	
W20-2-48	48"x48"	DETOUR AHEAD or __ FT or _ MILE						35	
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or __ FT or _ MILE						35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or __ FT or _ MILE						35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or __ FT or _ MILE						35	
W20-7-48	48"x48"	FLAGGER						35	
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back						5	
W20-52P-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)						12	
W21-1-48	48"x48"	WORKERS						35	
W21-2-48	48"x48"	FRESH OIL						35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or _ MILE						35	
W21-5-48	48"x48"	SHOULDER WORK						35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED						35	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE						35	
W21-6-48	48"x48"	SURVEY CREW						35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT						35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY						35	
W21-52-48	48"x48"	PAVEMENT BREAKS						35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD						35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK						35	

SPECIAL SIGNS

CONSIGN 31	**42"x9"**	**SHEYENNE ST**	**18**	**18**	**18**		**18**	**13**	**234**

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS 234**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY BY PHASE NO. 1	2	3		TOTAL QUANTITY
704-0100	FLAGGING	MHR					
704-1048	PORTABLE RUMBLE STRIPS	EACH					
704-1050	TYPE I BARRICADES	EACH					
704-1052	TYPE III BARRICADES	EACH					
704-1060	DELINEATOR DRUMS	EACH					
704-1065	TRAFFIC CONES	EACH					
704-1067	TUBULAR MARKERS	EACH					
704-1070	DELINEATOR	EACH					
704-1072	FLEXIBLE DELINEATORS	EACH					
704-1080	STACKABLE VERTICAL PANELS	EACH					
704-1081	VERTICAL PANELS - BACK TO BACK	EACH					
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH					
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH					
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH					
704-1500	OBLITERATION OF PVMT MK	SF					
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF					
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH					
762-0200	RAISED PAVEMENT MARKERS	EACH					
762-0420	SHORT TERM 4IN LINE - TYPE R	LF					
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF					

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
http://www.dot.nd.gov/

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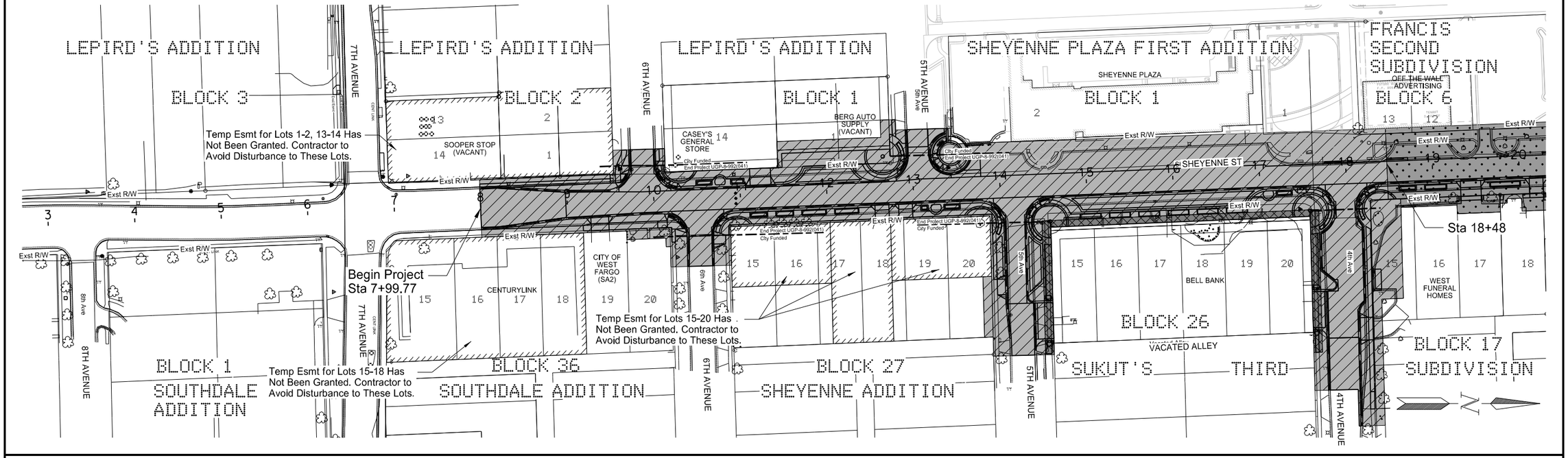
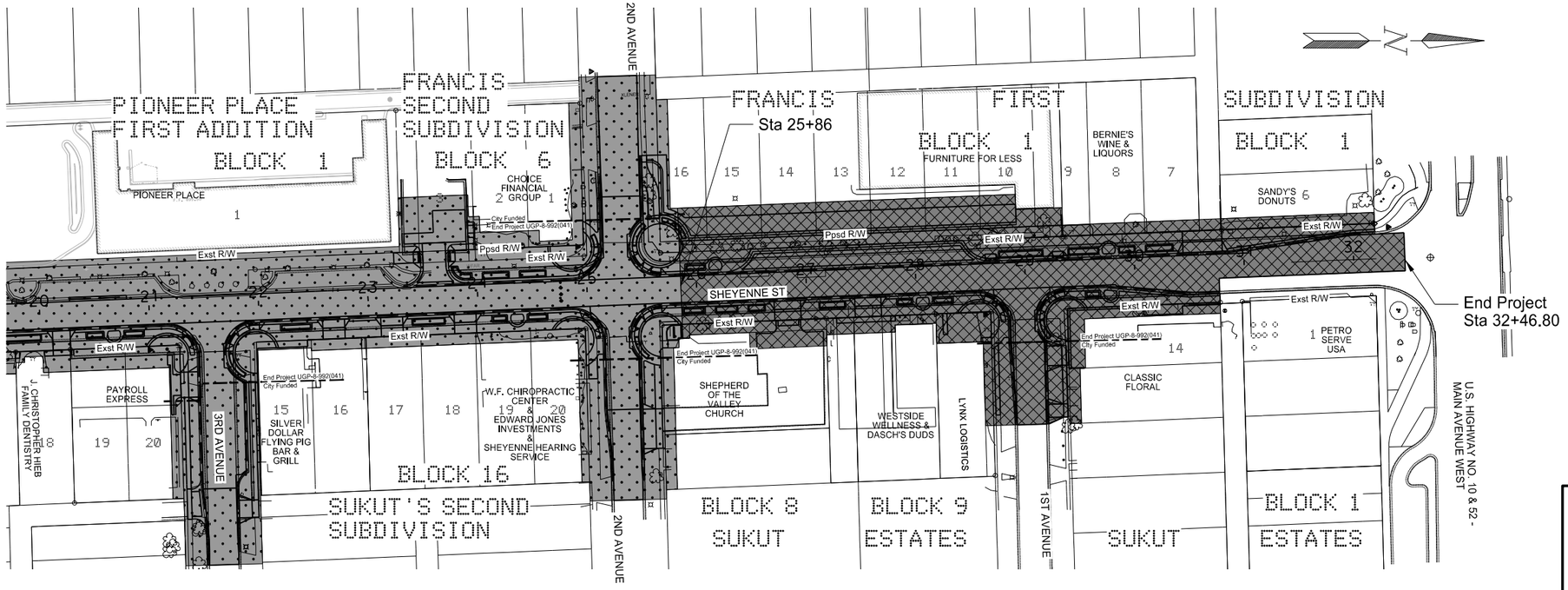
Traffic Control Devices List

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	4





LEGEND

- PHASE 1
- PHASE 2
- PHASE 3

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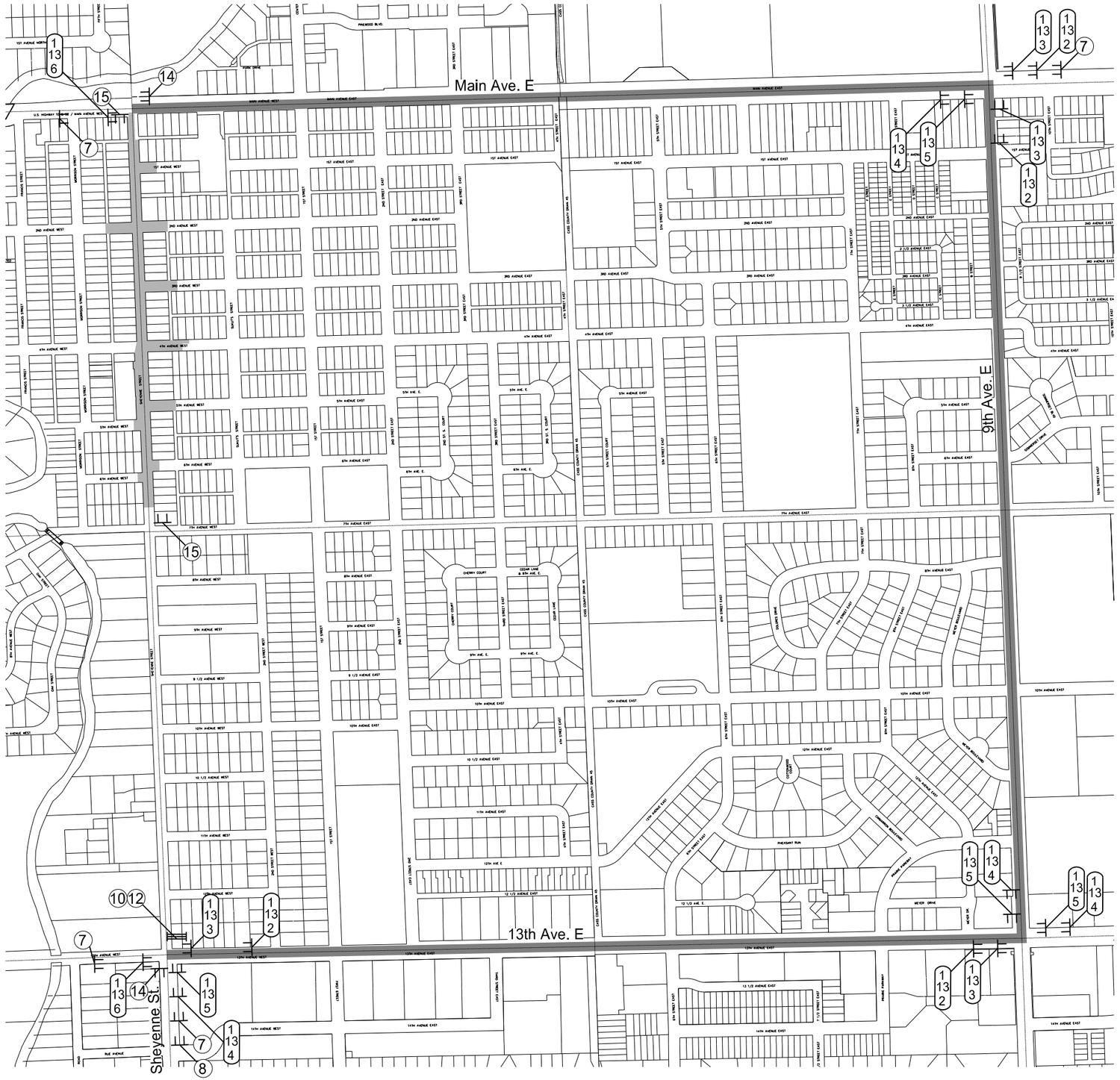
Sheyenne Street

Work Zone Traffic Control

Phasing Overview

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	5



LEGEND

1. DETOUR — M4-8-24
2. M5-1L-21
3. M6-1L-21
4. M5-1R-21
5. M6-1R-21
6. M6-3-21
7. DETOUR XXXX FT — W20-2-48
8. ROAD CLOSED AHEAD — W20-3-48
9. ROAD CLOSED — R11-2-48
10. STREET CLOSED TO THRU TRAFFIC — R11-4-60
11. DETOUR — M4-10(L)-48
12. DETOUR — M4-10(R)-48
13. SHEYENNE ST — CONSIGN 31
14. END DETOUR — M4-8a-24
15. Portable Changable Message Sign

1 3 6 STACK ASSEMBLY TT SIGN

TYPE 3 BARRICADE

SIDEWALK BARRICADE

DETOUR ROUTE

PROJECT LIMITS

N

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Sheyenne Street

Work Zone Traffic Control

Traffic Control Detour - All Phases

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	6



LEGEND

1	ROAD CLOSED	R11-2-48
2	STREET CLOSED TO THRU TRAFFIC	R11-4-60
3	SIDEWALK CLOSED	R9-9-24
4	AHEAD	W16-9p-30
5		W3-1a-48
6	STOP	R1-1-48
7	DETOUR XXXX FT	W20-2-48
8	ROAD CLOSED AHEAD	W20-3-48

9	SHEYENNE ST LOCAL BUSINESS ACCESS ←	CONSIGN 1
10	SHEYENNE ST LOCAL BUSINESS ACCESS →	CONSIGN 2
11	SHEYENNE PLAZA CASEY'S ←	CONSIGN 3
12	SHEYENNE PLAZA CASEY'S →	CONSIGN 4
13	CASEY'S ←	CONSIGN 5
14	CASEY'S →	CONSIGN 6
15	SHEYENNE PLAZA ←	CONSIGN 7
16	SHEYENNE PLAZA →	CONSIGN 8

1 3 6 STACK ASSEMBLY TT SIGN

TYPE 3 BARRICADE

SIDEWALK BARRICADE

WORK AREA

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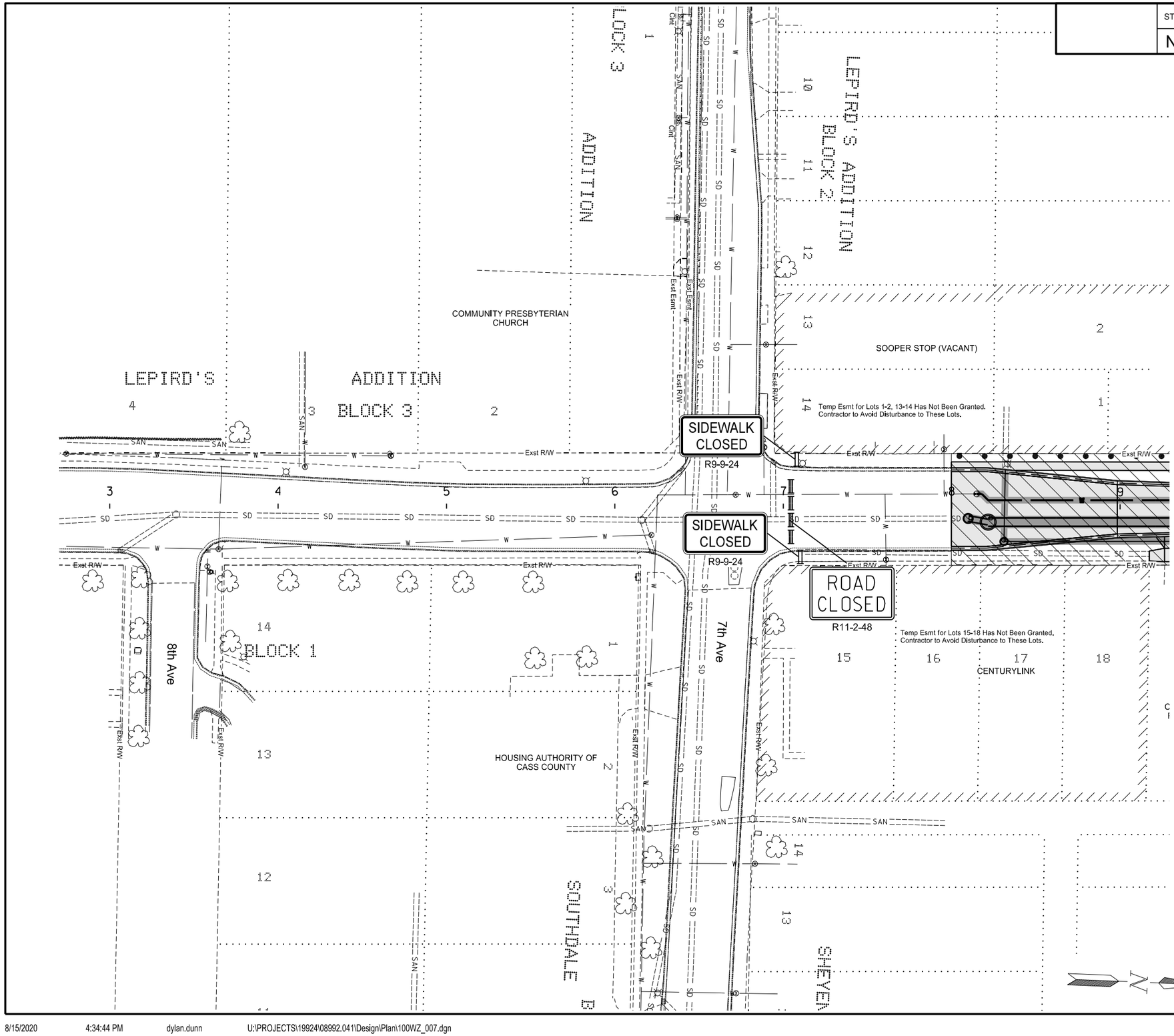
Sheyenne Street

Work Zone Traffic Control

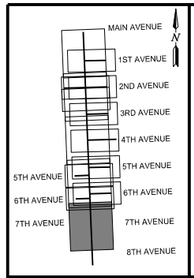
Phase 1

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	7



LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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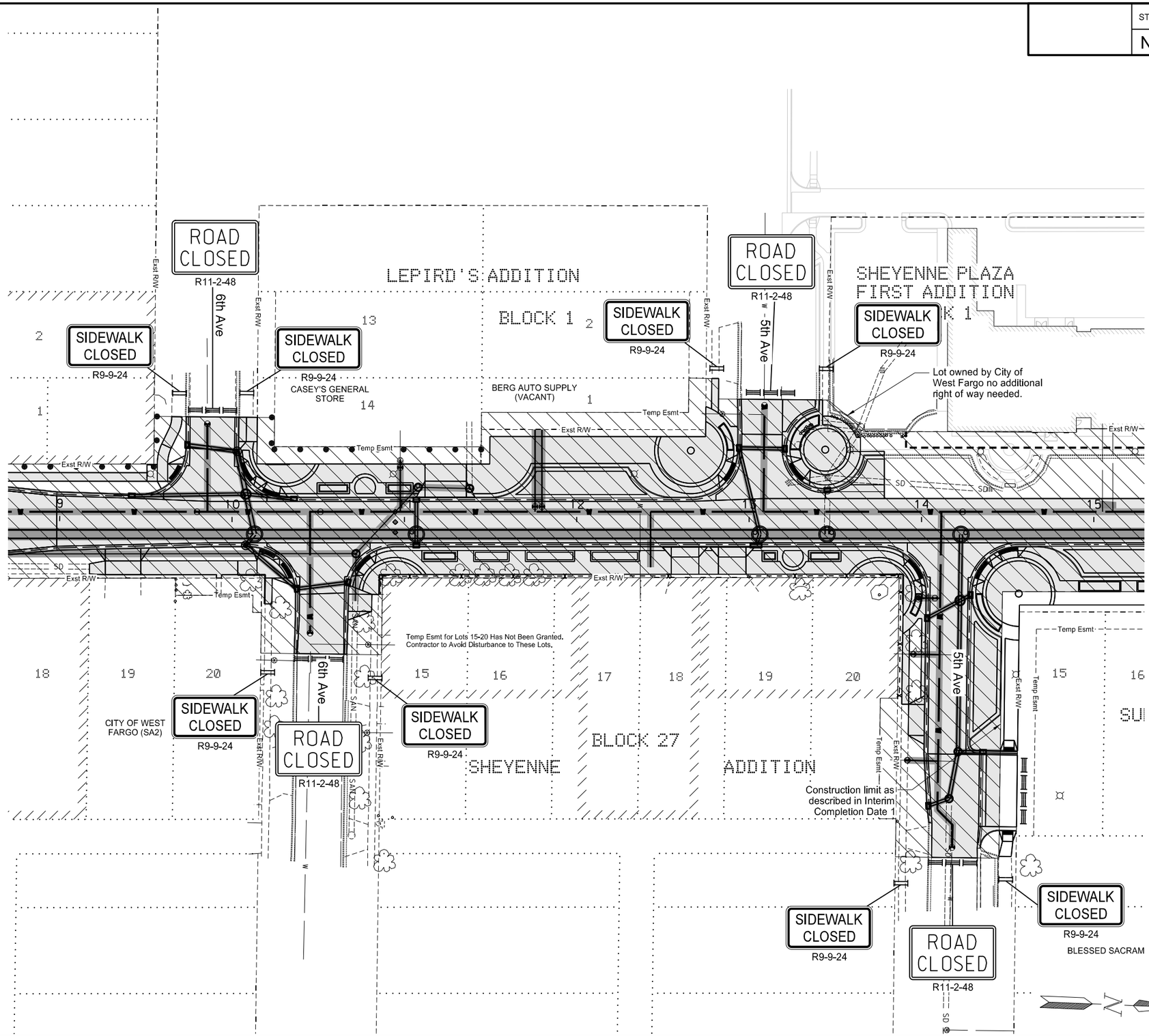
Sheyenne Street

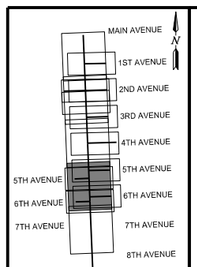
Work Zone Traffic Control
Phase 1
Sta 3+00 to Sta 9+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	8



LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 1
Sta 9+00 to Sta 15+00 (PRSHEYENNE)

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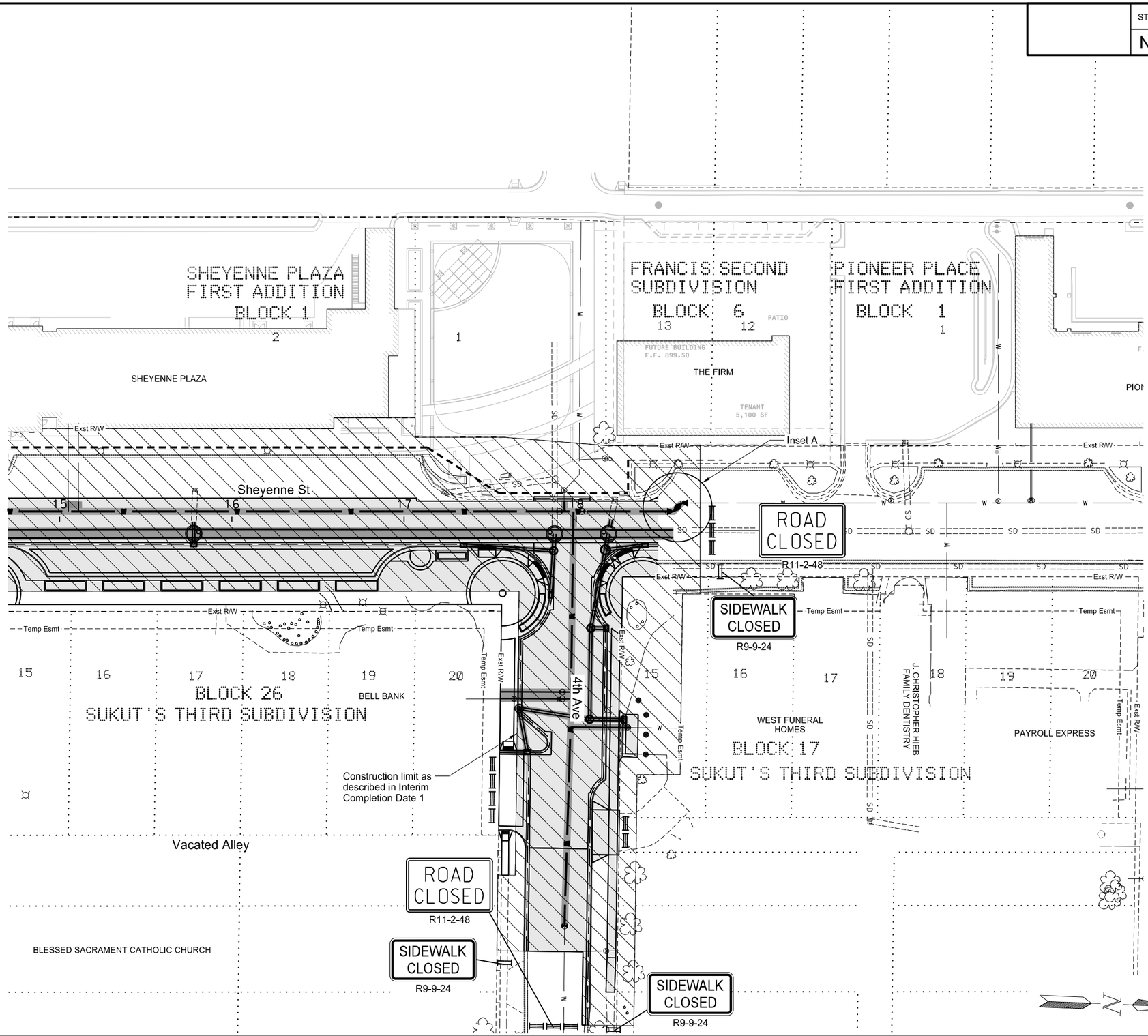
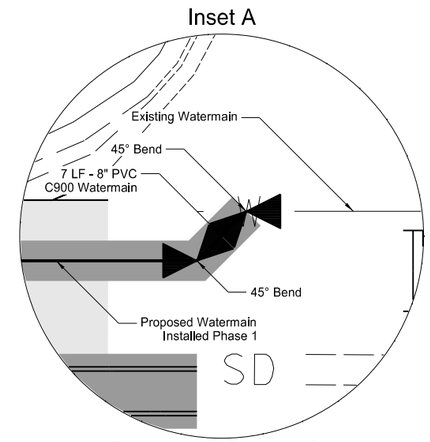
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	9

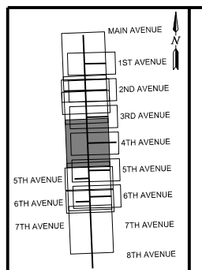




Temporary Watermain
Connection Installation

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 1
Sta 15+00 to Sta 21+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	10



LEGEND

1	ROAD CLOSED	R11-2-48
2	STREET CLOSED TO THRU TRAFFIC	R11-4-60
3	SIDEWALK CLOSED	R9-9-24
4	AHEAD	W16-9p-24
5		W3-1a-48
6	STOP	R1-1-48
7	DETOUR XXXX FT	W20-2-48
8	ROAD CLOSED AHEAD	W20-3-48

9	SHEYENNE ST LOCAL BUSINESS ACCESS ← CONSIGN 1
10	SHEYENNE ST LOCAL BUSINESS ACCESS → CONSIGN 2
11	PIONEER PLACE CHOICE BANK ← CONSIGN 9
12	PIONEER PLACE CHOICE BANK → CONSIGN 10
13	CHOICE BANK ← CONSIGN 11
14	CHOICE BANK → CONSIGN 12
15	PIONEER PLACE ← CONSIGN 13
16	PIONEER PLACE → CONSIGN 14
17	SILVER DOLLAR ← CONSIGN 15
18	SILVER DOLLAR → CONSIGN 16
19	WF CHIRO CENTER ← CONSIGN 17
20	WF CHIRO CENTER → CONSIGN 18

1 3 6 STACK ASSEMBLY TT SIGN

TYPE 3 BARRICADE

SIDEWALK BARRICADE

WORK AREA

N

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Sheyenne Street

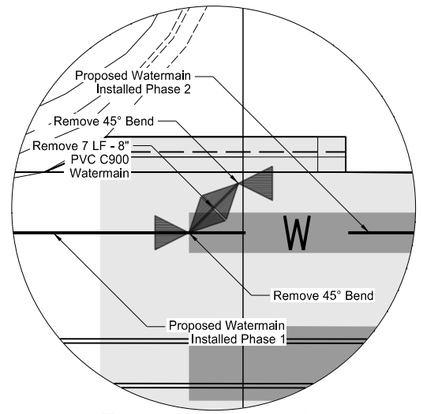
Work Zone Traffic Control

Phase 2

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	11

SHEYENNE PLAZA FIRST ADDITION
BLOCK 1
SHEYENNE PLAZA
FRANCIS SECOND SUBDIVISION
BLOCK 6
PATIO
FUTURE BUILDING F.F. 899.50
THE FIRM
TENANT 5,100 SF
PIONEER PLACE FIRST ADDITION
BLOCK 1
ROAD CLOSED
R11-2-48
Sheyenne St
Exst R/W
Temp Esmt
Inset A
SIDEWALK CLOSED
R9-9-24
4th Ave
BLOCK 26
SUKUT'S THIRD SUBDIVISION
BELL BANK
Vacated Alley
BLESSED SACRAMENT CATHOLIC CHURCH
WEST FUNERAL HOMES
BLOCK 17
SUKUT'S THIRD SUBDIVISION
J. CHRISTOPHER HIEB FAMILY DENTISTRY
PAYROLL EXPRESS
SIDEWALK

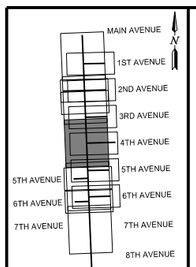
Inset A



Temporary Watermain Connection Removal

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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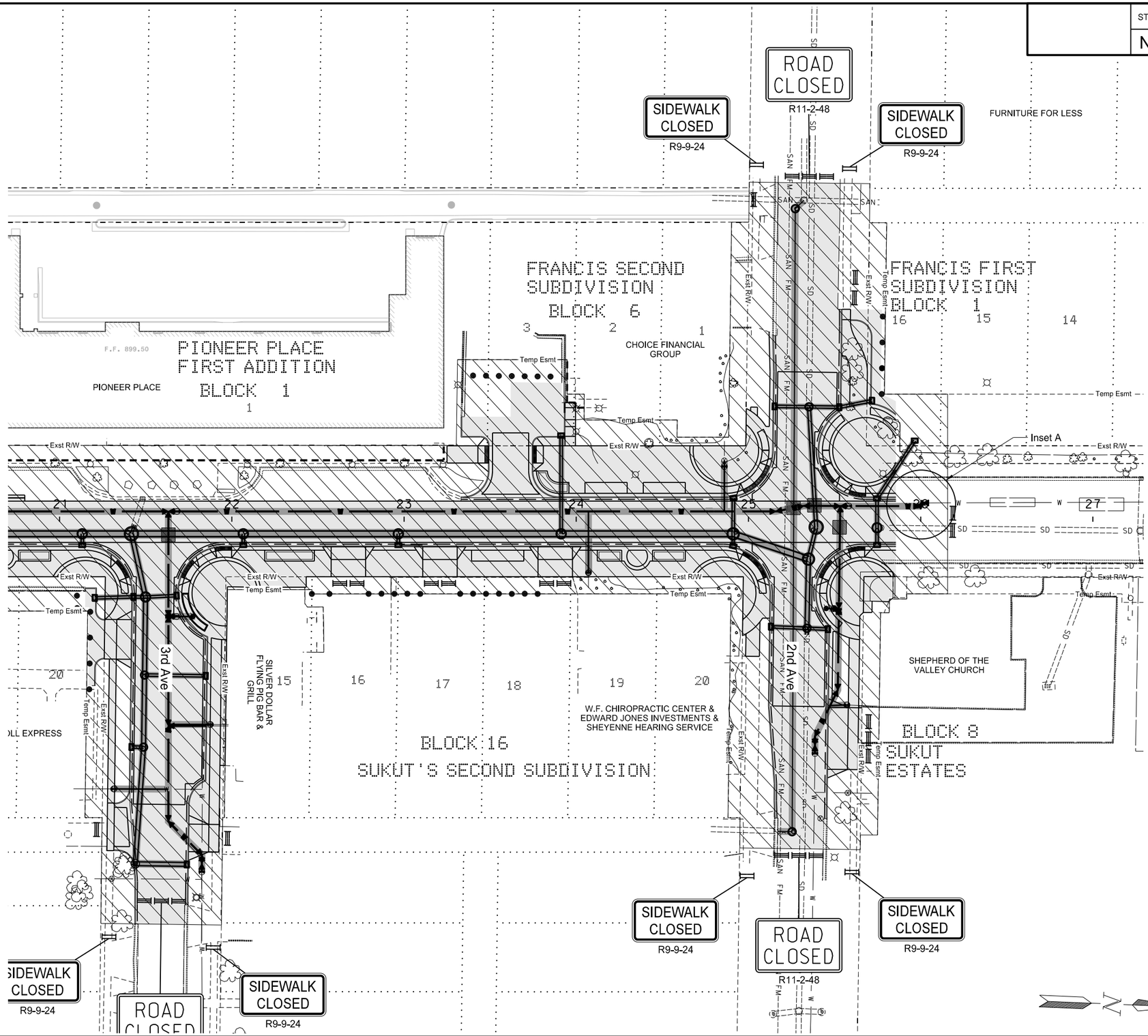
Sheyenne Street

Work Zone Traffic Control
Phase 2
Sta 15+00 to Sta 21+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	12



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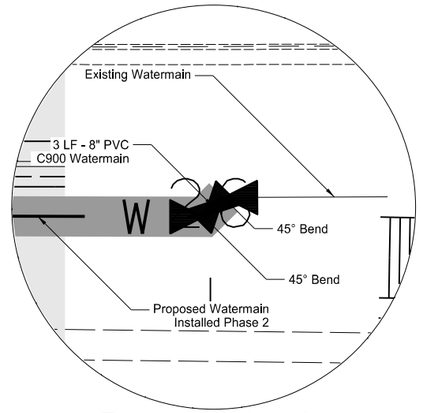
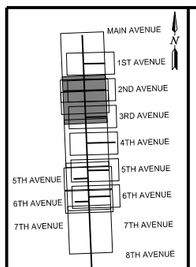


Temporary Watermain Connection Installation

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 2
Sta 21+00 to Sta 27+00 (PRSHEYENNE)

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	13



LEGEND

1	ROAD CLOSED	R11-2-48
2	STREET CLOSED TO THRU TRAFFIC	R11-4-60
3	SIDEWALK CLOSED	R9-9-24
4	AHEAD	W16-9p-30
5		W3-1a-48
6	STOP	R1-1-48
7	DETOUR XXXX FT	W20-2-48
8	ROAD CLOSED AHEAD	W20-3-48

9	CONSIGN 19
10	CONSIGN 20
11	CONSIGN 21
12	CONSIGN 22
13	CONSIGN 23
14	CONSIGN 24
15	CONSIGN 25
16	CONSIGN 26
17	CONSIGN 27
18	CONSIGN 28
19	CONSIGN 29
20	CONSIGN 30

1 3 6 STACK ASSEMBLY TT SIGN

TYPE 3 BARRICADE

SIDEWALK BARRICADE

WORK AREA

ACCESS ROUTE

N

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Sheyenne Street

Work Zone Traffic Control

Phase 3A

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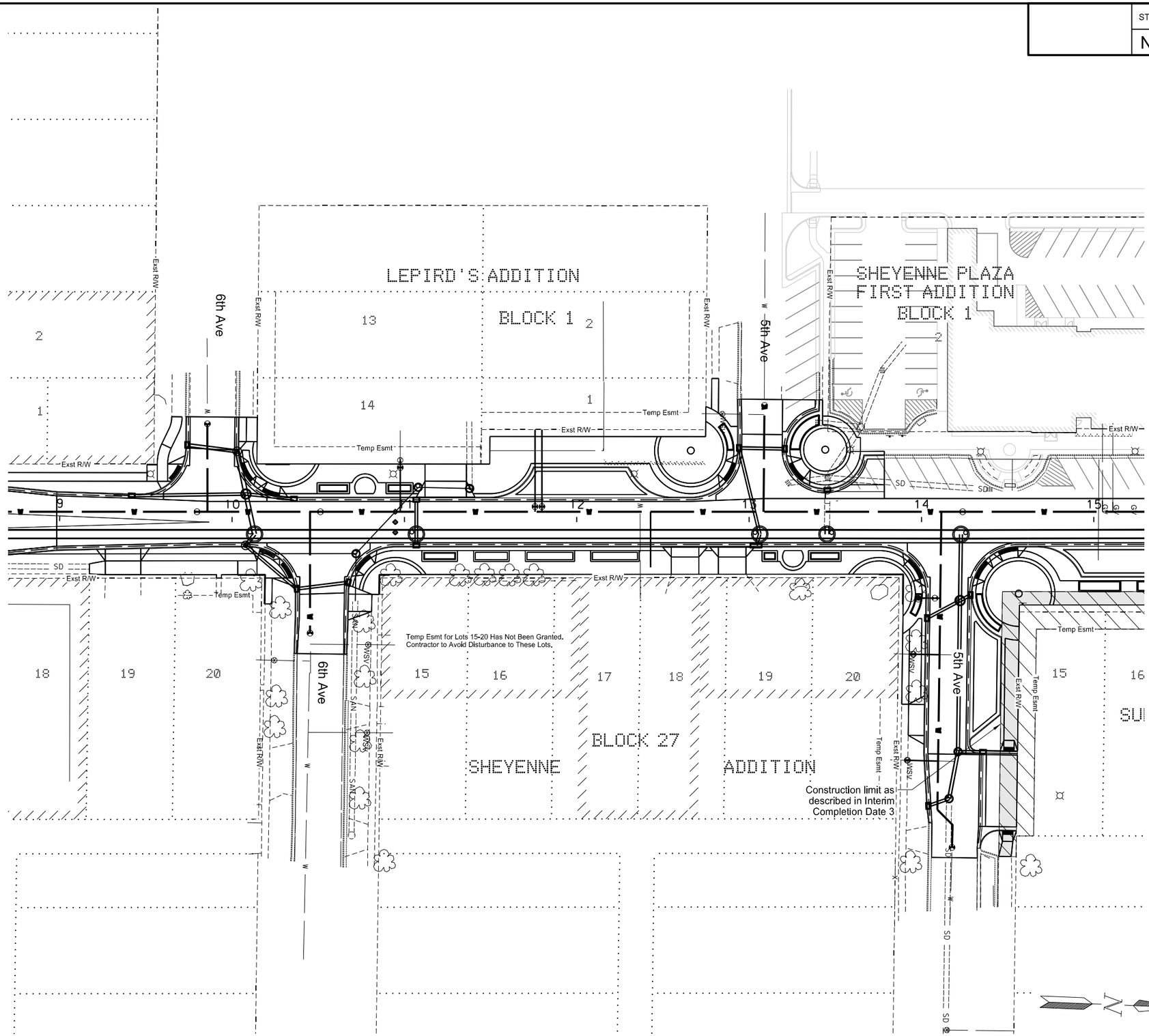
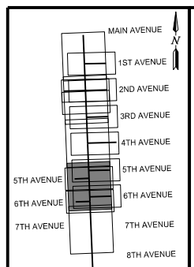
	ND	UGP-8-992(041)	100	14



LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 3A and 3B
Sta 9+00 to Sta 15+00 (PRSHEYENNE)

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	15

SHEYENNE PLAZA
FIRST ADDITION
BLOCK 1

FRANCIS SECOND
SUBDIVISION
BLOCK 6

PIONEER PLACE
FIRST ADDITION
BLOCK 1

FUTURE BUILDING
F.F. 899.50

PATIO

TENANT
5,100 SF

Sheyenne St

Exst R/W

Temp Esmt

SD

W

4th Ave

BLOCK 26
SUKUT'S THIRD SUBDIVISION

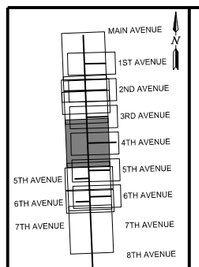
BLOCK 17
SUKUT'S THIRD SUBDIVISION

Construction limit as described in Interim Completion Date 3

Vacated Alley

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 3A and 3B
Sta 15+00 to Sta 21+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	16

PIONEER PLACE
FIRST ADDITION
BLOCK 1

FRANCIS SECOND
SUBDIVISION
BLOCK 6

FRANCIS FIRST
SUBDIVISION
BLOCK 1

BLOCK 16
SUKUT'S SECOND SUBDIVISION

SUKUT
ESTATES

F.F. 899.50

Temp Esmt
Exst R/W
WSV
SAN
FM
SD
W

3rd Ave
2nd Ave

SIDEWALK CLOSED
R9-9-24

ROAD CLOSED
R11-2-48

SIDEWALK CLOSED
R9-9-24

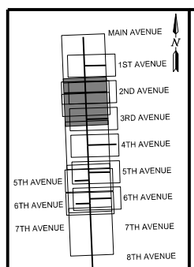
Inset A

Proposed Watermain
Installed Phase 3A
Remove 3 LF - 8"
PVC C900
Watermain
Remove 45° Bend
Remove 45° Bend
Proposed Watermain
Installed Phase 2

Temporary Watermain
Connection Removal

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 3A
Sta 21+00 to Sta 27+00 (PRSHEYENNE)

8/15/2020 4:35:20 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\100WZ_016.dgn

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	17

FRANCIS FIRST SUBDIVISION
BLOCK 1

FRANCIS FIRST SUBDIVISION
BLOCK 1

BLOCK 9
SUKUT ESTATES

BLOCK 1
SUKUT ESTATES

Sheyenne St

1st Ave

U.S. Hwy No. 10 & 52 - Main Ave W

Coordinate loading dock closure with business

Temp Esmt

Exst R/W

SAN

SD

WSV

Connection must be completed prior to construction of temporary asphalt access road at 1st Avenue.

Where local traffic access encroches on work close one lane and utilize flaggers to maintain traffic and complete watermain installation

45' Taper

11' Driving Lane

Protect planter bed

Grade temporary asphalt to drain to inlet

Remove manhole after storm connection at Sta. 26+97 32' Rt and prior to construction of temporary asphalt access road at 1st Avenue

Contractor to coordinate closure with with residents/businesses for water serivce installation

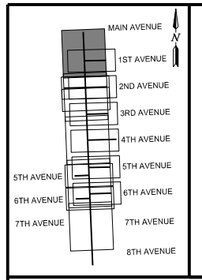
Entrance/Exit
Petro Serve

SIDEWALK CLOSED
R9-9-24

STREET CLOSED TO THRU TRAFFIC
R11-4a-60

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 3A
Sta 27+00 to Sta 33+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	18



LEGEND

1. ROAD CLOSED — R11-2-48
2. STREET CLOSED TO THRU TRAFFIC — R11-4-60
3. SIDEWALK CLOSED — R9-9-24
4. AHEAD — W16-9p-30
5. W3-1a-48
6. STOP — R1-1-48
7. DETOUR XXXX FT — W20-2-48
8. ROAD CLOSED AHEAD — W20-3-48

9. SHEYENNE ST LOCAL BUSINESS ACCESS ← — CONSIGN 1
10. SHEYENNE ST LOCAL BUSINESS ACCESS → — CONSIGN 2
11. PIONEER PLACE CHOICE BANK ← — CONSIGN 9
12. PIONEER PLACE CHOICE BANK → — CONSIGN 10
13. CHOICE BANK ← — CONSIGN 11
14. CHOICE BANK → — CONSIGN 12
15. PIONEER PLACE ← — CONSIGN 13
16. PIONEER PLACE → — CONSIGN 14
17. SILVER DOLLAR ← — CONSIGN 15
18. SILVER DOLLAR → — CONSIGN 16
19. WF CHIRO CENTER ← — CONSIGN 17
20. WF CHIRO CENTER → — CONSIGN 18

1 3 6 STACK ASSEMBLY TT SIGN

TYPE 3 BARRICADE

SIDEWALK BARRICADE

WORK AREA

ACCESS ROUTE

N

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Sheyenne Street

Work Zone Traffic Control

Phase 3B

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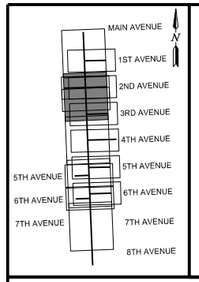
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	19

FRANCIS SECOND SUBDIVISION
BLOCK 6
PIONEER PLACE FIRST ADDITION
BLOCK 1
FRANCIS FIRST SUBDIVISION
BLOCK 1
BLOCK 16
SUKUT'S SECOND SUBDIVISION
BLOCK 8
SUKUT ESTATES
F.F. 899.50
SIDEWALK CLOSED
R9-9-24
STREET CLOSED TO THRU TRAFFIC
R11-4a-60
11' Driving Lane
11' Driving Lane
3rd Ave
2nd Ave
Temp Esmt
Exst R/W
SD
SAN
W

LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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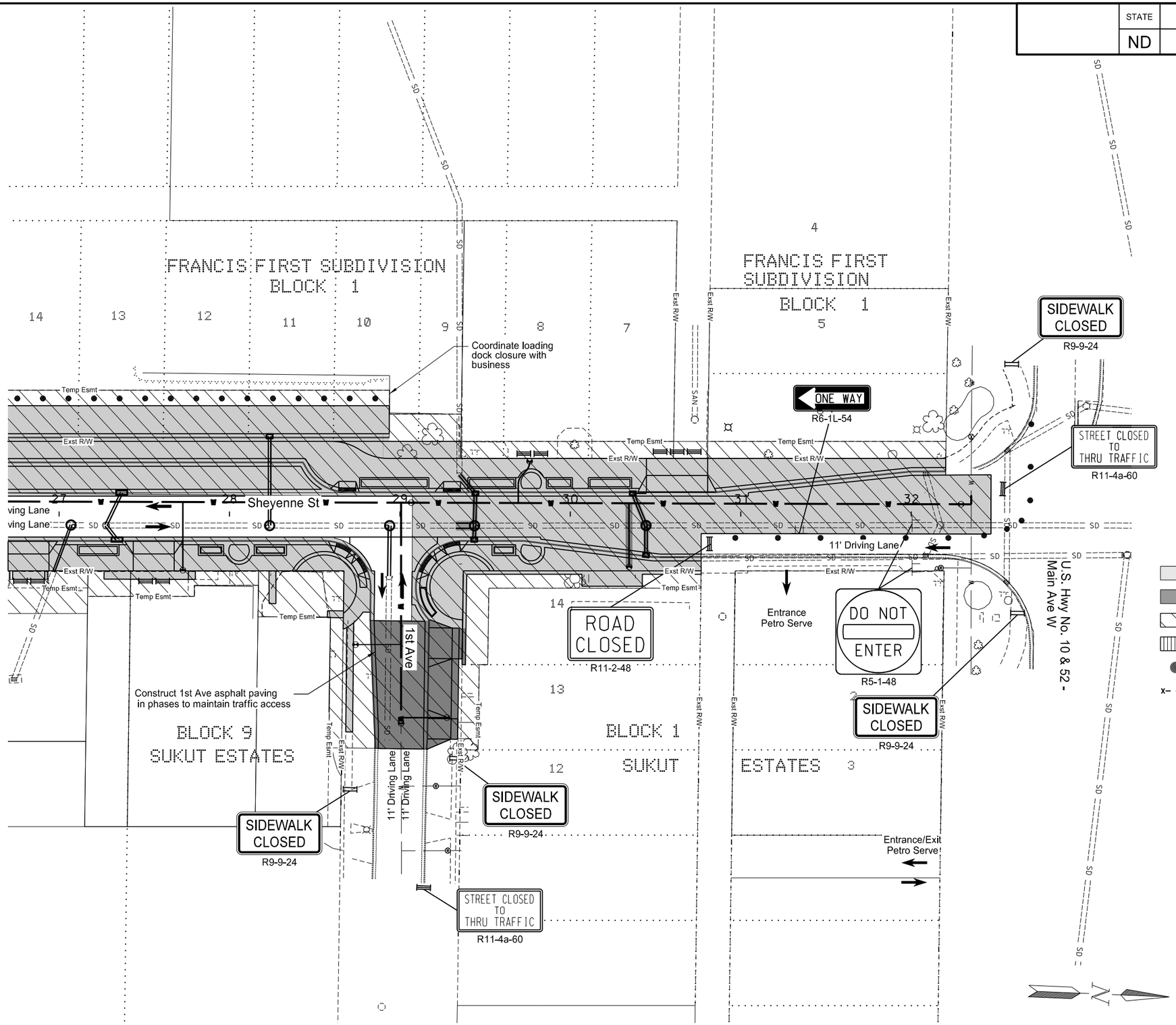
Sheyenne Street

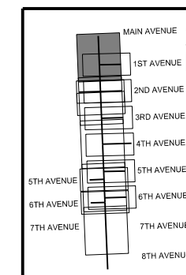
Work Zone Traffic Control
Phase 3B
Sta 21+00 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	20



LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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Sheyenne Street

Work Zone Traffic Control
Phase 3B
Sta 27+00 to Sta 33+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	21

SIGN NUMBER	ND_Business (Lines 3)(Arrow L)
WIDTH X HEIGHT	3'-0" x 2'-0"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 6.0 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																				LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		S	T										24	4	B 2000
6	8.4	11	12.8	15.5	17.7	20.3	22.9	24.4	26.4	28.5												
L	O	C	A	L		B	U	S	I	N	E	S	S							29.7	4	B 2000
3.2	5.1	7.6	9.8	12.5	14	16	18.4	20.7	23.1	24.5	27.1	29	31.1									
A	C	C	E	S	S															13.2	4	B 2000
11.4	14	16.4	18.8	20.8	22.9																	

SIGN NUMBER	ND_Business (Lines 3)(Arrow R)
WIDTH X HEIGHT	3'-0" x 2'-0"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 6.0 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																				LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		S	T										24	4	B 2000
6	8.4	11	12.8	15.5	17.7	20.3	22.9	24.4	26.4	28.5												
L	O	C	A	L		B	U	S	I	N	E	S	S							29.7	4	B 2000
3.2	5.1	7.6	9.8	12.5	14	16	18.4	20.7	23.1	24.5	27.1	29	31.1									
A	C	C	E	S	S															13.2	4	B 2000
11.4	14	16.4	18.8	20.8	22.9																	

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Sheyenne Street

Work Zone Traffic Control

Sign Details

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	22

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

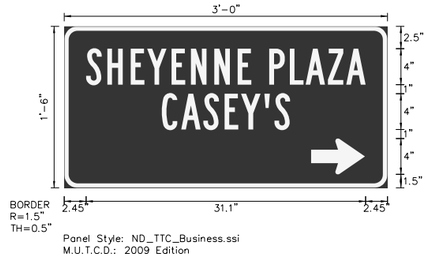
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		P	L	A	Z	A						31.1	4	B 2000
2.4	4.8	7.4	9.2	12	14.1	16.7	19.3	20.8	22.8	25.1	26.9	29.4	31.4								
C	A	S	E	Y	'	S													14.3	4	B 2000
10.9	13	15.5	17.9	19.7	22.3	23.4															

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

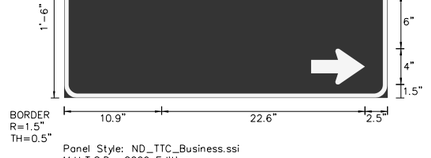
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		P	L	A	Z	A						31.1	4	B 2000
2.4	4.8	7.4	9.2	12	14.1	16.7	19.3	20.8	22.8	25.1	26.9	29.4	31.4								
C	A	S	E	Y	'	S													14.3	4	B 2000
10.9	13	15.5	17.9	19.7	22.3	23.4															

SIGN NUMBER	ND_Business (Lines 1)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

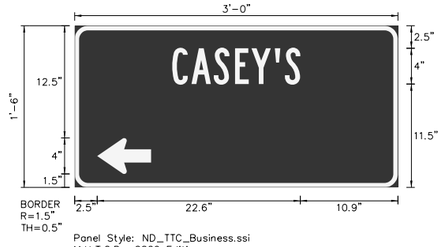
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
C	A	S	E	Y	'	S													14.3	4	B 2000
10.9	13	15.5	17.9	19.7	22.3	23.4															

SIGN NUMBER	ND_Business (Lines 1)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
C	A	S	E	Y	'	S													14.3	4	B 2000
10.9	13	15.5	17.9	19.7	22.3	23.4															

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Sheyenne Street

Work Zone Traffic Control

Sign Details

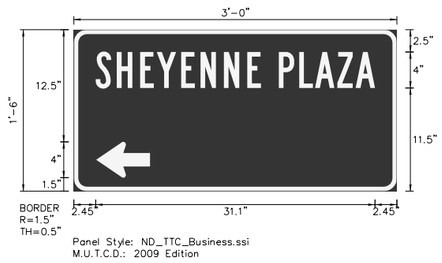
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	23

SIGN NUMBER	ND_Business (Lines 1)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

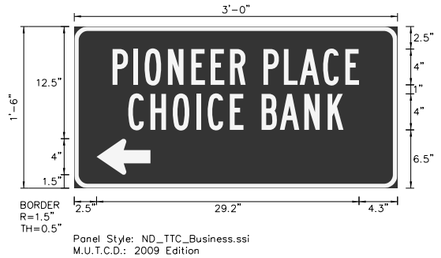
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		P	L	A	Z	A						31.1	4	B 2000
2.4	4.8	7.4	9.2	12	14.1	16.7	19.3	20.8	22.8	25.1	26.9	29.4	31.4								

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

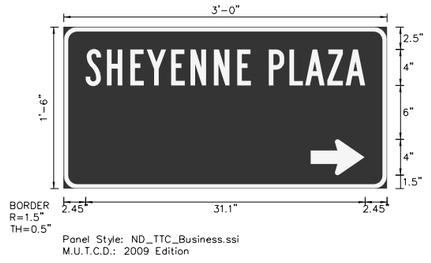
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
P	I	O	N	E	E	R		P	L	A	C	E								27.4	4	B 2000
4.3	6.6	7.8	10.4	13	15.2	17.4	19.1	21.1	23.4	25.1	27.7	30.2										
C	H	O	I	C	E		B	A	N	K										24	4	B 2000
6	8.5	11	13.6	14.9	17.3	18.9	20.9	22.9	25.6	28.2												

SIGN NUMBER	ND_Business (Lines 1)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

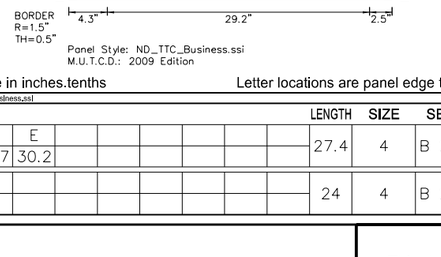
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		P	L	A	Z	A							31.1	4	B 2000
2.4	4.8	7.4	9.2	12	14.1	16.7	19.3	20.8	22.8	25.1	26.9	29.4	31.4									

SIGN NUMBER	ND_Business (Lines 2)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																				LENGTH	SIZE	SERIES
P	I	O	N	E	E	R		P	L	A	C	E								27.4	4	B 2000
4.3	6.6	7.8	10.4	13	15.2	17.4	19.1	21.1	23.4	25.1	27.7	30.2										
C	H	O	I	C	E		B	A	N	K										24	4	B 2000
6	8.5	11	13.6	14.9	17.3	18.9	20.9	22.9	25.6	28.2												

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Sheyenne Street

Work Zone Traffic Control

Sign Details

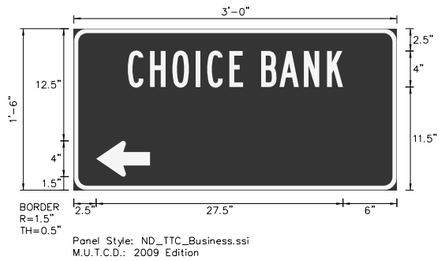
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	24

SIGN NUMBER	ND_Business (Lines 1)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

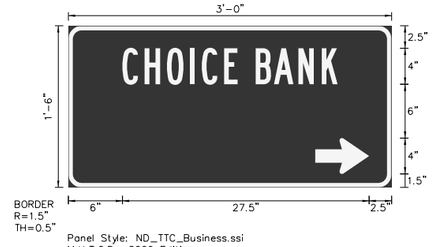
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
C	H	O	I	C	E		B	A	N	K										24	4	B 2000
6	8.5	11	13.6	14.9	17.3	18.9	20.9	22.9	25.6	28.2												

SIGN NUMBER	ND_Business (Lines 1)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

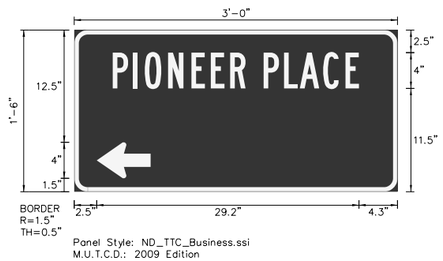
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
C	H	O	I	C	E		B	A	N	K										24	4	B 2000
6	8.5	11	13.6	14.9	17.3	18.9	20.9	22.9	25.6	28.2												

SIGN NUMBER	ND_Business (Lines 1)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE:ND_TTC_Business.ssi

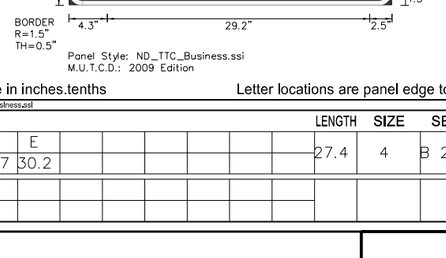
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
P	I	O	N	E	E	R		P	L	A	C	E								27.4	4	B 2000
4.3	6.6	7.8	10.4	13	15.2	17.4	19.1	21.1	23.4	25.1	27.7	30.2										

SIGN NUMBER	ND_Business (Lines 1)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE:ND_TTC_Business.ssi

LETTER POSITION (X)																				LENGTH	SIZE	SERIES
P	I	O	N	E	E	R		P	L	A	C	E								27.4	4	B 2000
4.3	6.6	7.8	10.4	13	15.2	17.4	19.1	21.1	23.4	25.1	27.7	30.2										

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Sheyenne Street

Work Zone Traffic Control

Sign Details

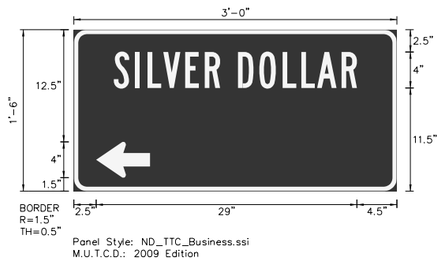
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	25

SIGN NUMBER	ND_Business (Lines 1)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

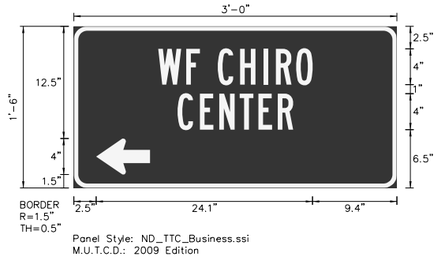
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	I	L	V	E	R		D	O	L	L	A	R							27.1	4	B 2000
4.5	6.8	8.2	10	12.4	14.6	16.3	18.3	20.7	23.3	25.3	27.1	29.8									

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

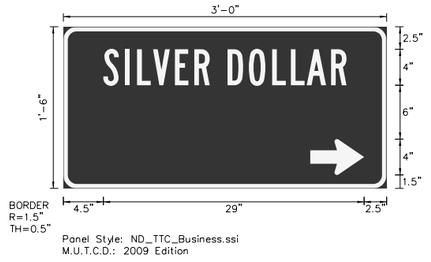
LETTER POSITION (X)								LENGTH	SIZE	SERIES
W	F		C	H	I	R	O	17.2	4	B 2000
9.4	12.5	14	16	18.5	21.1	22.5	24.8			
C	E	N	T	E	R			12.9	4	B 2000
11.6	14	16.2	18.5	20.6	22.7					

SIGN NUMBER	ND_Business (Lines 1)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

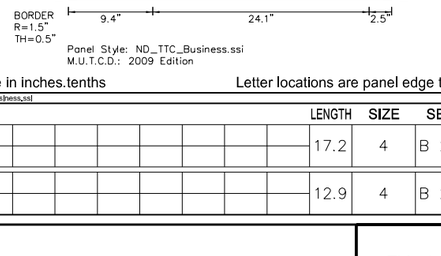
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	I	L	V	E	R		D	O	L	L	A	R							27.1	4	B 2000
4.5	6.8	8.2	10	12.4	14.6	16.3	18.3	20.7	23.3	25.3	27.1	29.8									

SIGN NUMBER	ND_Business (Lines 2)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
W	F		C	H	I	R	O												17.2	4	B 2000
9.4	12.5	14	16	18.5	21.1	22.5	24.8														
C	E	N	T	E	R														12.9	4	B 2000
11.6	14	16.2	18.5	20.6	22.7																

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Sheyenne Street

Work Zone Traffic Control

Sign Details

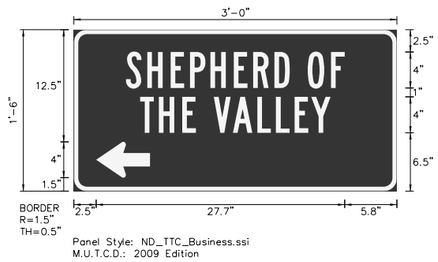
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	26

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

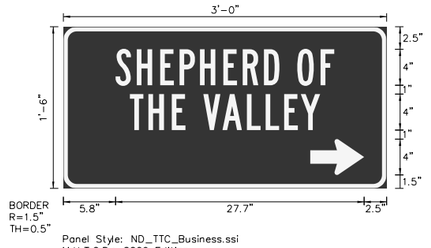
LETTER POSITION (X)																						LENGTH	SIZE	SERIES
S	H	E	P	H	E	R	D		O	F												24.4	4	B 2000
5.8	8.2	10.8	12.9	15.2	17.8	20	22.3	24.1	26.1	28.7														
T	H	E		V	A	L	L	E	Y													21.2	4	B 2000
7.4	9.5	12.1	13.6	15.6	17.7	20.4	22.5	24.6	26.4															

SIGN NUMBER	ND_Business (Lines 2)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

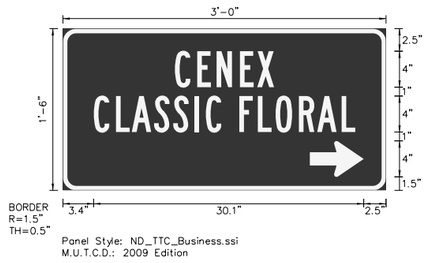
LETTER POSITION (X)																						LENGTH	SIZE	SERIES
S	H	E	P	H	E	R	D		O	F												24.4	4	B 2000
5.8	8.2	10.8	12.9	15.2	17.8	20	22.3	24.1	26.1	28.7														
T	H	E		V	A	L	L	E	Y													21.2	4	B 2000
7.4	9.5	12.1	13.6	15.6	17.7	20.4	22.5	24.6	26.4															

SIGN NUMBER	ND_Business (Lines 2)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

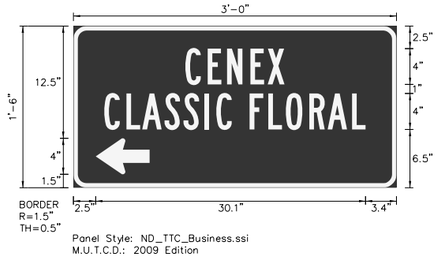
LETTER POSITION (X)																						LENGTH	SIZE	SERIES
C	E	N	E	X																		11	4	B 2000
12.5	15	17.1	19.7	21.6																				
C	L	A	S	S	I	C		F	L	O	R	A	L									29.1	4	B 2000
3.4	5.9	7.7	10.2	12.3	14.6	15.9	17.6	19.6	21.7	23.7	26.3	28.3	31											

SIGN NUMBER	ND_Business (Lines 2)(Arrow R)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																						LENGTH	SIZE	SERIES
C	E	N	E	X																		11	4	B 2000
12.5	15	17.1	19.7	21.6																				
C	L	A	S	S	I	C		F	L	O	R	A	L									29.1	4	B 2000
3.4	5.9	7.7	10.2	12.3	14.6	15.9	17.6	19.6	21.7	23.7	26.3	28.3	31											

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Sheyenne Street

Work Zone Traffic Control

Sign Details

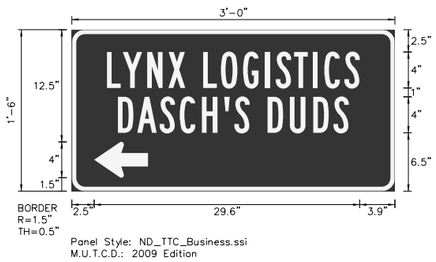
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	27

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

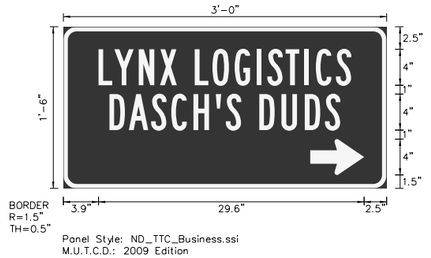
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
L	Y	N	X		L	O	G	I	S	T	I	C	S							28.2	4	B 2000
3.9	5.7	8.4	10.8	12.6	14.6	16.6	19.1	21.6	22.7	24.8	26.8	28.1	30.4									
D	A	S	C	H	'	S		D	U	D	S									25.7	4	B 2000
5.1	7.3	9.8	12	14.5	17	18.1	19.8	21.8	24.3	26.9	29.1											

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

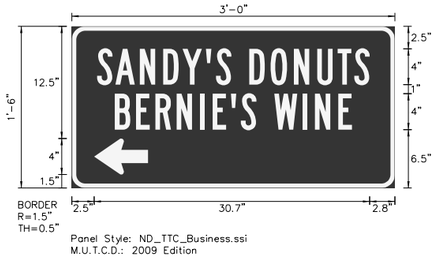
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
L	Y	N	X		L	O	G	I	S	T	I	C	S							28.2	4	B 2000
3.9	5.7	8.4	10.8	12.6	14.6	16.6	19.1	21.6	22.7	24.8	26.8	28.1	30.4									
D	A	S	C	H	'	S		D	U	D	S									25.7	4	B 2000
5.1	7.3	9.8	12	14.5	17	18.1	19.8	21.8	24.3	26.9	29.1											

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

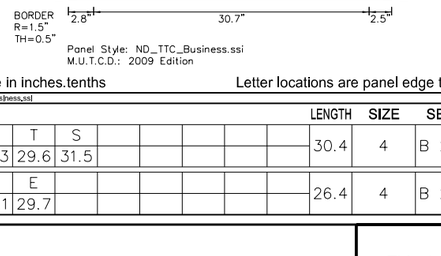
LETTER POSITION (X)																				LENGTH	SIZE	SERIES
S	A	N	D	Y	'	S		D	O	N	U	T	S							30.4	4	B 2000
2.8	4.9	7.6	10.2	12.3	14.9	16.1	17.8	19.8	22.1	24.7	27.3	29.6	31.5									
B	E	R	N	I	E	'	S		W	I	N	E								26.4	4	B 2000
4.8	7.2	9.3	11.7	14.3	15.7	17.7	18.8	20.6	22.6	25.7	27.1	29.7										

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																				LENGTH	SIZE	SERIES
S	A	N	D	Y	'	S		D	O	N	U	T	S							30.4	4	B 2000
2.8	4.9	7.6	10.2	12.3	14.9	16.1	17.8	19.8	22.1	24.7	27.3	29.6	31.5									
B	E	R	N	I	E	'	S		W	I	N	E								26.4	4	B 2000
4.8	7.2	9.3	11.7	14.3	15.7	17.7	18.8	20.6	22.6	25.7	27.1	29.7										

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Sheyenne Street

Work Zone Traffic Control

Sign Details

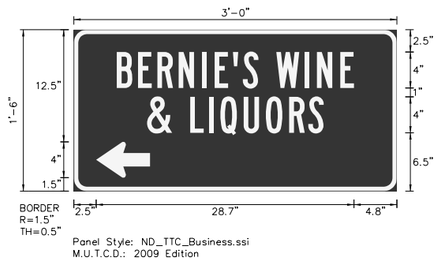
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	100	28

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

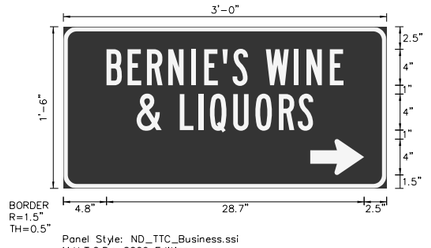
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
B	E	R	N	I	E	'	S		W	I	N	E							26.4	4	B 2000
4.8	7.2	9.3	11.7	14.3	15.7	17.7	18.8	20.6	22.6	25.7	27.1	29.7									
&		L	I	Q	U	O	R	S											19.7	4	B 2000
8.2	11	13	15	16.3	18.9	21.4	24	26.1													

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

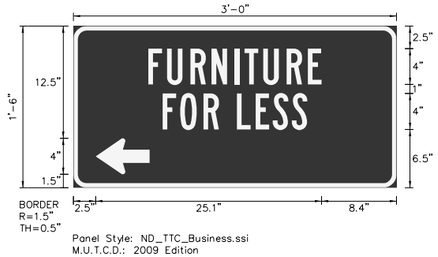
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
B	E	R	N	I	E	'	S		W	I	N	E							26.4	4	B 2000
4.8	7.2	9.3	11.7	14.3	15.7	17.7	18.8	20.6	22.6	25.7	27.1	29.7									
&		L	I	Q	U	O	R	S											19.7	4	B 2000
8.2	11	13	15	16.3	18.9	21.4	24	26.1													

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	2.5	1.5	4	6	90

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

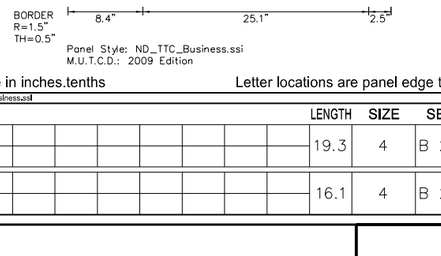
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
F	U	R	N	I	T	U	R	E											19.3	4	B 2000
8.4	10.4	13	15.4	18	19.1	21.2	23.8	26.1													
F	O	R		L	E	S	S												16.1	4	B 2000
9.9	11.9	14.5	16.2	18.2	20.3	22.2	24.3														

SIGN NUMBER	ND_Business (Lines 2)(Arrow L)
WIDTH X HEIGHT	3'-0" x 1'-6"
BORDER WIDTH	0.5" (inset 0")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
AR_Type D	27.5	1.5	4	6	270

STATION(S): none

AREA: 4.5 Sq.Ft.



Panel Style: ND_TTC_Business.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_TTC_Business.ssi

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
F	U	R	N	I	T	U	R	E											19.3	4	B 2000
8.4	10.4	13	15.4	18	19.1	21.2	23.8	26.1													
F	O	R		L	E	S	S												16.1	4	B 2000
9.9	11.9	14.5	16.2	18.2	20.3	22.2	24.3														

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Sheyenne Street

Work Zone Traffic Control

Sign Details

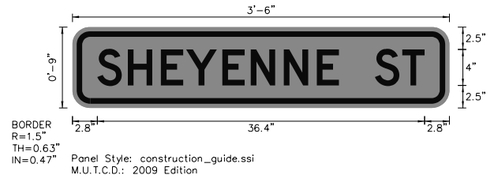
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	29

SIGN NUMBER	name
WIDTH X HEIGHT	3'-6" x 0'-9"
BORDER WIDTH	0.63" (inset 0.47")
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: IV Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: Black

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
none

AREA: 2.6 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: construction_guide.ssi

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	H	E	Y	E	N	N	E		S	T									36.4	4	D 2000
2.8	6.2	9.9	12.7	16.7	19.9	23.5	27.2	29.7	33.7	36.7											

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Sheyenne Street

Work Zone Traffic Control

Sign Details

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	UGP-8-992(041)	110	1

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
9+55 Rt	SA-B			5.5					7.0														Mount on Light Standard
9+68 Lt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
10+11 Rt	SA-A			8.3					7.0														Mount on Light Standard
10+36 Lt	SA-A			8.3					7.0														Mount on Light Standard
10+71 Rt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
11+67 Rt	R2-1	10		7.5					7.0														Mount on Light Standard
12+90 Lt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
14+33 Rt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
14+57 Lt	SA-A			8.3	8.2				7.0	2.5 x 2.5 12 ga	9.3						1	4	3 x 3 7 ga				
14+60 Rt	SA-A			8.3	8.2				7.0	2.5 x 2.5 12 ga	9.3						1	4	3 x 3 7 ga				
17+60 Rt	SA-A			8.3					7.0														Mount on Light Standard
17+67 Rt	SA-C			9.0	11.7				7.0	2.5 x 2.5 12 ga	12.1						1	4	3 x 3 7 ga				
17+80 Rt	R5-2	14		4.0	9.2				7.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
18+15 Rt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
18+38 Lt	SA-A			8.3	8.2				7.0	2.5 x 2.5 12 ga	9.3						1	4	3 x 3 7 ga				
21+38 Rt	R7-1A	7		1.5	8.7				7.0	2 x 2 12 ga	25.5						1	4	2.25 x 2.25 12 ga				
21+74 Rt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
22+03 Lt	SA-A			8.3					7.0														Mount on Light Standard
22+06 Rt	SA-A			8.3					7.0														Mount on Light Standard
22+91 Rt	SA-C			9.0					7.0														Mount on Light Standard
24+90 Rt	SA-A			8.3					7.0														Mount on Light Standard
25+10 Lt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
25+46 Rt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
25+75 Lt	SA-A			8.3					7.0														Mount on Light Standard
28+52 Rt	SA-A			8.3					7.0														Mount on Light Standard
28+79	W14-1	19		6.3	10.2				7.0	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
28+83 Rt	R7-1A	7		1.5	8.7				7.0	2 x 2 12 ga	25.5						1	4	2.25 x 2.25 12 ga				
29+16 Rt	SA-2E		7.5	5.2	7.2				7.0	2.25 x 2.25 12 ga	7.5						1	4	2.5 x 2.5 12 ga				
29+37 Lt	SA-A			8.3					7.0														Mount on Light Standard
29+50 Rt	M1-6	437		8.4					7.0														Mount on Light Standard
30+38 Lt	R2-1	10		7.5					7.0														Mount on Light Standard
31+13 Lt	R5-2	14		4.0					7.0														Mount on Light Standard
Sub Total			67.5	210.6		**Total**	137.4										**Total**	68.0		0	0	0	

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Sign Summary
Perforated Tube

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	UGP-8-992(041)	110	2

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
Grand Total			67.5	210.6		Total	137.4										Total	68	0	0	0	0	

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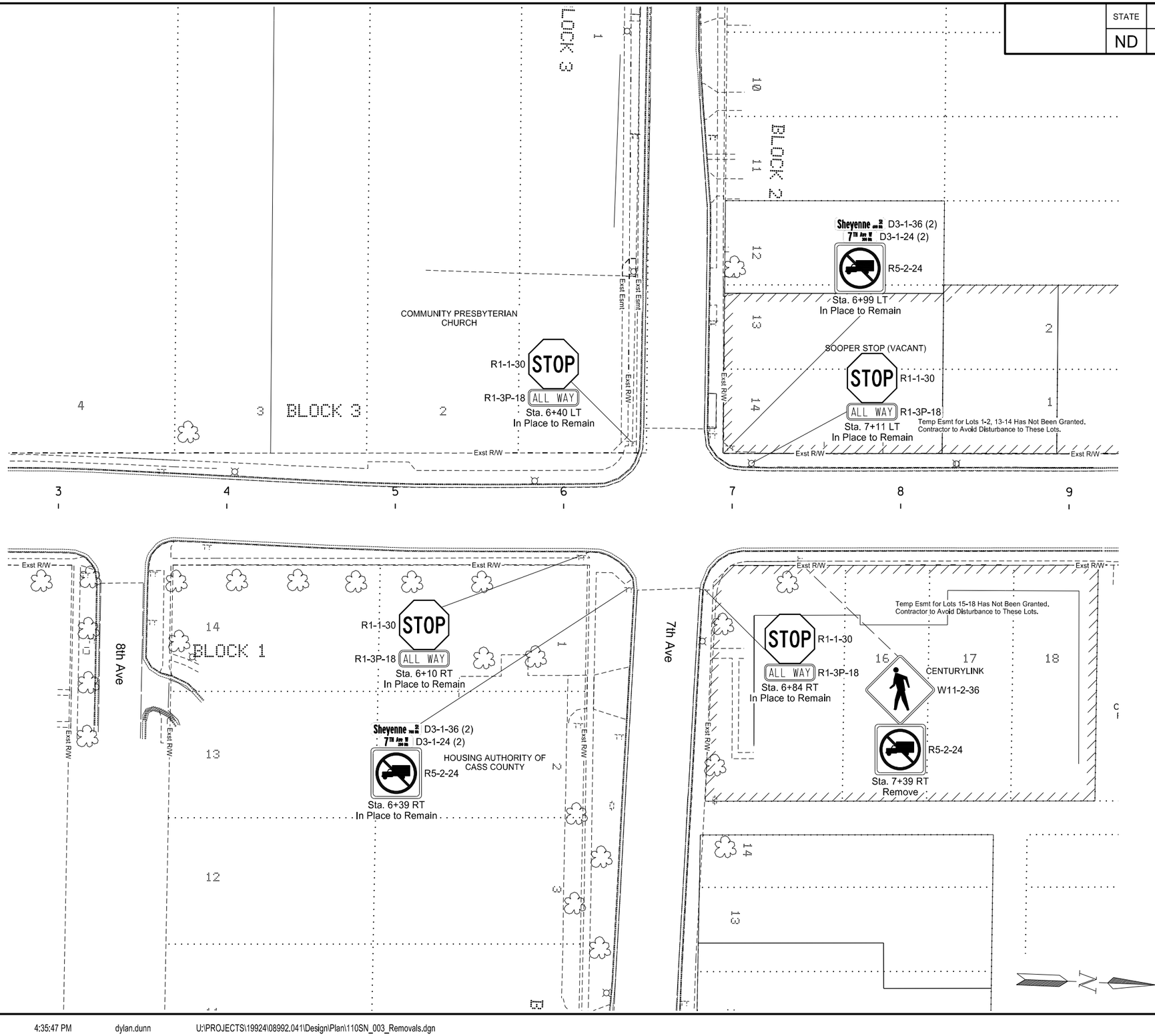
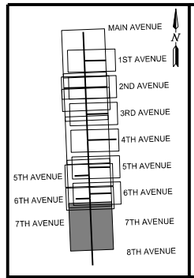
Sign Summary
Perforated Tube

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	3





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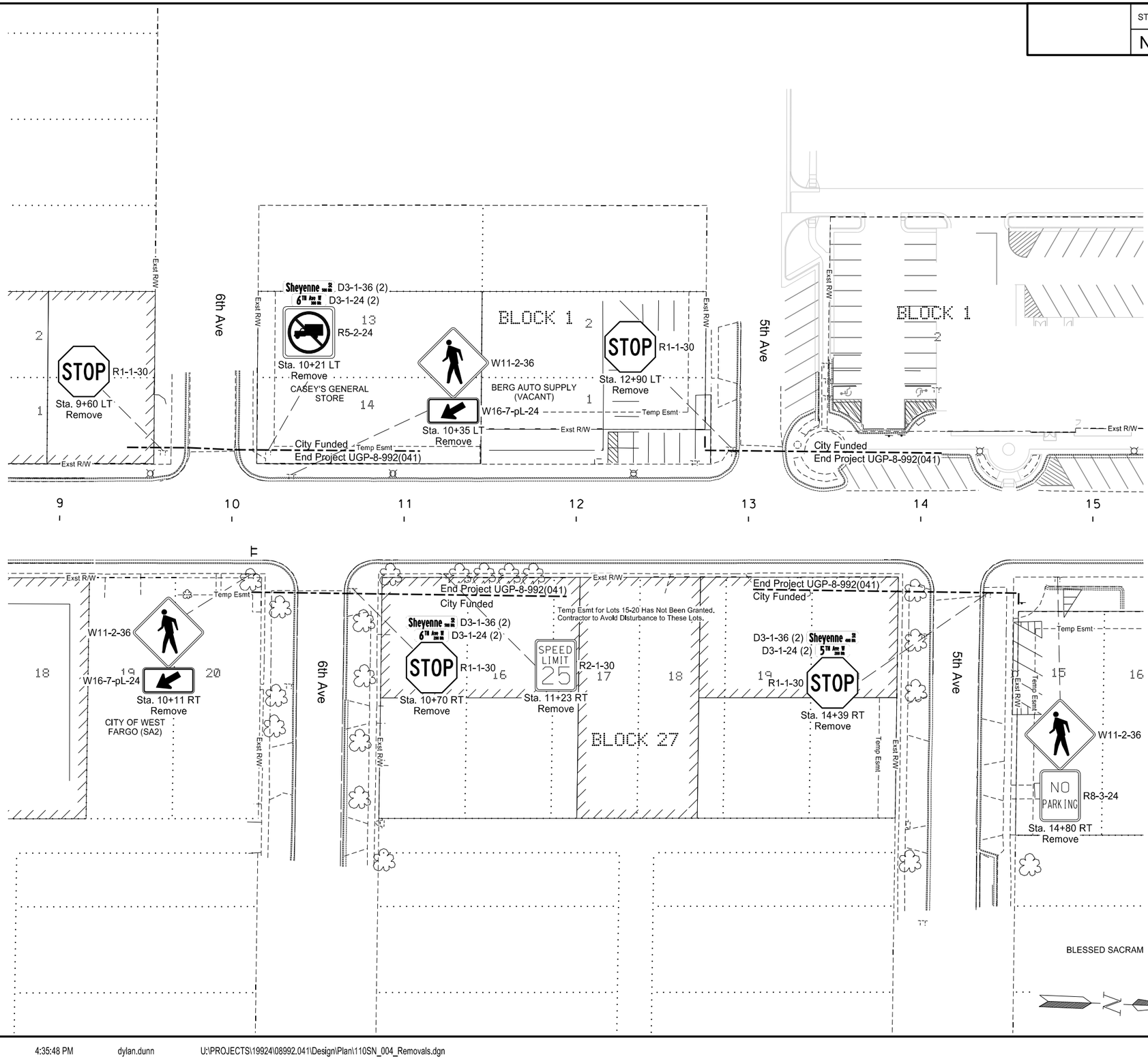
Sheyenne Street

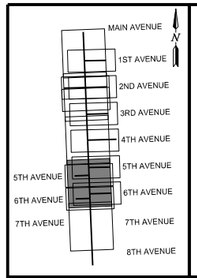
Signing - Removals

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

8/15/2020 4:35:47 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\110SN_003_Removals.dgn

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	4





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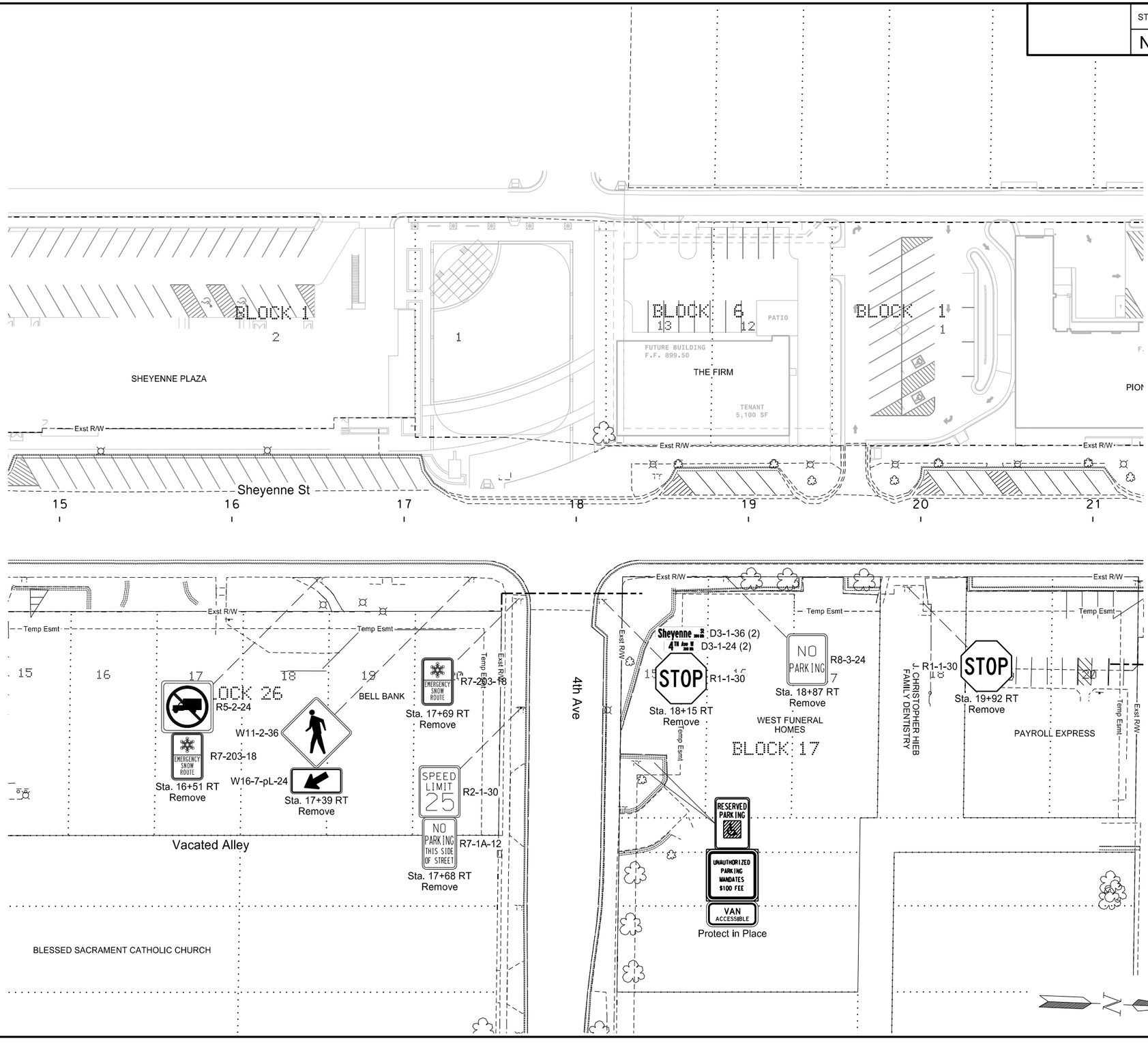
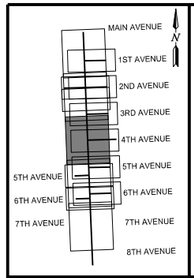
Sheyenne Street

Signing - Removals

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	5





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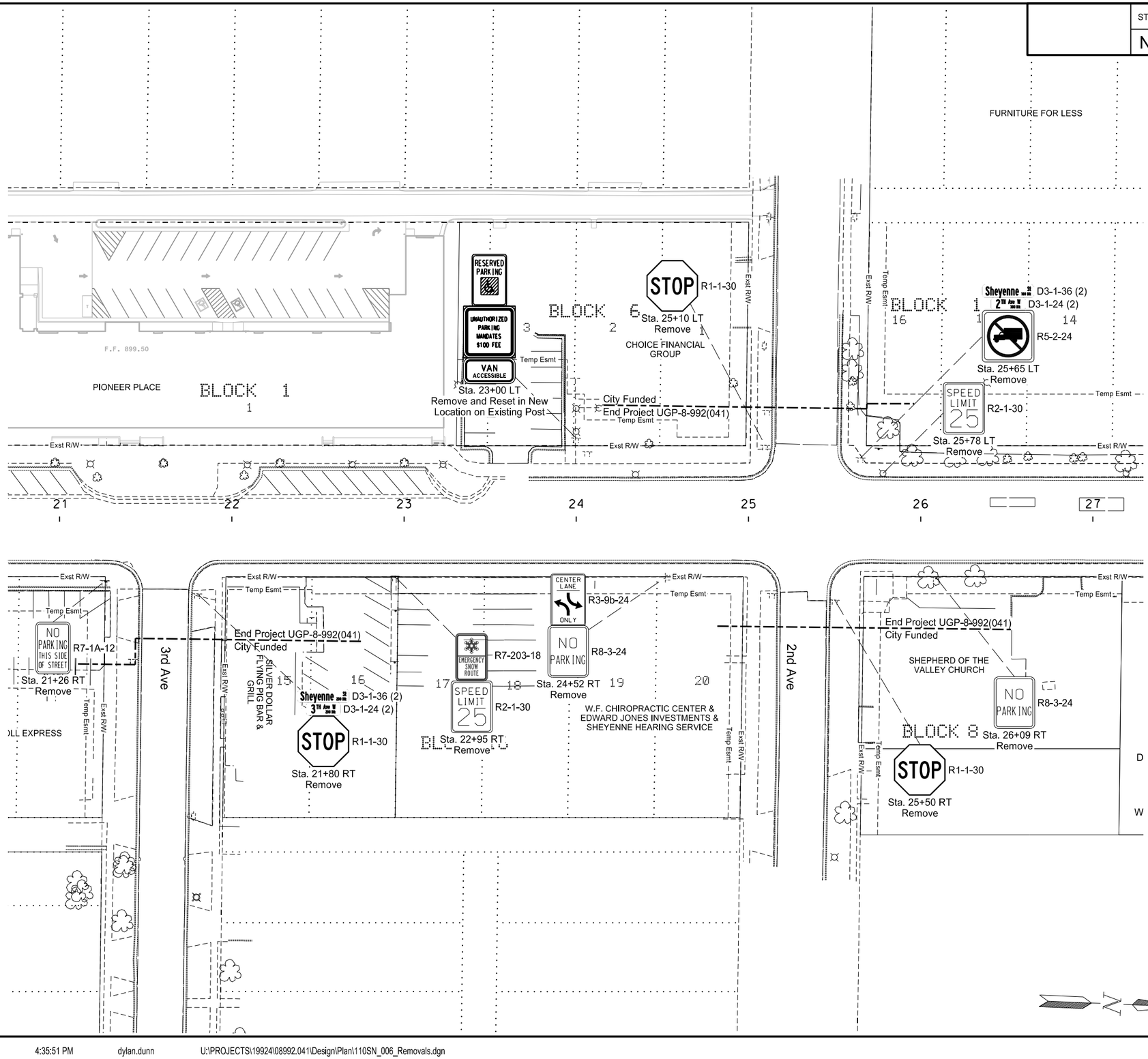
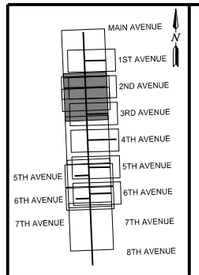
Sheyenne Street

Signing - Removals

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	6





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Sheyenne Street

Signing - Removals

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	7

FOR LESS

BLOCK 1

13 12 11 10 9 8 7

FURNITURE FOR LESS

BERNIE'S WINE & LIQUORS

CENTER LANE ONLY R3-9b-24

Sta. 29+92 LT
Remove

Exst R/W

Temp Esmt

BLOCK 1

4 5 6

SANDY'S DONUTS

R5-2-24

Sta. 31+38 RT
Remove

27 28 Sheyenne St 29 30 31 32

NO PARKING R8-3-24

Sta. 28+26 RT
Remove

WESTSIDE WELLNESS & DASCH'S DUDS

LYNX LOGISTICS

BLOCK 9

D3-1-36 (2) Sheyenne
D3-1-24 (2) 1ST AVE W

W14-1-30 DEAD END

Sta. 28+83 RT
Remove

NO PARKING THIS SIDE OF STREET R7-1A-12

Sta. 28+83 RT
Remove

1st Ave

End Project UGP-8-992(041)
City Funded

STOP R1-1-30

Sta. 29+21 RT
Remove

CLASSIC FLORAL

BLOCK 1

12 13 14

CENEX

1

CASS 17 COUNTY M1-6-24

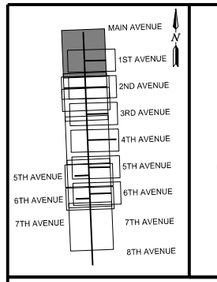
2

M6-1L-21

NO PARKING R8-3-24 3

Sta. 30+29 RT
Remove

U.S. Hwy No. 10 & 52 - Main Ave W



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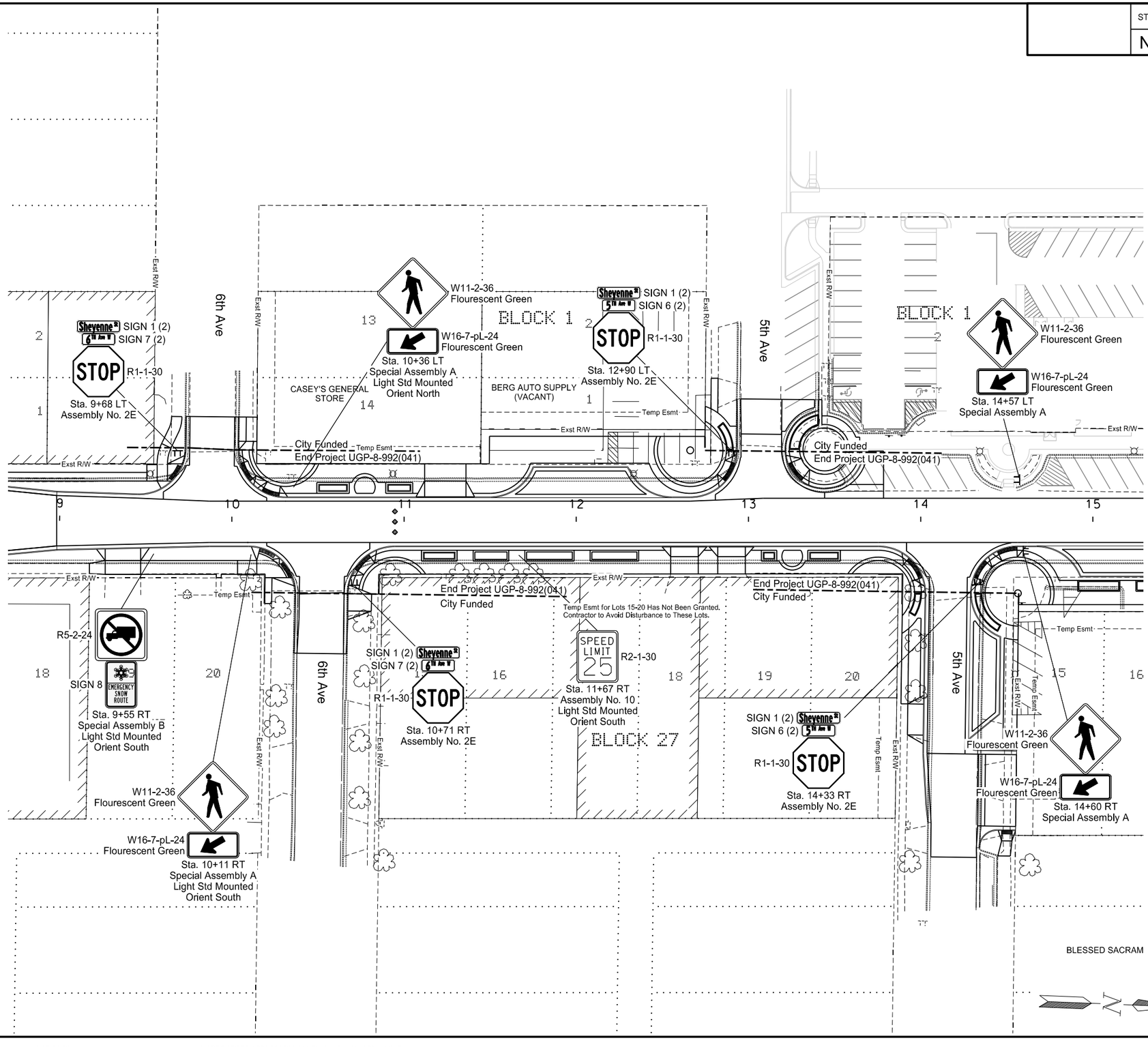
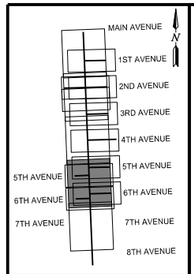
Sheyenne Street

Signing - Removals

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	8





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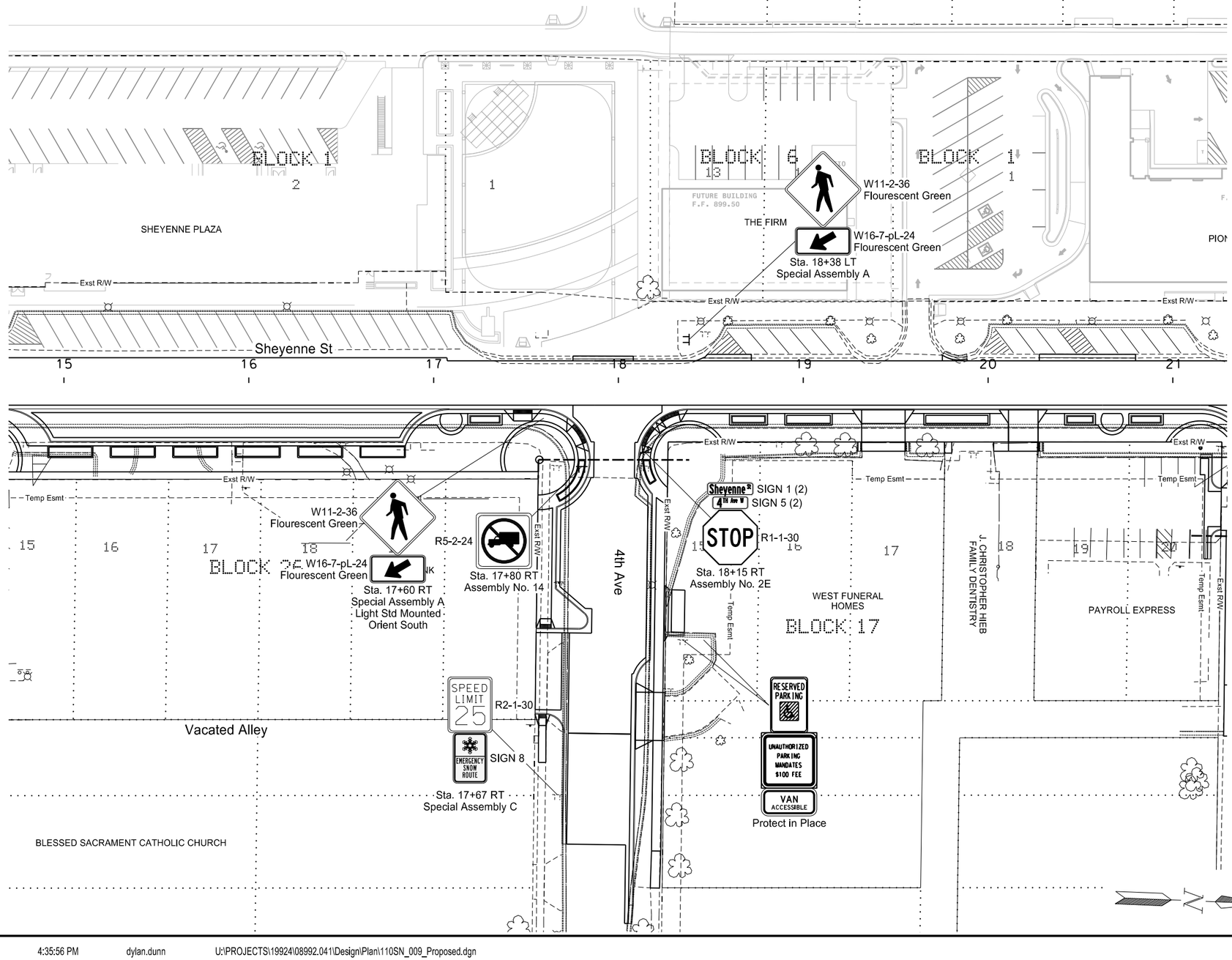
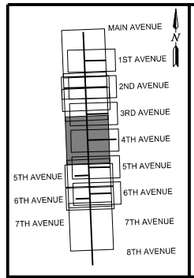
Sheyenne Street

Signing - Proposed

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	9





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Sheyenne Street

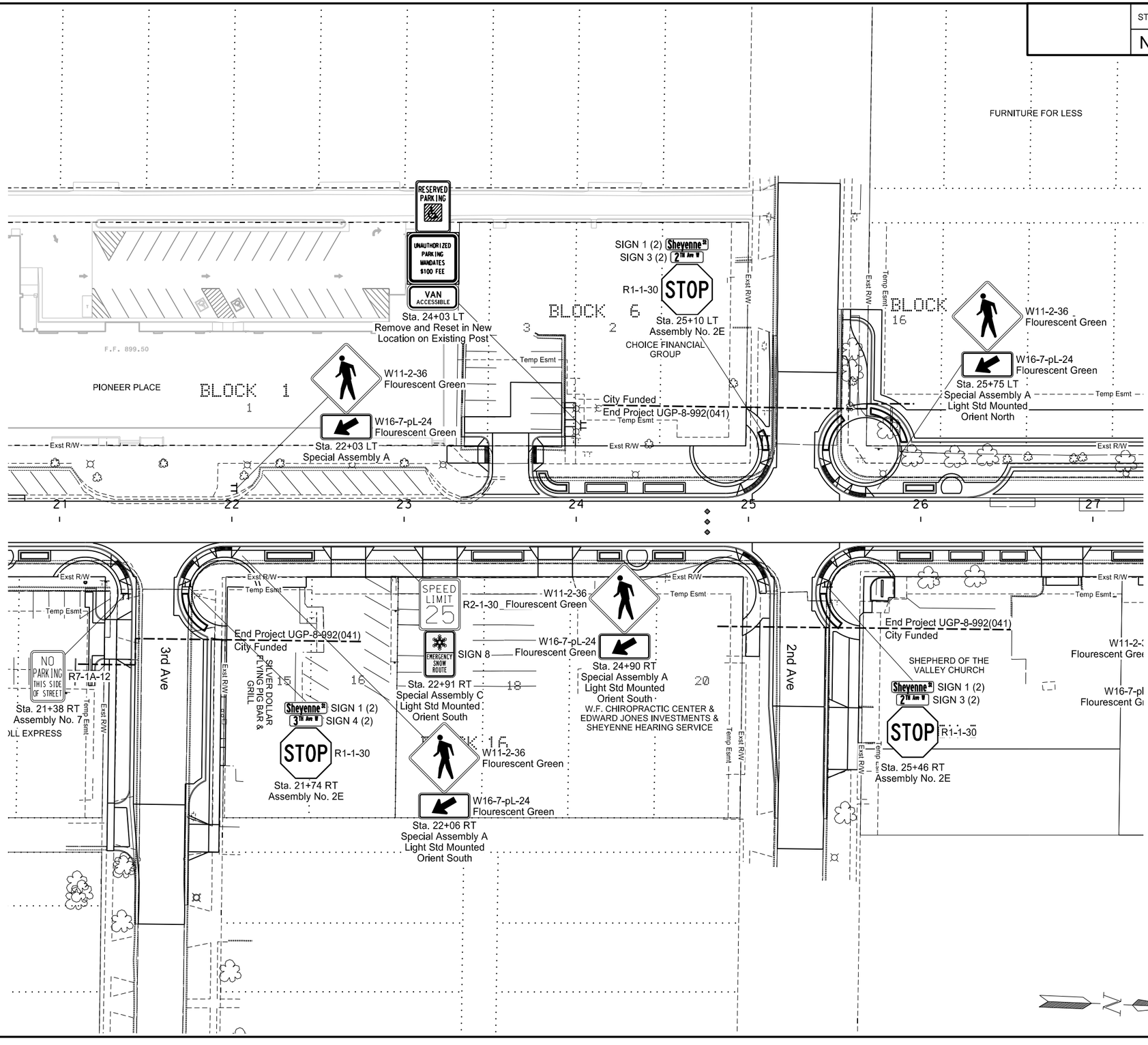
Signing - Proposed

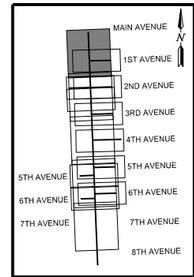
Sta 15+00 to Sta 21+00 (PRSHEYENNE)

8/15/2020 4:35:56 PM dylan.dunn U:\PROJECTS\19924\08992.041\Design\Plan\110SN_009_Proposed.dgn

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	110	10

SPEC CODE	BID ITEM	QTY	UNIT
754 0592	RESET SIGN PANEL		
	Sta 22+03' Lt (Choice Bank)	1	EA





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Sheyenne Street

Signing - Proposed

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	11

FOR LESS

BLOCK 1

14 13 12 11 10 9 7

FURNITURE FOR LESS

BERNIE'S WINE & LIQUORS

W11-2-36
Flourescent Green

W16-7-pL-24
Flourescent Green

Sta. 29+37 LT
Special Assembly A
Light Std Mounted
Orient North

Temp Esmt

Exst R/W

4

BLOCK 1

5 6

SANDY'S DONUTS

SPEED LIMIT 25 R2-1-30

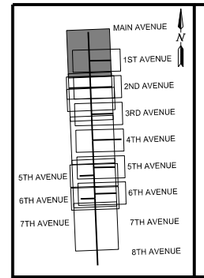
R5-2-24

Sta. 30+38 LT
Assembly No. 10
Light Std Mounted
Orient North

Sta. 31+13 LT
Assembly No. 14
Light Std Mounted
Orient North

27 28 Sheyenne St 29 30 31 32

Exst R/W
Temp Esmt
W11-2-36
Flourescent Green
W16-7-pL-24
Flourescent Green
Sta. 28+52 RT
Special Assembly A
Light Std Mounted
Orient South
WESTSIDE WELLNESS & DASCH'S DUDS
LYNX LOGISTICS
BLOCK 9
DEAD END W14-1-30
Sta. 28+79 RT
Assembly No. 19
NO PARKING THIS SIDE OF STREET R7-1A-12
Sta. 28+83 RT
Assembly No. 7
1st Ave
End Project UGR-8-992(041)
City Funded
CLASSIC FLORAL
13
Sheyenne St
1st Ave
SIGN 1 (2)
SIGN 2 (2)
STOP R1-1-30
12
Sta. 29+16 RT
Assembly No. 2E
JCT M2-1-21
CASS 17 COUNTY M1-6-24
M6-1R-21
Sta. 29+50 RT
Assembly No. 437
Light Std Mounted
Orient South
14
1
CENEX
2
3
U.S. Hwy No. 10 & 52 -
Main Ave W



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Sheyenne Street

Signing - Proposed

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

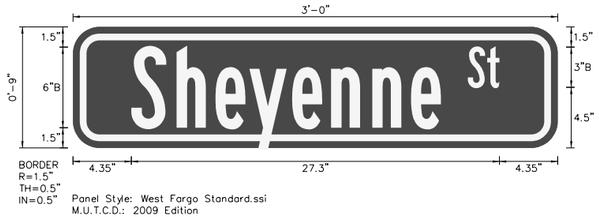
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	110	12

SIGN NUMBER	SIGN 8
WIDTH X HEIGHT	3'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):

AREA: 2.3 Sq.Ft.



Panel Style: West Fargo Standard.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: West Fargo Standard.ssl

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
S	h	e	y	e	n	n	e	S	t										27.3	6/4.5 3/2.3	B 2000
4.3	7.7	10.6	13.1	16.3	19.2	22.2	25.1	29.3	30.8												

SIGN NUMBER	SIGN 3
WIDTH X HEIGHT	2'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
25+10 LT
25+46 RT

AREA: 1.5 Sq.Ft.



Panel Style: West Fargo Standard.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: West Fargo Standard.ssl

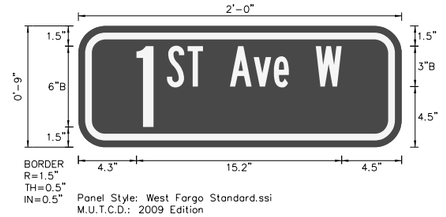
LETTER POSITION (X)																			LENGTH	SIZE	SERIES
2	N	D	A	v	e	W													17.1	6, 3/2.3	B 2000
3.4	7	9	12.2	14	15.5	18.6															

SIGN NUMBER	SA-1D
WIDTH X HEIGHT	2'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
679+53LT
680+18RT

AREA: 1.5 Sq.Ft.



Panel Style: West Fargo Standard.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: West Fargo Standard.ssl

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
1	S	T	A	v	e	W													15.2	6, 3/2.3	B 2000
4.3	6.6	8.1	11.3	13	14.5	17.6															

SIGN NUMBER	SIGN 4
WIDTH X HEIGHT	2'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
21+74 RT

AREA: 1.5 Sq.Ft.



Panel Style: West Fargo Standard.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: West Fargo Standard.ssl

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
3	R	D	A	v	e	W													16.9	6, 3/2.3	B 2000
3.5	7.1	8.9	12.2	13.9	15.4	18.5															

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Sheyenne Street

Signing

Post Mounted Signs

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	110	13

SIGN NUMBER	SIGN 5
WIDTH X HEIGHT	2'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
18+04 RT

AREA: 1.5 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: West Fargo Standard.ssi

LETTER POSITION (X)																		LENGTH	SIZE	SERIES
4	T	H	A	v	e	W												17.1	6, 3/2.3	B 2000
3.5	7.4	9	12.3	14	15.5	18.6														

SIGN NUMBER	SIGN 6
WIDTH X HEIGHT	2'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
12+90 LT
14+33 RT

AREA: 1.5 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE:

LETTER POSITION (X)																		LENGTH	SIZE	SERIES
5	T	H	A	v	e	W												16.7	6, 3/2.3	B 2000
3.6	7.2	8.8	12.1	13.8	15.3	18.4														

SIGN NUMBER	SIGN 7
WIDTH X HEIGHT	2'-0" x 0'-9"
BORDER WIDTH	0.5" (inset 0.5")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
9+68 LT
10+71 RT

AREA: 1.5 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: West Fargo Standard.ssi

LETTER POSITION (X)																		LENGTH	SIZE	SERIES
6	T	H	A	v	e	W												16.7	6, 3/2.3	B 2000
3.6	7.2	8.8	12.1	13.8	15.3	18.4														

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Sheyenne Street

Signing

Post Mounted Signs

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	14

SIGN NUMBER	Sign 8
WIDTH X HEIGHT	1'-0" x 1'-6"
BORDER WIDTH	0.38" (inset 0.38")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Non-reflective
	COLOR: Black

SYMBOL	X	Y	WID	HT	ANGLE
ND_RED BACK_1	.04	9.5	11.2	8.1	0
ND_SNOW FLAKE	3.4	10.0	5.2	6.0	0

STATION(S)
9+55 RT
17+67 RT
22+91 RT

AREA: 1.50 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE:

LETTER POSITION (X)																		LENGTH	SIZE	SERIES
E	M	E	R	G	E	N	C	Y										9.6	2	B 2000
1.2	2.2	3.5	4.4	5.5	6.6	7.6	8.7	9.7												
S	N	O	W															4.7	2	B 2000
3.6	4.8	6.0	7.1																	
R	O	U	T	E														5.2	2	B 2000
3.4	4.5	5.7	6.8	7.9																

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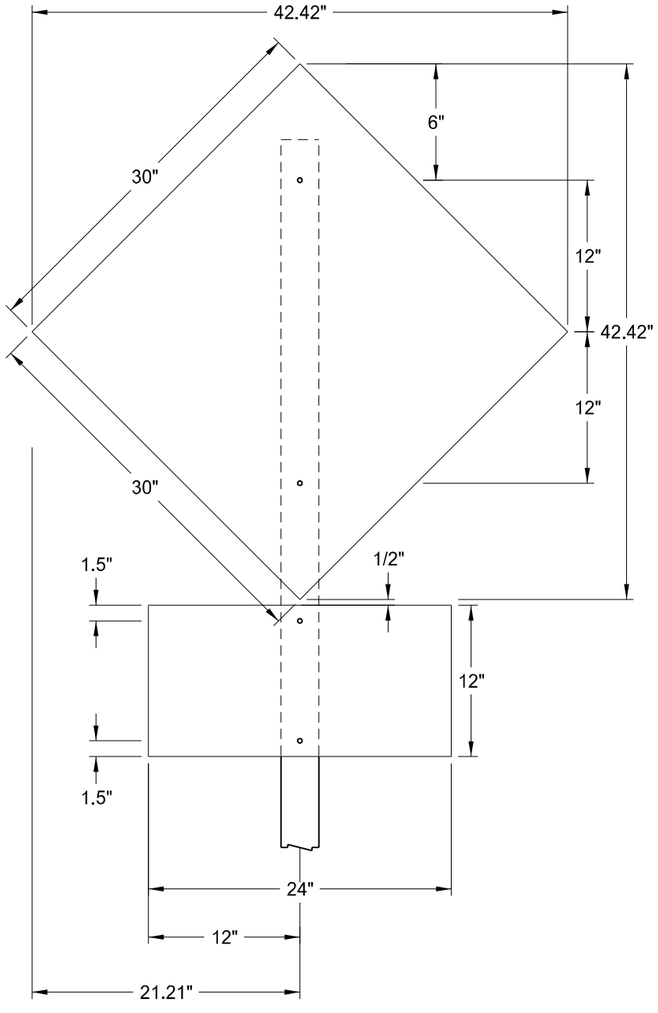
Sheyenne Street

Signing

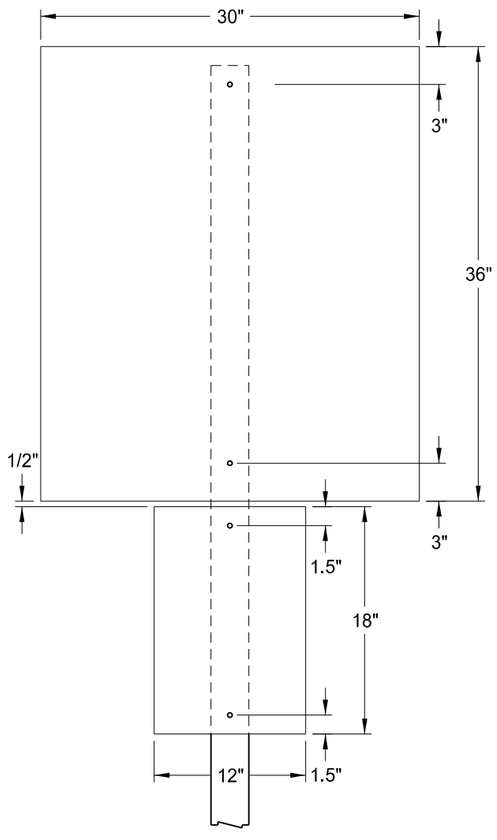
Post Mounted Signs

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	15



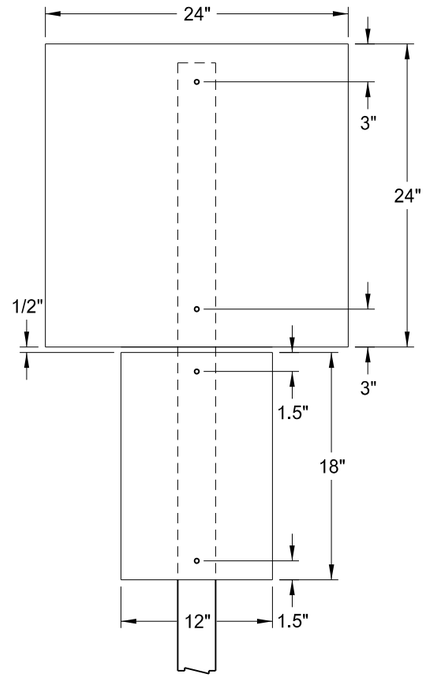
SPECIAL ASSEMBLY A
NO SCALE
10+11 RT
10+36 LT
14+57 LT
14+60 RT
17+60 RT
18+38 LT
22+03 LT
22+06 RT
24+90 RT
25+75 LT
28+52 RT
29+37 LT

NOTES:
Design Area: 8.25 SF
Pay Area: 8.25 SF



SPECIAL ASSEMBLY C
NO SCALE
17+67 RT
22+91 RT

NOTES:
Design Area: 9.00 SF
Pay Area: 9.00 SF



SPECIAL ASSEMBLY B
NO SCALE
9+55 RT

NOTES:
Design Area: 5.50 SF
Pay Area: 5.50 SF

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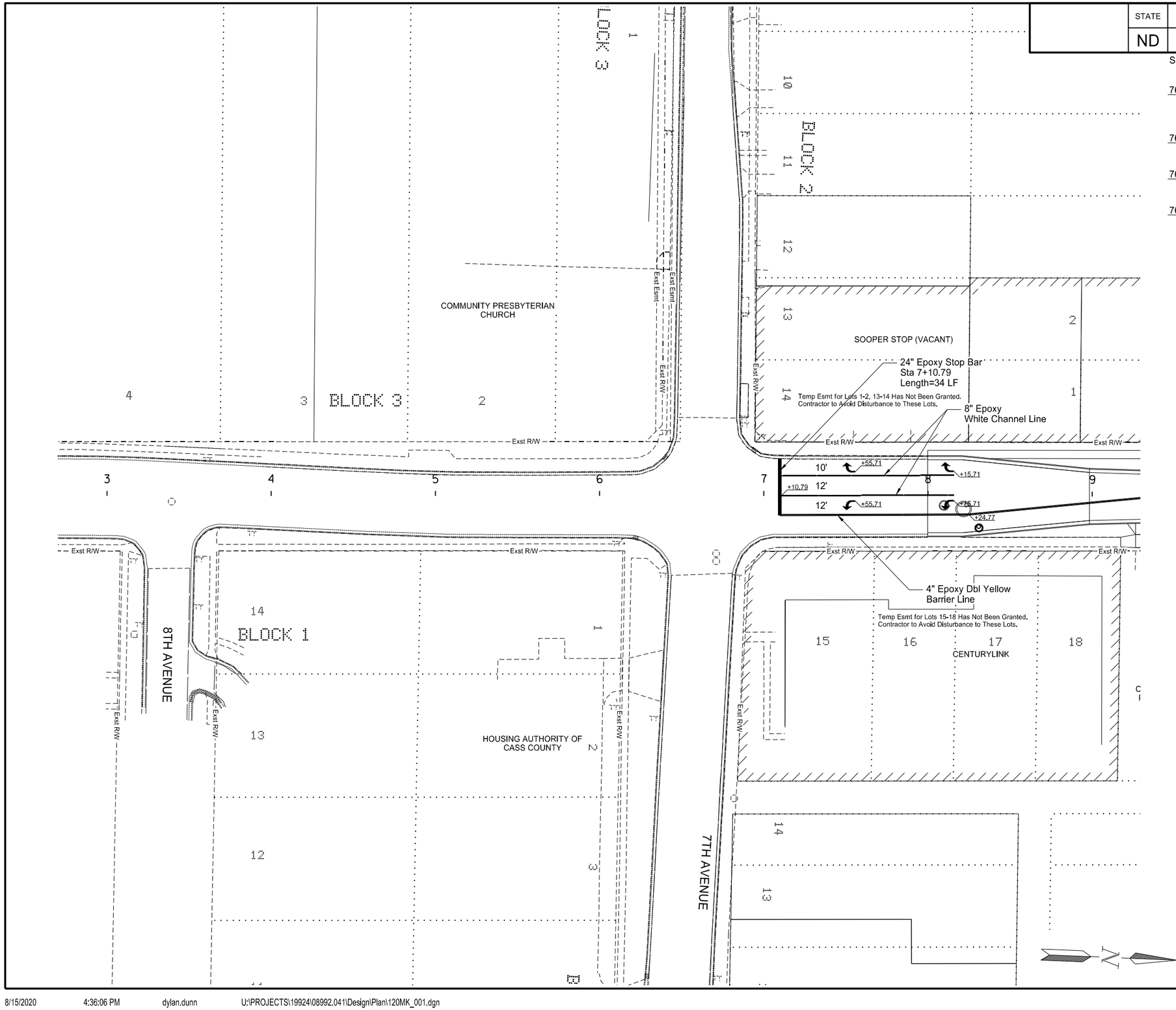
Sheyenne Street

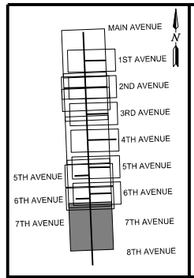
Signing

Special Assemblies

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	1

SPEC	CODE	BID ITEM	QTY	UNIT
762	0112	EPOXY PVMT MK MESSAGE		
		Left Turn Arrow	32	SF
		Right Turn Arrow	32	SF
762	0113	EPOXY PVMT MK 4IN LINE		
		Yellow Dbl Barrier	382	LF
762	0115	EPOXY PVMT MK 8IN LINE		
		White Channel Line	212	LF
762	0117	EPOXY PVMT MK 24IN LINE		
		White Stop Bar	34	LF





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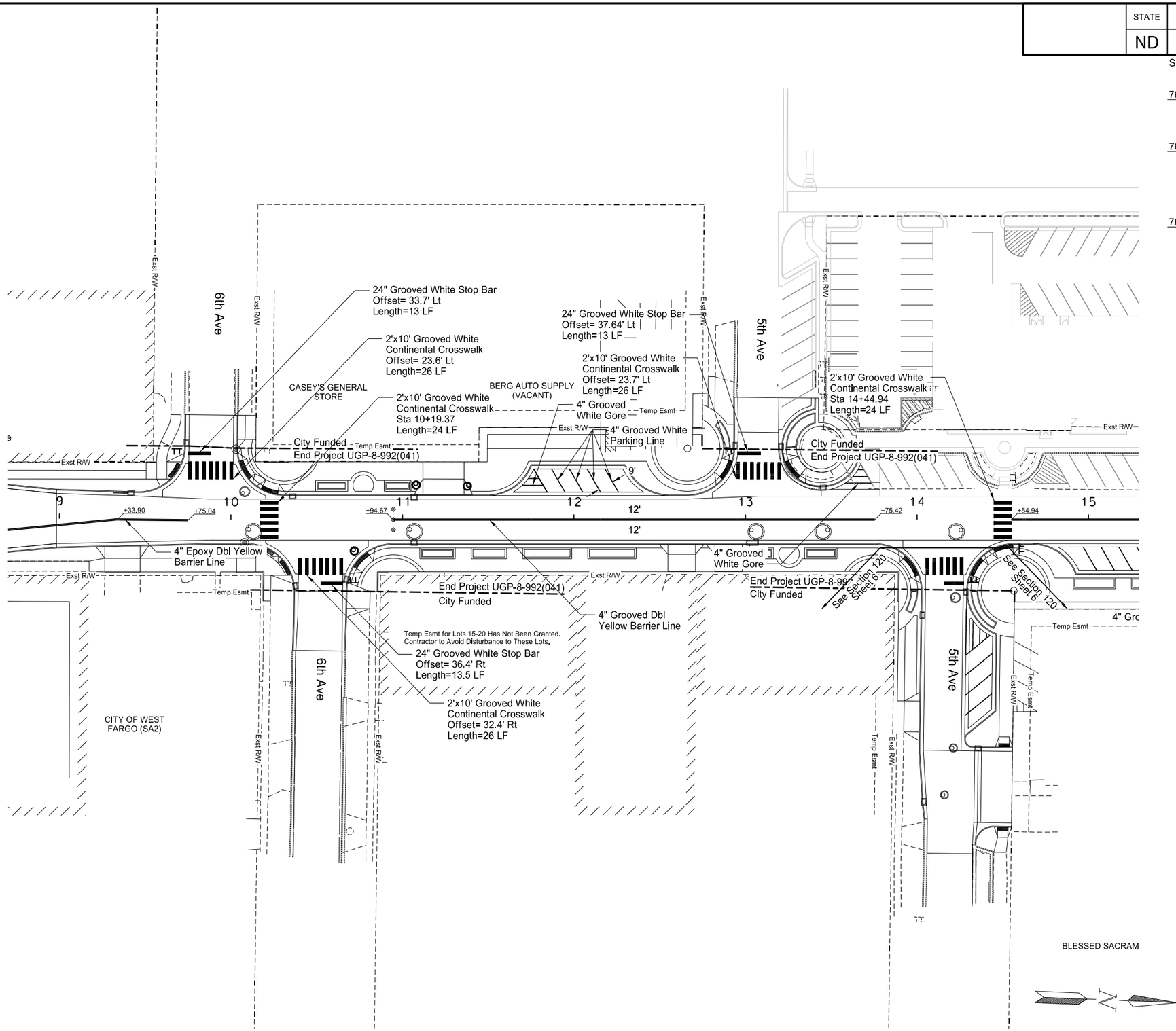
Sheyenne Street

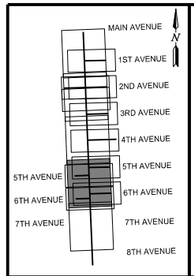
Pavement Marking

Sta 3+00 to Sta 9+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	120	2

SPEC	CODE	BID ITEM	QTY UNIT
762	0113	EPOXY PVMT MK 4IN LINE	
		Yellow Dbl Barrier	150 LF
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	
		Yellow Dbl Barrier	962 LF
		White Gore	95 LF
		White Parking Line	68 LF
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	
		White Continental Crosswalk	330 LF
		White Stop Bar	40 LF





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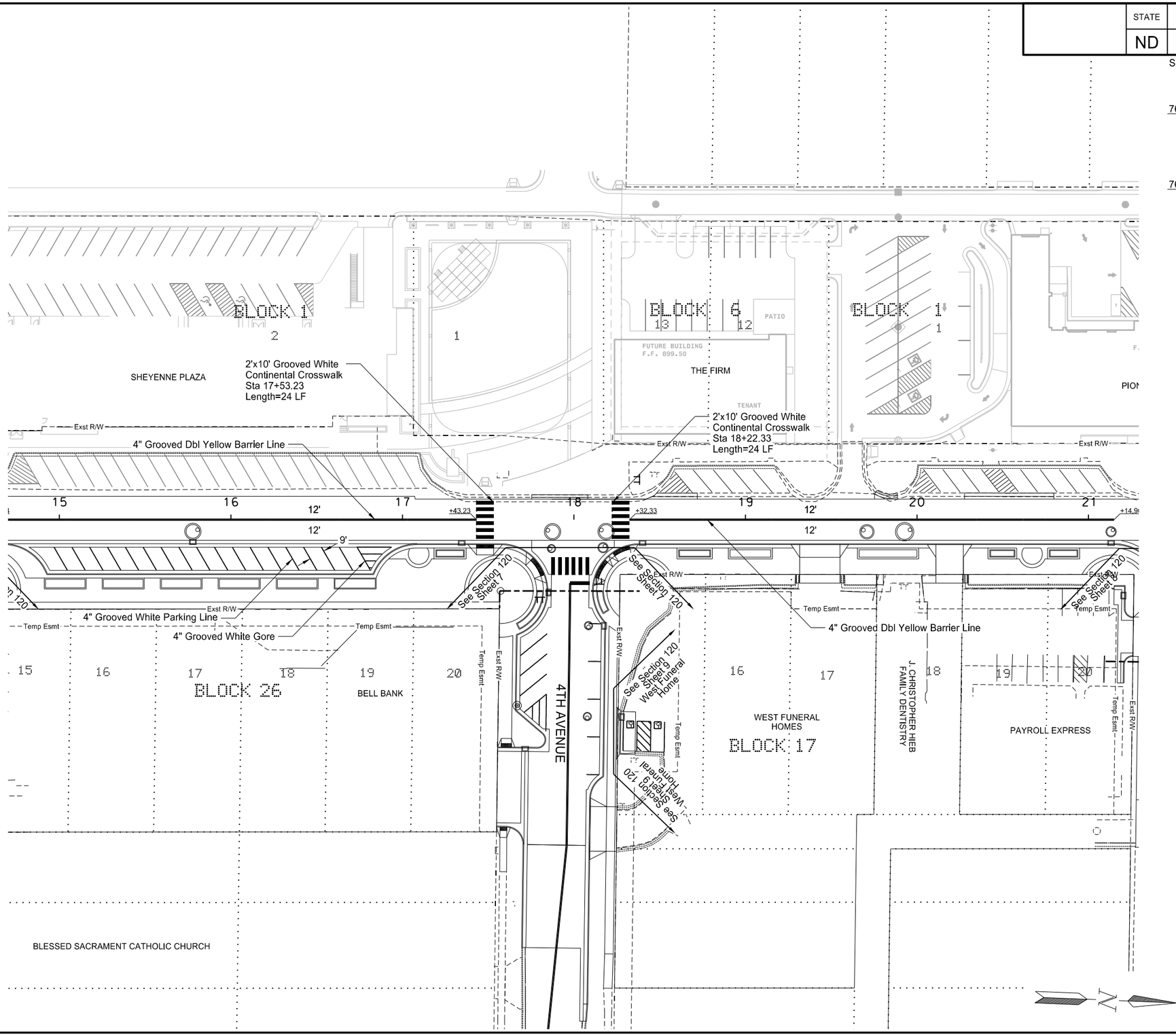
Sheyenne Street

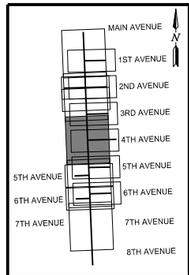
Pavement Marking

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	120	3

SPEC CODE	BID ITEM	QTY	UNIT
	PREFORMED PATTERNED PVMT MK		
762 1305	4IN LINE-GROOVED		
	Yellow Dbl Barrier	1022	LF
	White Gore	56	LF
	White Parking Line	259	LF
	PREFORMED PATTERNED PVMT MK		
762 1325	24IN LINE-GROOVED		
	White Continental Crosswalk	120	LF





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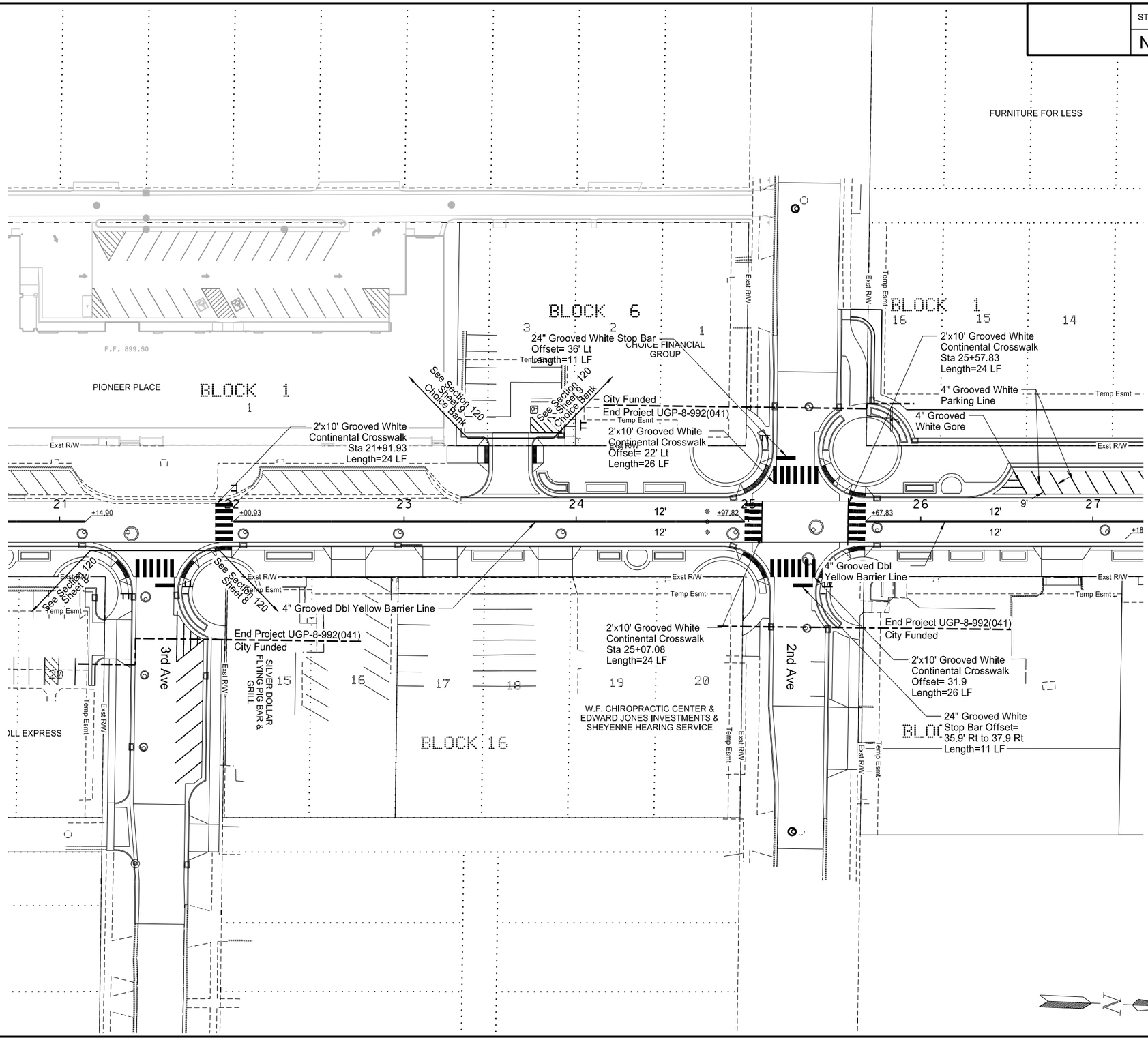
Sheyenne Street

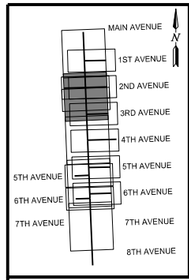
Pavement Marking

Sta 15+00 to Sta 21+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	4

SPEC CODE	BID ITEM	QTY	UNIT
762 1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED		
	Yellow Dbl Barrier	888	LF
	White Gore	56	LF
	White Parking Line	127	LF
762 1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED		
	White Continental Crosswalk	370	LF
	White Stop Bar	22	LF





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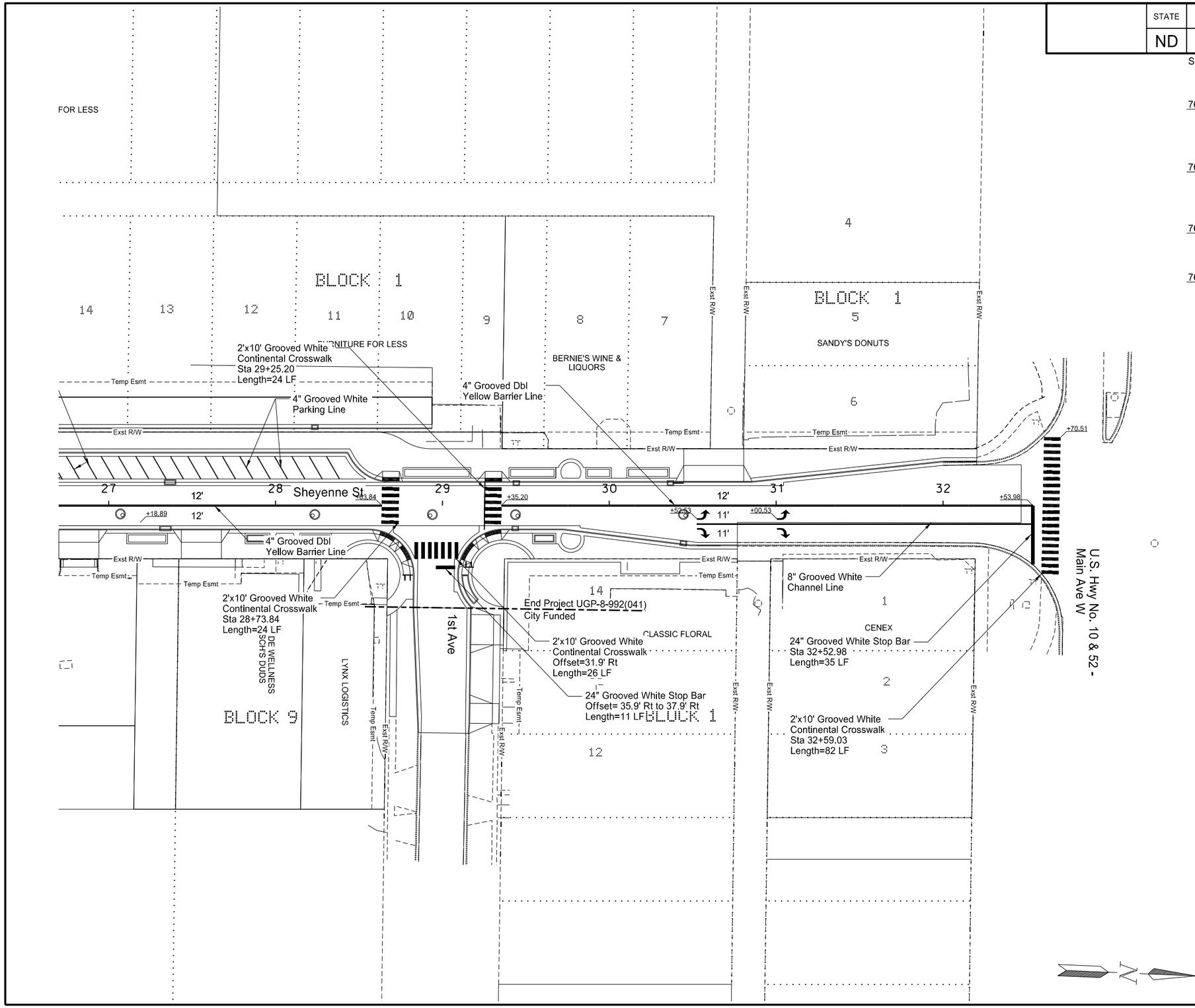
Sheyenne Street

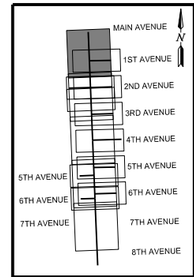
Pavement Marking

Sta 21+00 to Sta 27+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	5

SPEC CODE	BID ITEM	QTY	UNIT
762 0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)		
	Left Turn Arrow	32	SF
	Right Turn Arrow	32	SF
762 1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED		
	Yellow Dbl Barrier	966	LF
	White Parking Line	242	LF
762 1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED		
	White Channel Line	201	LF
762 1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED		
	White Continental Crosswalk	400	LF
	White Stop Bar	46	LF





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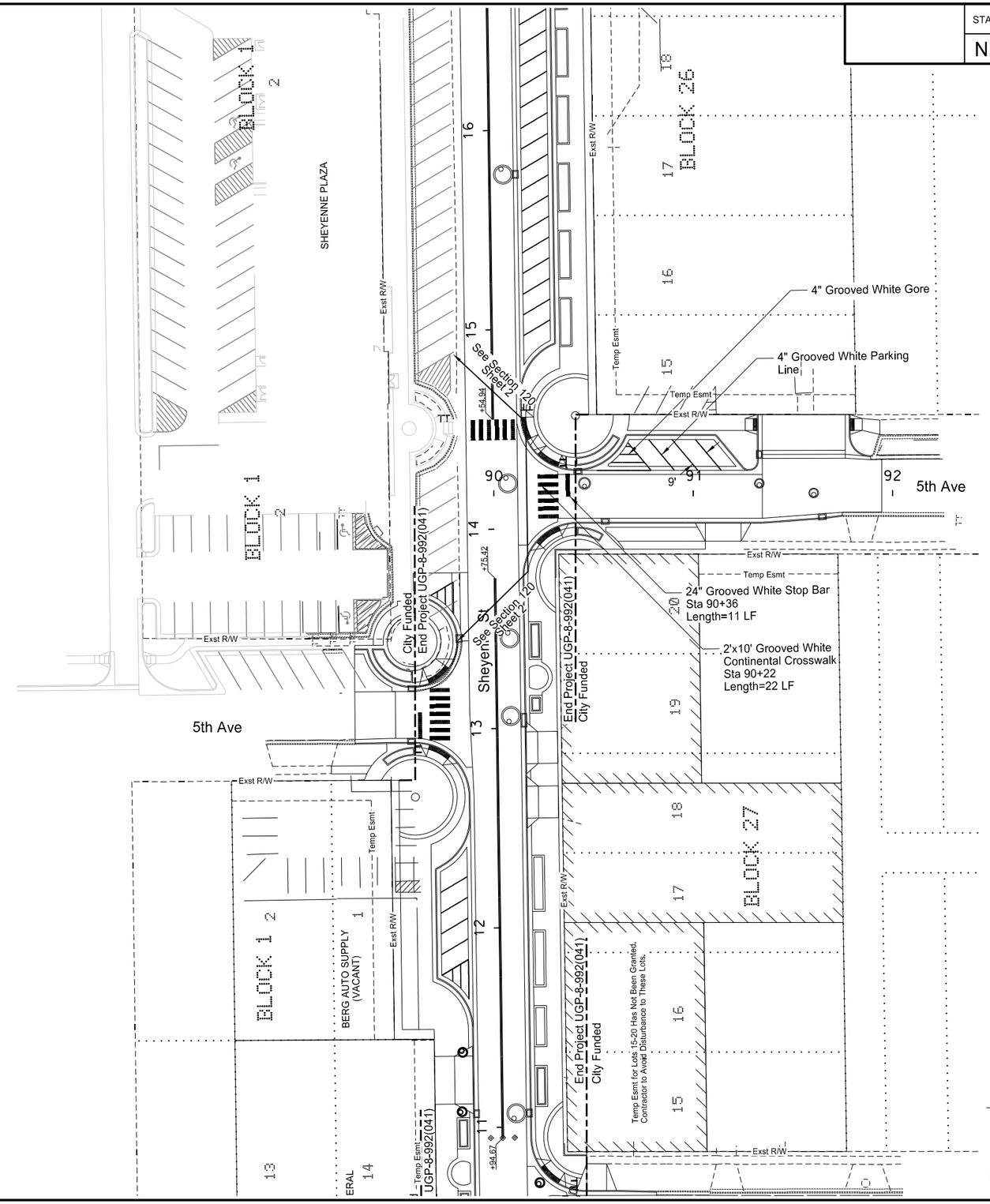
Sheyenne Street

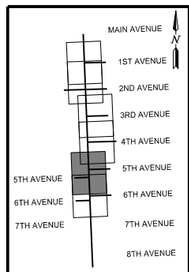
Pavement Marking

Sta 27+00 to Sta 33+00 (PRSHEYENNE)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	6

SPEC CODE	BID ITEM	QTY	UNIT
	PREFORMED PATTERNED PVMT MK		
762 1305	4IN LINE-GROOVED		
	White Gore (City Funded)	74	LF
	White Parking Line (City Funded)	61	LF
	PREFORMED PATTERNED PVMT MK		
762 1325	24IN LINE-GROOVED		
	White Continental Crosswalk	60	LF
	White Stop Bar	11	LF





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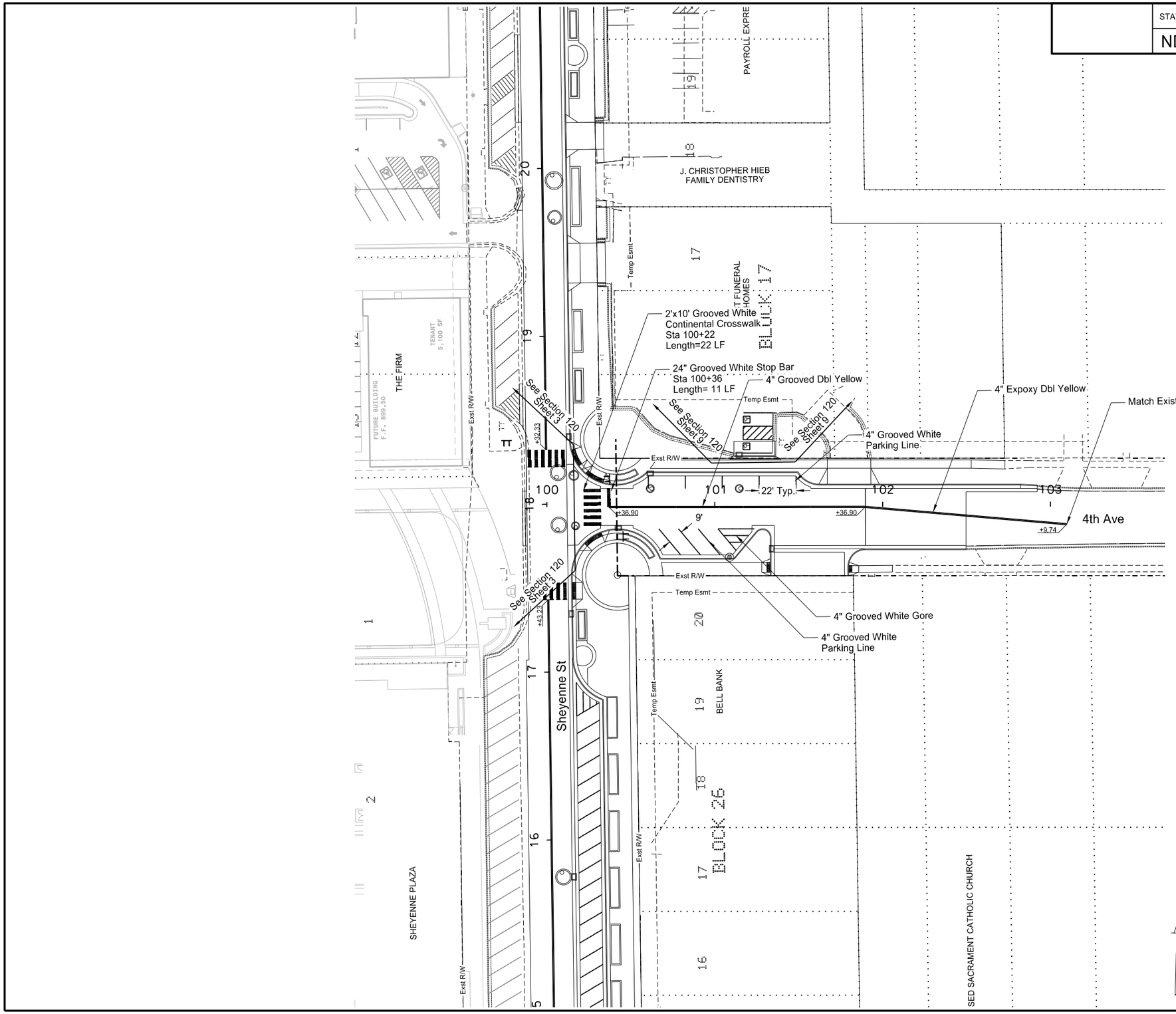
5th Ave

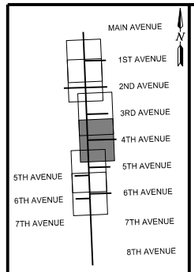
Pavement Marking

Sta 90+00 to Sta 92+00 (PR5TH_E)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	7

SPEC	CODE	BID ITEM	QTY	UNIT
762	0113	EPOXY PVMT MK 4IN LINE		
		Yellow Dbl Barrier	546	LF
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED		
		White Gore	62	LF
		White Parking Line	60	LF
		White Parking Lane	38	LF
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED		
		White Continental Crosswalk	60	LF
		White Stop Bar	11	LF





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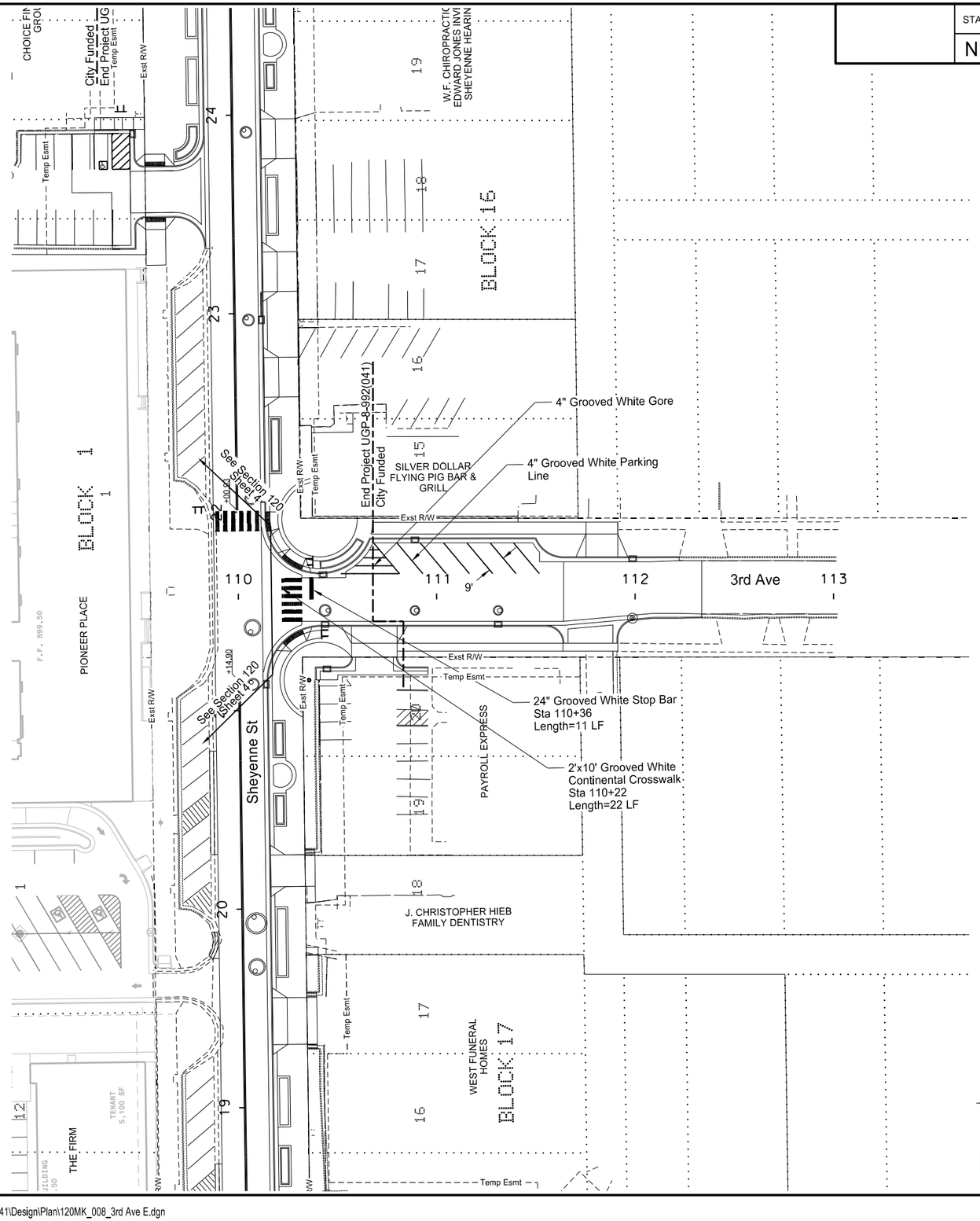
4th Ave

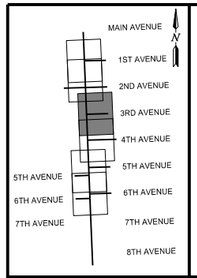
Pavement Marking

Sta 100+00 to Sta 103+00 (PR4TH)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	8

SPEC CODE	BID ITEM	QTY	UNIT
	PREFORMED PATTERNED PVMT MK		
762 1305	4IN LINE-GROOVED		
	White Gore (City Funded)	85	LF
	White Parking Line (City Funded)	120	LF
	PREFORMED PATTERNED PVMT MK		
762 1325	24IN LINE-GROOVED		
	White Continental Crosswalk	60	LF
	White Stop Bar	11	LF





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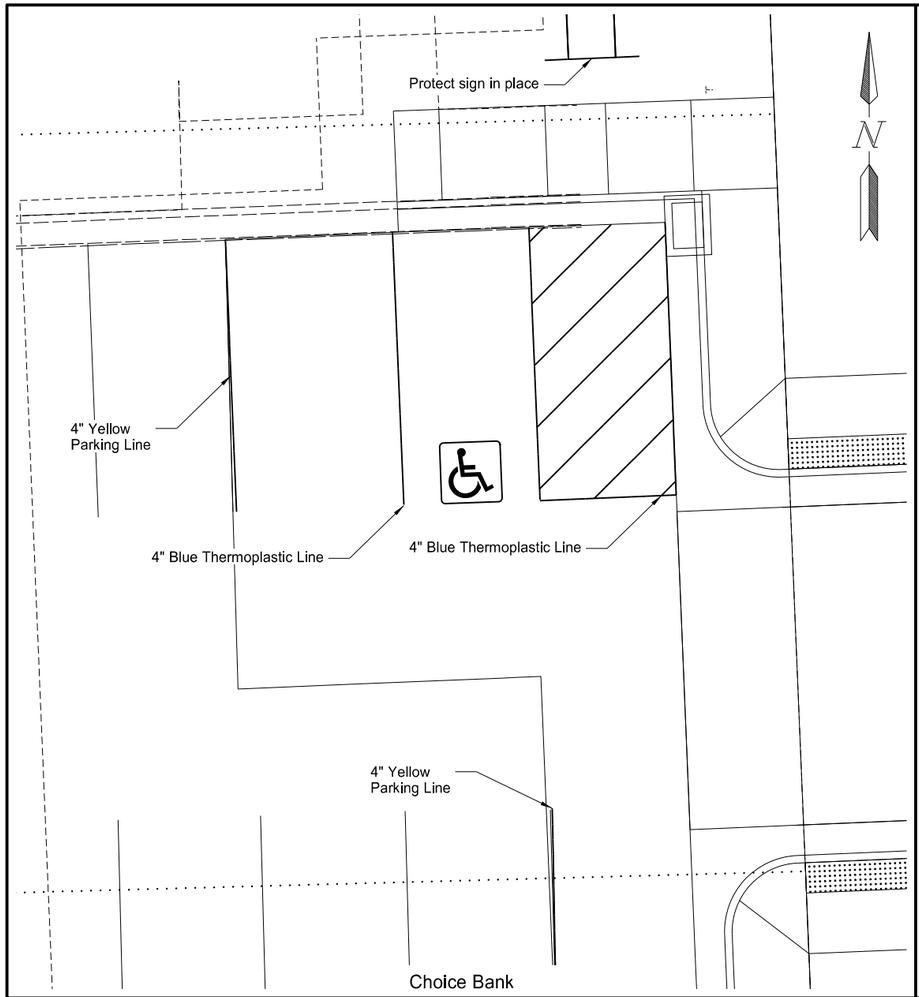
3rd Ave

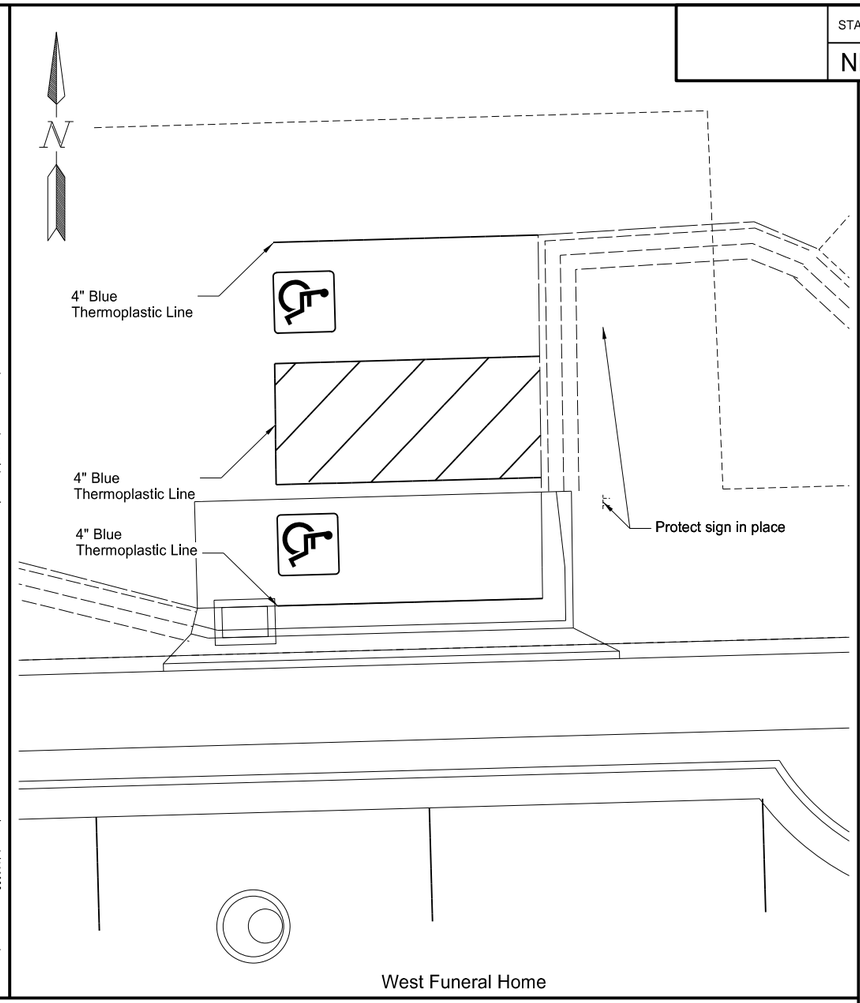
Pavement Marking

Sta 110+00 to Sta 113+00 (PR3RD)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	120	9



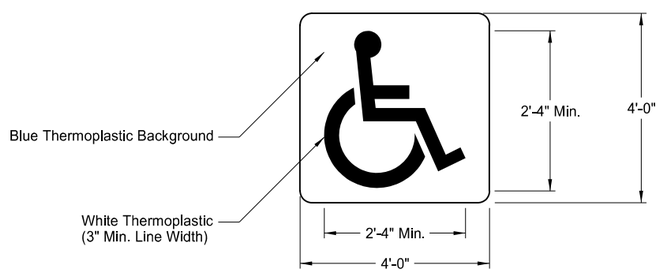
Choice Bank



West Funeral Home

SPEC	CODE	BID ITEM	QTY	UNIT
762	0113	EPOXY PVMT MK 4IN LINE		
		Yellow Parking Line	36	LF
762	1250	PREFORMED THERMO PLASTIC PVMT MK 4IN		
		Blue Edge/Handicap Stall Parking Lines (Choice Bank)	118	LF
		Blue Edge/Handicap Stall Parking Lines (West Funeral Home)	125	LF
762	1280	PREFORMED THERMO PLASTIC PVMT MK MESSAGE		
		Handicap Symbol (Choice Bank)	16	SF
		Handicap Symbol (West Funeral Home)	32	SF

Handicap Symbol



16 SF

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Sheyenne Street

Pavement Markings

First Choice Financial & Bell Bank

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	140	1

PLAN NOTES (SHEETS 1-5):

1. DISCONNECT AND REMOVE EXISTING FEEDPOINT, REPLACE WITH NEW FEEDPOINT AS DESCRIBED IN PLAN NOTES. COORDINATE W/XCEL ENERGY TO INSTALL NEW SECONDARY SERVICE CONDUCTORS TO THE LINE SIDE OF METER SOCKET (200A).

2. EXISTING 2"C., WITH (2) 60 AMP RATED MULTI-WIRE BRANCH CIRCUITS TO REMAIN. EACH MULTI-WIRE CIRCUIT CONSISTS OF (2)#6 PHASE CONDUCTORS, (1)#6 NEUTRAL +#66. THESE (2) EXISTING HOMERUNS TO THE FEEDPOINT LOCATION SHALL BE REUSED TO SERVE CIRCUIT #1 AND CIRCUIT #2. PULL IN AN ADDITIONAL (1)#6 PHASE CONDUCTOR FROM FEEDPOINT TO EXISTING JUNCTION BOX TO SERVE THE NORTH CIRCUIT #2 POLE RECEPTACLE CIRCUIT.

3. THE EXISTING MULTI-WIRE BRANCH CIRCUIT IN PLACE FOR THE (12) EXISTING POLE ASSEMBLIES SHALL BE EXTENDED TO NEW POLES AS SHOWN. THE RECEPTACLE AT THE NEW POLES SHALL BE TAPPED AT ALTERNATING PHASE CONDUCTORS.

4. INTERCEPT 2" STUB-OUT AT JUNCTION POINT. EXTEND TO NEW BASE LU#11.

5. PROVIDE 2"C. FROM FEEDPOINT LOCATION TO NEW BASE LU#29 AND NEW BASE LU#34. PULL IN NEW LIGHT CIRCUIT CONDUCTORS AND A BRANCH CIRCUIT FOR THE RECEPTACLE CIRCUITS.

6. THE EXISTING STREET LIGHTING POLES IN PLACE FROM Sta 7+18, SOUTH TO 13TH AVE S WILL REMAIN IN PLACE (17 POLES TOTAL). PROVIDE TEMPORARY FEED TO EXISTING LIGHT CIRCUIT FROM AN EXISTING STREET LIGHTING CIRCUIT THAT ORIGINATES AT A FEEDPOINT LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF 13TH AVE S. AND SHEYENNE STREET. WIRE AND CONNECT EXISTING LIGHT POLES TO REMAIN TO THE STREET LIGHT CIRCUIT LOCATED IN THE NORTHEAST SIGNAL BASE AT THE 13TH AVE INTERSECTION AS FOLLOWS:
-PULL IN 2#6 Cu.+#66 FROM THE NORTHEAST SIGNAL BASE TO THE NORTHWEST SIGNAL BASE AT THE INTERSECTION UTILIZING THE SPARE 2"C. BETWEEN THE BASES.
-PROVIDE A #6 TRIPLEX OVERHEAD SPAN FROM THE NORTHWEST SIGNAL STANDARD TO THE LIGHT POLE ADJACENT TO THE SIGNAL BASE. THE TRIPLEX SHALL ENTER SIGNAL POLE AT UPPER HAND HOLE AND ENTER THE LIGHT POLE AT SPACE AT BASE OF POLE.
-THE UNDERGROUND CIRCUIT BETWEEN THE LIGHT POLE ADJACENT TO NORTHWEST SIGNAL BASE AND THE ADJACENT POLE TO THE NORTH IS OUT OF SERVICE DUE TO DAMAGE THAT OCCURRED WHEN PARKING LOT ENTRANCE FROM SHEYENNE STREET WAS CONSTRUCTED. THE ELECTRICAL CONTRACTOR SHALL REPAIR THE EXISTING UNDERGROUND CIRCUIT, INTERCEPT EXISTING CIRCUIT, PROVIDE IN-GROUND J-POINT AND PROVIDE NEW BURIED CABLING TO EXISTING POLE AS REQUIRED.
-WIRE AND CONNECT THE EXISTING STREET LIGHTING CIRCUIT TO THE EXISTING CIRCUIT IN PLACE AT THE NORTHEAST SIGNAL BASE. THIS CONNECTION WILL REMAIN IN PLACE UNTIL THE PHASE 1 PROJECT IS COMPLETE. WHEN PHASE 1 IS COMPLETE, DISCONNECT AND REMOVE THE TEMPORARY CONNECTION. PROVIDE PERMANENT CONNECTION FROM THE NEW CIRCUITS LU#33 TO THE EXISTING POLE LOCATED AT Sta 07+18, VIA 2"C., (4)#6+#66.

7. ELECTRICAL CONTRACTOR TO PROVIDE (2) 2" INNERDUCT CONDUITS FOR COMMUNICATION BACKBONE CABLING AT EAST AND WEST SIDES OF SHEYENNE AVENUE, FROM THE EXISTING IN GROUND COMMUNICATION JUNCTION POINT LOCATED AT SOUTHEAST CORNER OF THE MAIN AVE / SHEYENNE STREET INTERSECTION, TO THE SOUTH CONSTRUCTION BOUNDARY 9+00. TRENCH PATHS SHALL BE ROUTE APPROXIMATELY WHERE SHOWN, AND SHALL BE AS STAKED BY FIELD ENGINEER. CONTRACTOR SHALL PULL IN A SINGLE-MODE FIBER OPTIC BACKBONE CABLE IN ONE OF THESE CONDUITS, ON EACH SIDE OF ROADWAY FROM THE EXISTING FIBER OPTIC IN GROUND JUNCTION POINT TO THE NEW IN GROUND JUNCTION POINT SHOWN IN THE AREA OF STATION 10+00. THE CABLE SHALL BE UNSPLICED FROM END TO END AND CONTRACTOR SHALL LEAVE 100' OF COILED CABLE AT EACH IN GROUND JUNCTION POINT SHOWN. THE FIBER OPTIC BACKBONE CABLE SHALL BE A 48 FIBER, SINGLE MODE, AS DESCRIBED IN PLAN NOTES. THE FIBER SHALL MATCH THAT PRESENTLY USED BY THE CITY OF WEST FARGO. ONE CONDUIT SHALL BE FOR FUTURE USE. PROVIDE NYLON PULL STRING IN SPARE 2" CONDUIT.

8. PROVIDE A 48"X36"X36"D. POLYMER CONCRETE IN GROUND J-POINT EQUAL TO QUAZITE, HOFFMAN OR APPROVED EQUAL. IN-GROUND PULL POINT SHALL BE AS LOCATED BY FIELD ENGINEER. UNITS SHALL BE GRAY IN COLOR WITH COVER STAMP OF "FIBER OPTIC." FIELD COORDINATE EXACT LOCATIONS WITH FIELD ENGINEER.

9. CONTRACTOR TO REMOVE ABANDONED CONDUIT AND WIRING AS MUCH AS IS POSSIBLE.

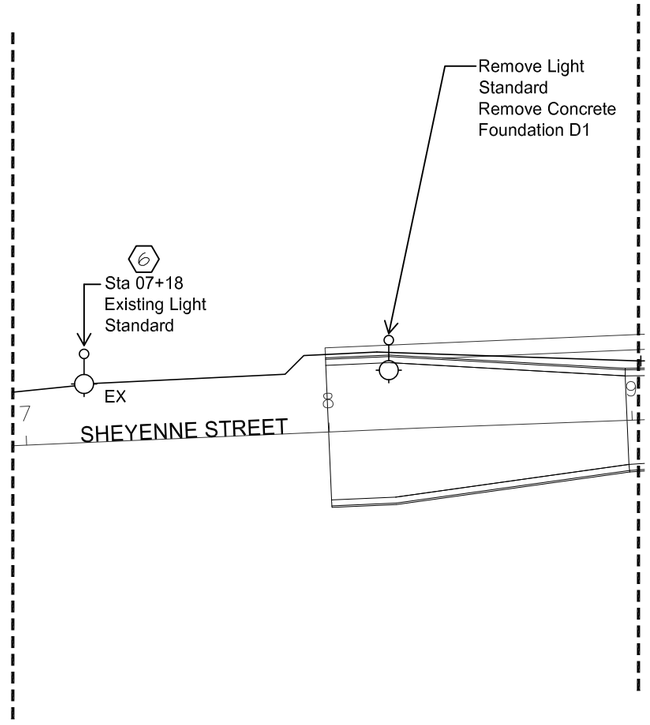
10. EXTEND THE (2) 2" INNER-DUCTS FROM JUNCTION POINT TO A POINT AS DIRECTED BY FIELD ENGINEER. SEAL FOR FUTURE USE.

11. PROVIDE 1"C. ROUGH-IN BETWEEN THE DESIGNATED GATEWAY SIGNAGE LOCATIONS.

12. PROVIDE (1) 1¼"C. FROM EACH "FOCUS AREA" TO THE NEAREST COMMUNICATION JUNCTION POINT AS SHOWN. ROUTE TO EDGE OF PAVER BLOCK INLAY. STUB-UP TO 6" BENEATH GRADE AND CAP FOR FUTURE USE FOR COMMUNICATION CABLING.

13. WIRE AND CONNECT IN-GROUND LIGHTING AT THE FOCUS AREAS TO THE ADJACENT LIGHT BASE SHOWN VIA ¾"C. WIRE AND CONNECT TO LIGHT CIRCUIT VIA (2)#10+6.

14. CONTRACTOR SHALL PROVIDE SAW-CUTS AND CONCRETE REMOVAL AS REQUIRED TO INSTALL COMMUNICATION CONDUITS TO EXISTING J-POINT VIA DIRECTIONAL BORING METHODS. REPLACE CONCRETE AS EXISTING.



Light bases shall be located as staked by Field Engineer.

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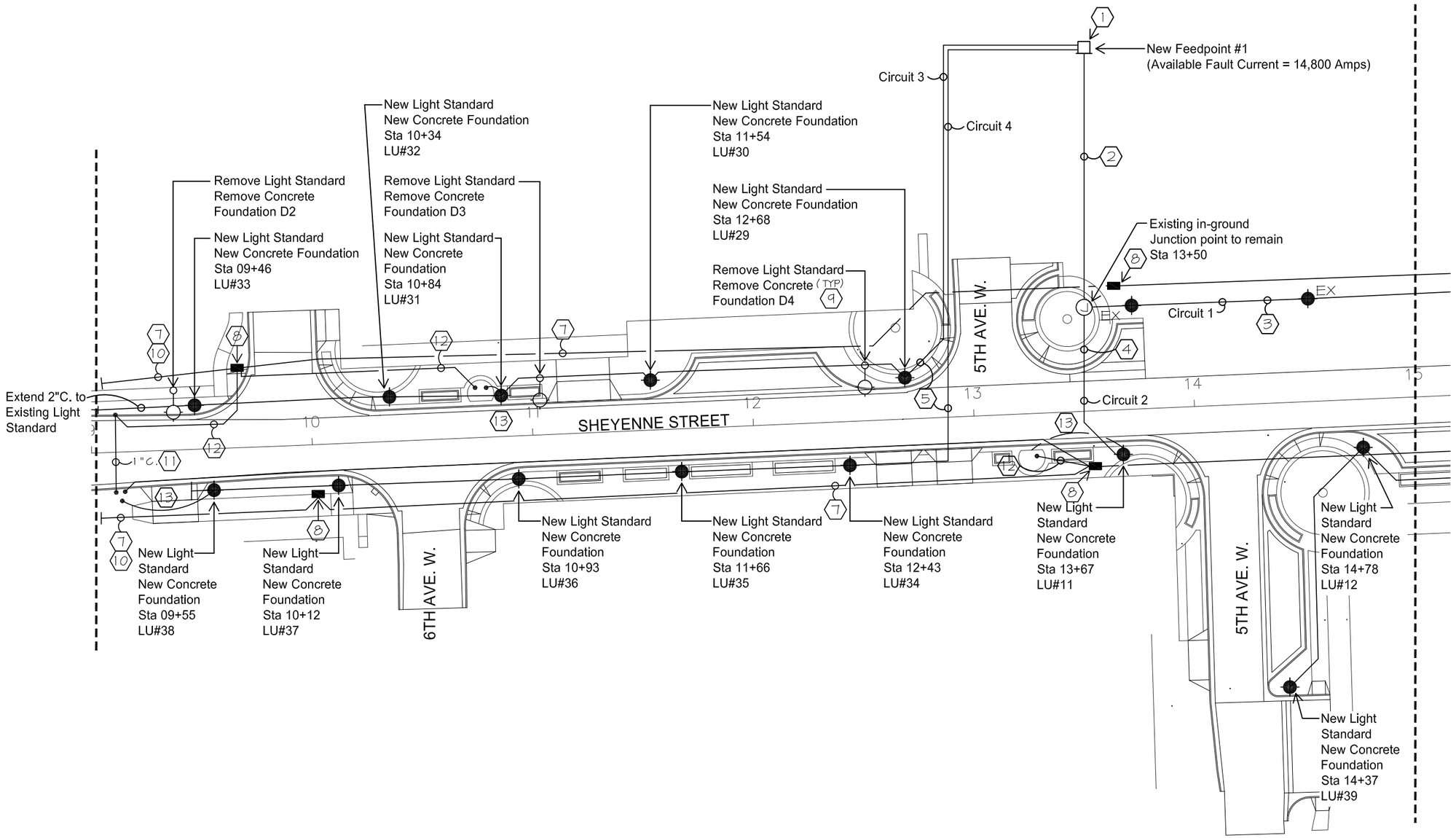
N

Sheyenne Street

Lighting / Communication

Sta 07+00 to Sta 09+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	2



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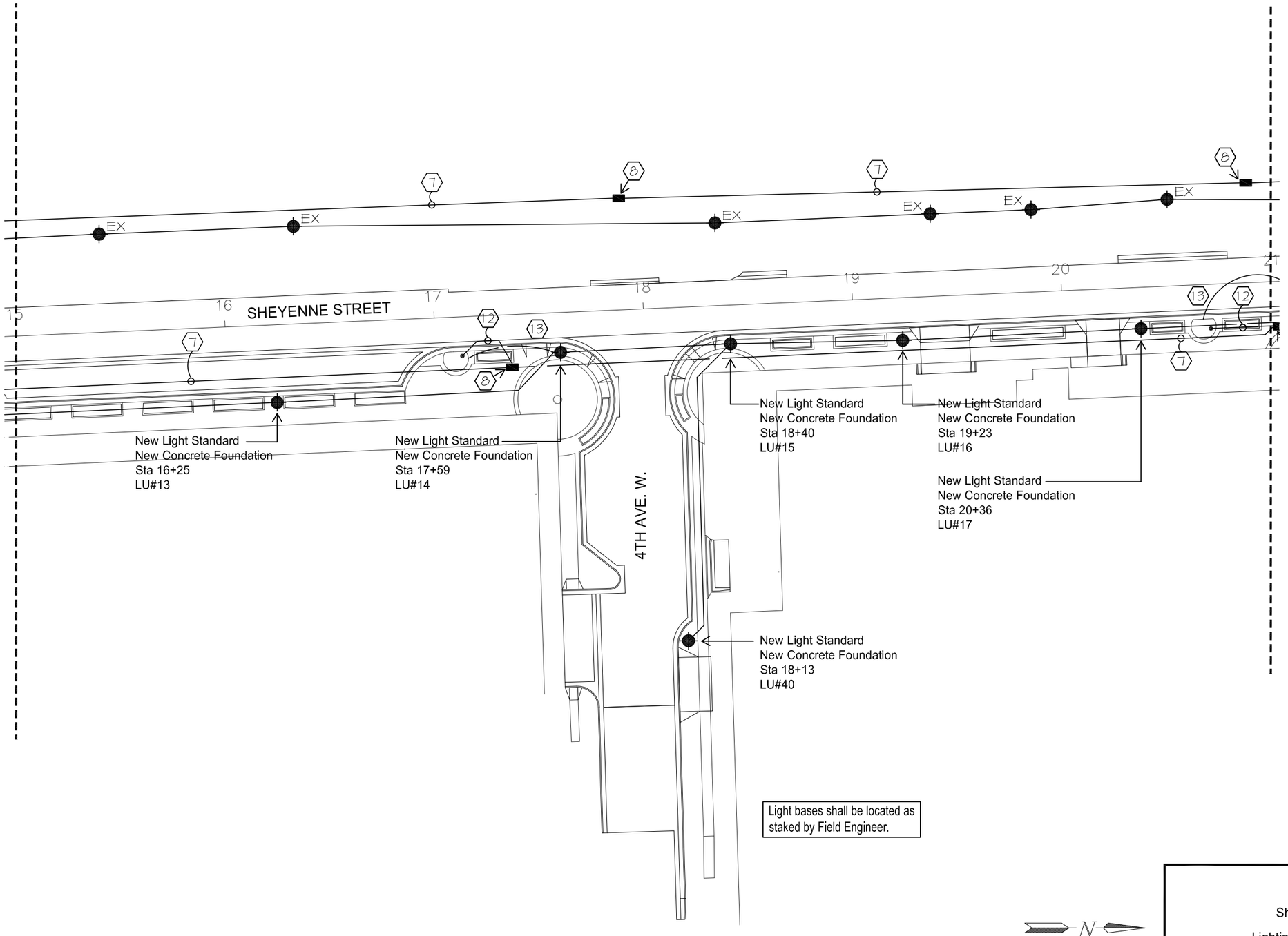
Sheyenne Street

Lighting / Communication

Sta 09+00 to Sta 15+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	3



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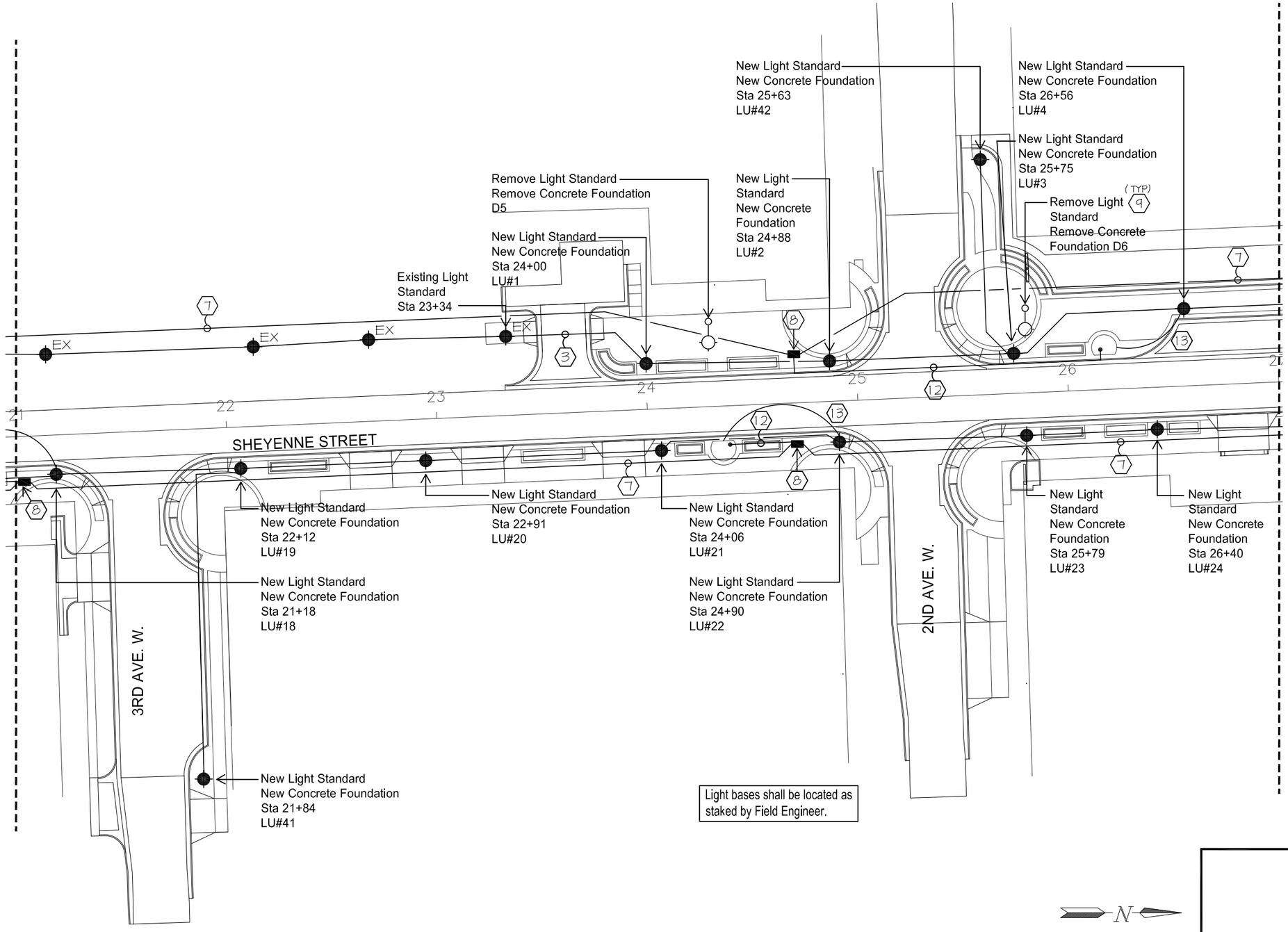
Sheyenne Street

Lighting / Communication

Sta 15+00 to Sta 21+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	4



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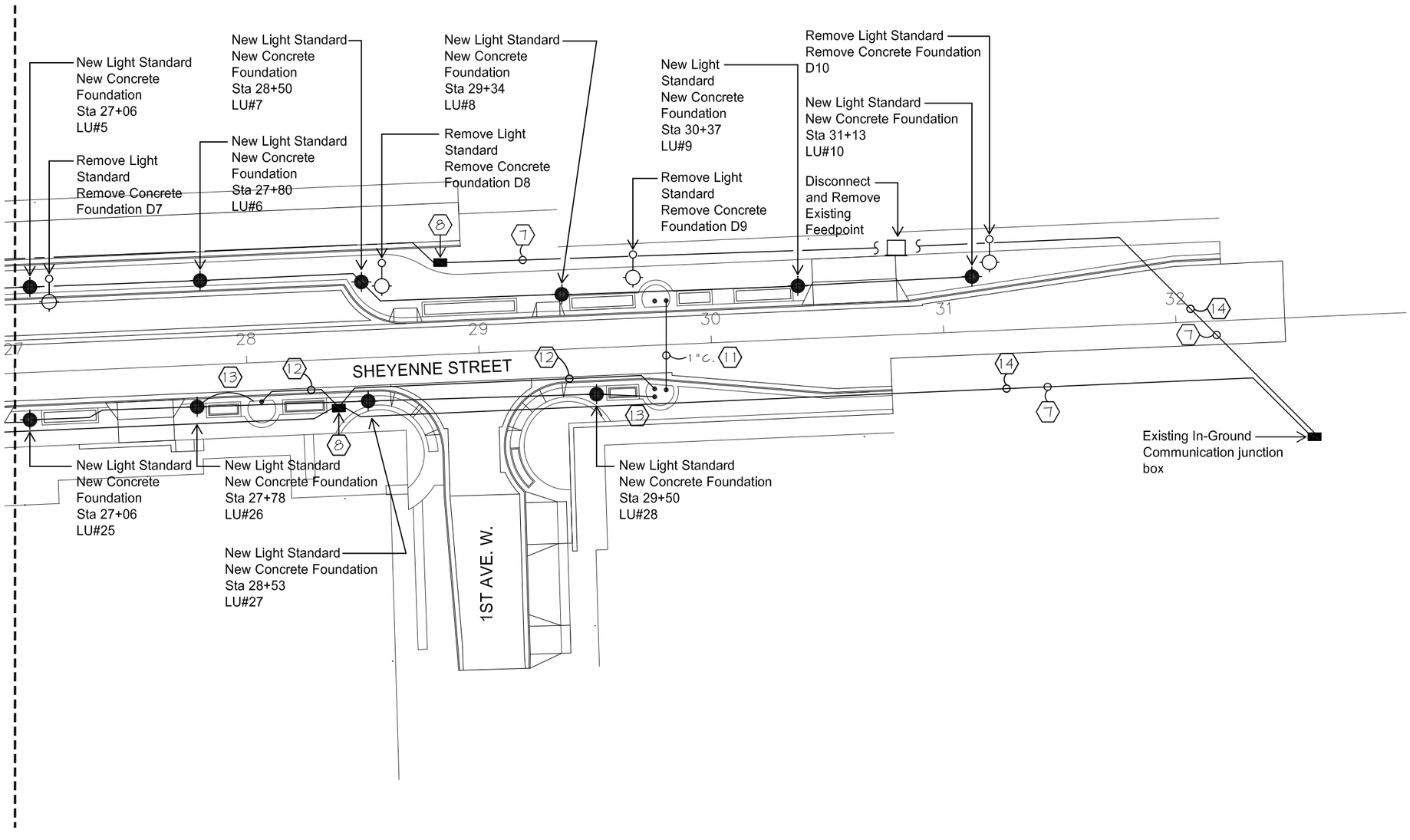
Sheyenne Street

Lighting / Communication

Sta 21+00 to Sta 27+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	5



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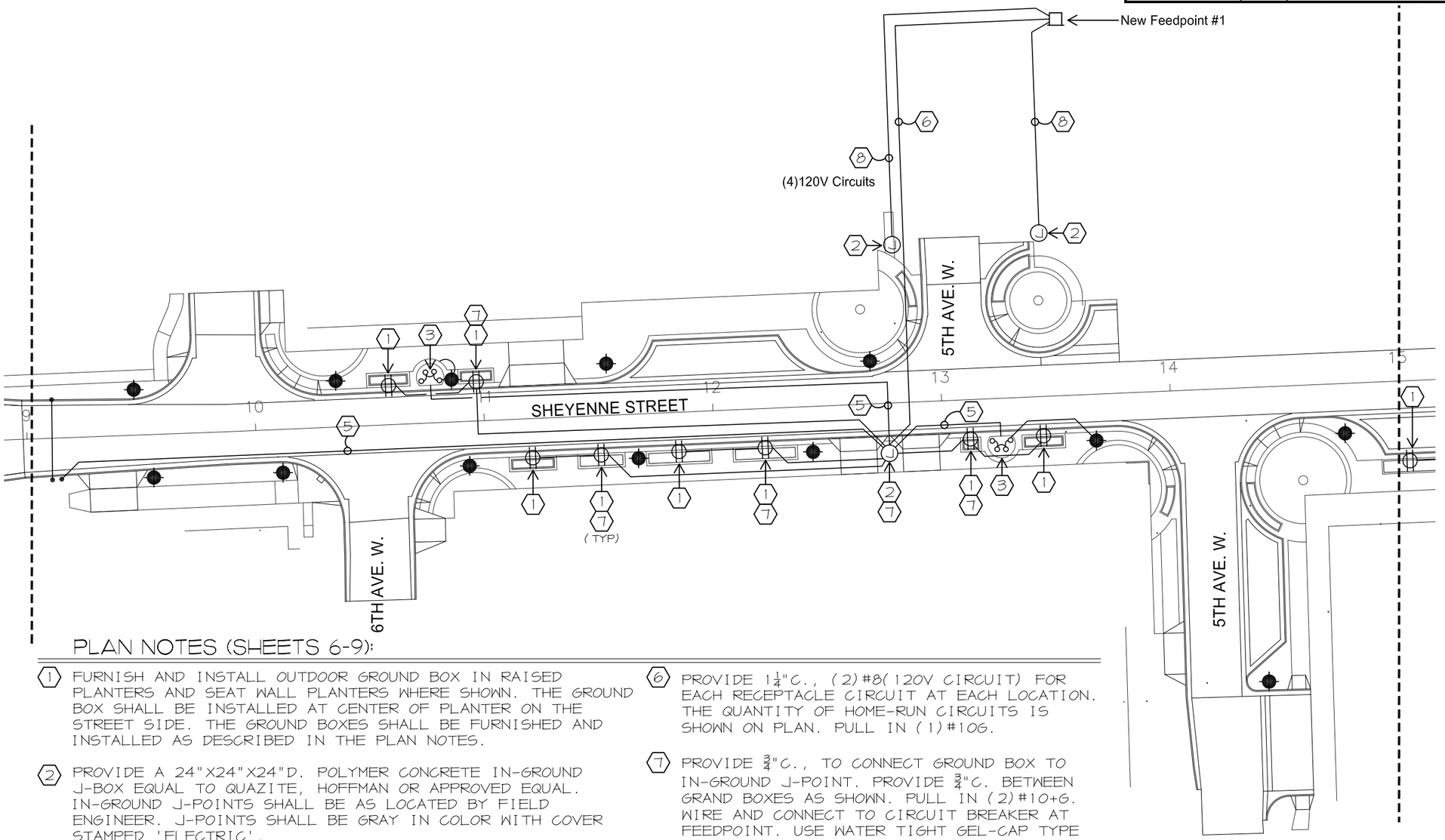
Sheyenne Street

Lighting / Communication

Sta 27+00 to Sta 32+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	6



PLAN NOTES (SHEETS 6-9):

1. FURNISH AND INSTALL OUTDOOR GROUND BOX IN RAISED PLANTERS AND SEAT WALL PLANTERS WHERE SHOWN. THE GROUND BOX SHALL BE INSTALLED AT CENTER OF PLANTER ON THE STREET SIDE. THE GROUND BOXES SHALL BE FURNISHED AND INSTALLED AS DESCRIBED IN THE PLAN NOTES.

2. PROVIDE A 24"X24"X24"D. POLYMER CONCRETE IN-GROUND J-BOX EQUAL TO QUAZITE, HOFFMAN OR APPROVED EQUAL. IN-GROUND J-POINTS SHALL BE AS LOCATED BY FIELD ENGINEER. J-POINTS SHALL BE GRAY IN COLOR WITH COVER STAMPED 'ELECTRIC'.

3. PROVIDE (4) IN-GROUND LED LIGHT FIXTURES AT "FOCUS AREA" LOCATIONS SHOWN. FIXTURES SHALL BE LOCATED AS SHOWN ON THE HARDSCAPE PLAN SHEET DETAILS. FURNISH AND INSTALL AS DESCRIBED IN THE PLAN NOTES.

4. FURNISH AND INSTALL A NEW POWER DISTRIBUTION FEED-POINT AS DESCRIBED IN THE PLAN NOTES.

5. PROVIDE 1"C. FROM EACH "FOCUS AREA" TO THE NEAREST POWER JUNCTION POINT AS SHOWN. ROUTE TO EDGE OF PAVER BLOCK INLAY. STUB-UP TO 5" BELOW GRADE AND CAP FOR FUTURE USE FOR POWER CONNECTIONS.

6. PROVIDE 1¼"C., (2)#8(120V CIRCUIT) FOR EACH RECEPTACLE CIRCUIT AT EACH LOCATION. THE QUANTITY OF HOME-RUN CIRCUITS IS SHOWN ON PLAN. PULL IN (1)#10G.

7. PROVIDE ¾"C., TO CONNECT GROUND BOX TO IN-GROUND J-POINT. PROVIDE ¾"C. BETWEEN GRAND BOXES AS SHOWN. PULL IN (2)#10+G. WIRE AND CONNECT TO CIRCUIT BREAKER AT FEEDPOINT. USE WATER TIGHT GEL-CAP TYPE CONNECTORS.

8. PROVIDE 2"C. FROM FEEDPOINT TO IN-GROUND JUNCTION POINTS OF THE 5TH AVE LOCATION. PROVIDE 2"C. FROM FEEDPOINT TO THE LIGHT POLE BASE AT THE 4TH AVE AND 2ND AVE LOCATION. THE 2"C. SHALL BE ROUGHED INTO POLE BASE ADJACENT TO BASE COVER.

Light bases shall be located as staked by Field Engineer.

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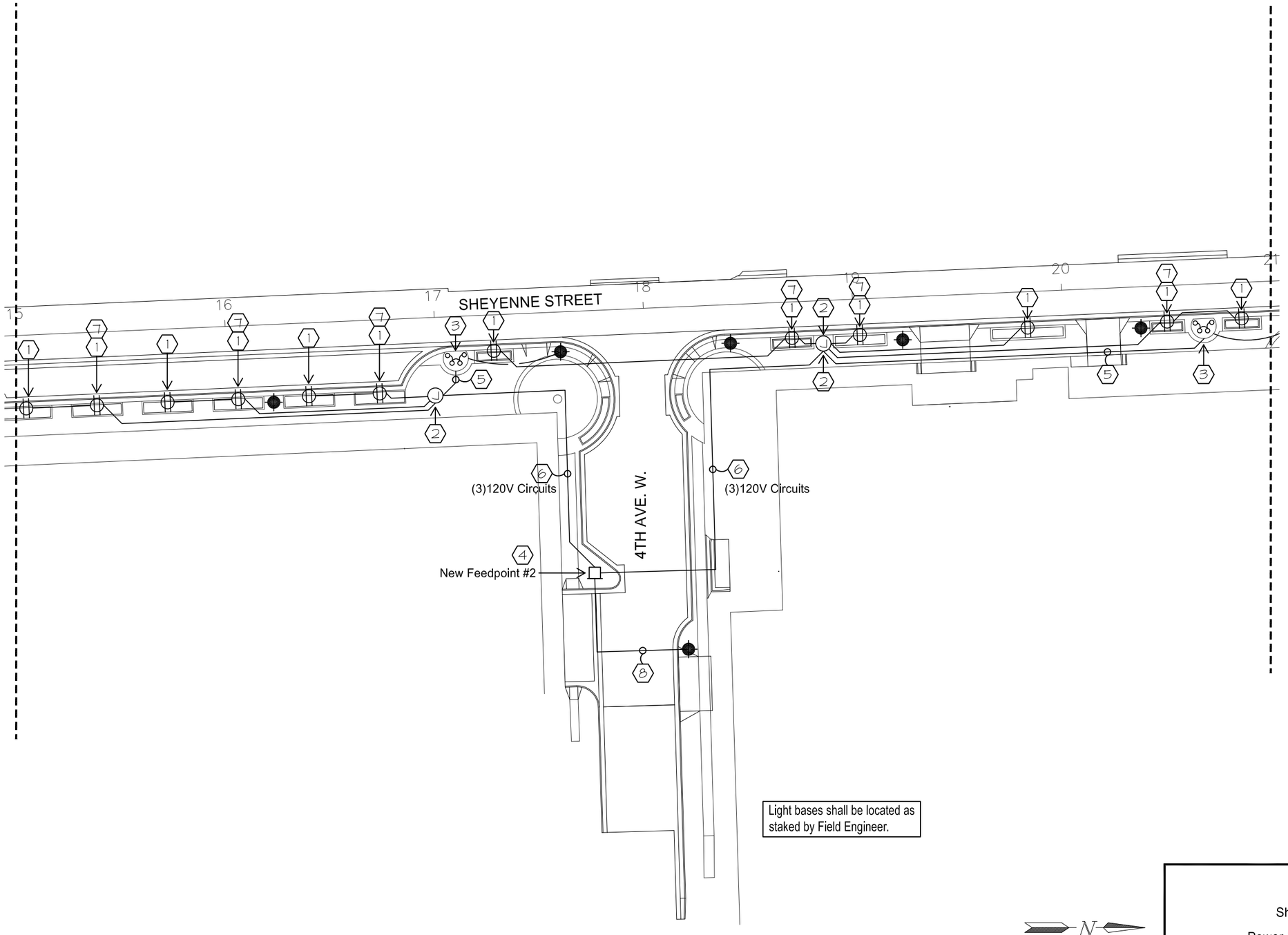
Sheyenne Street

Power / In-Ground Lighting

Sta 09+00 to Sta 15+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	7



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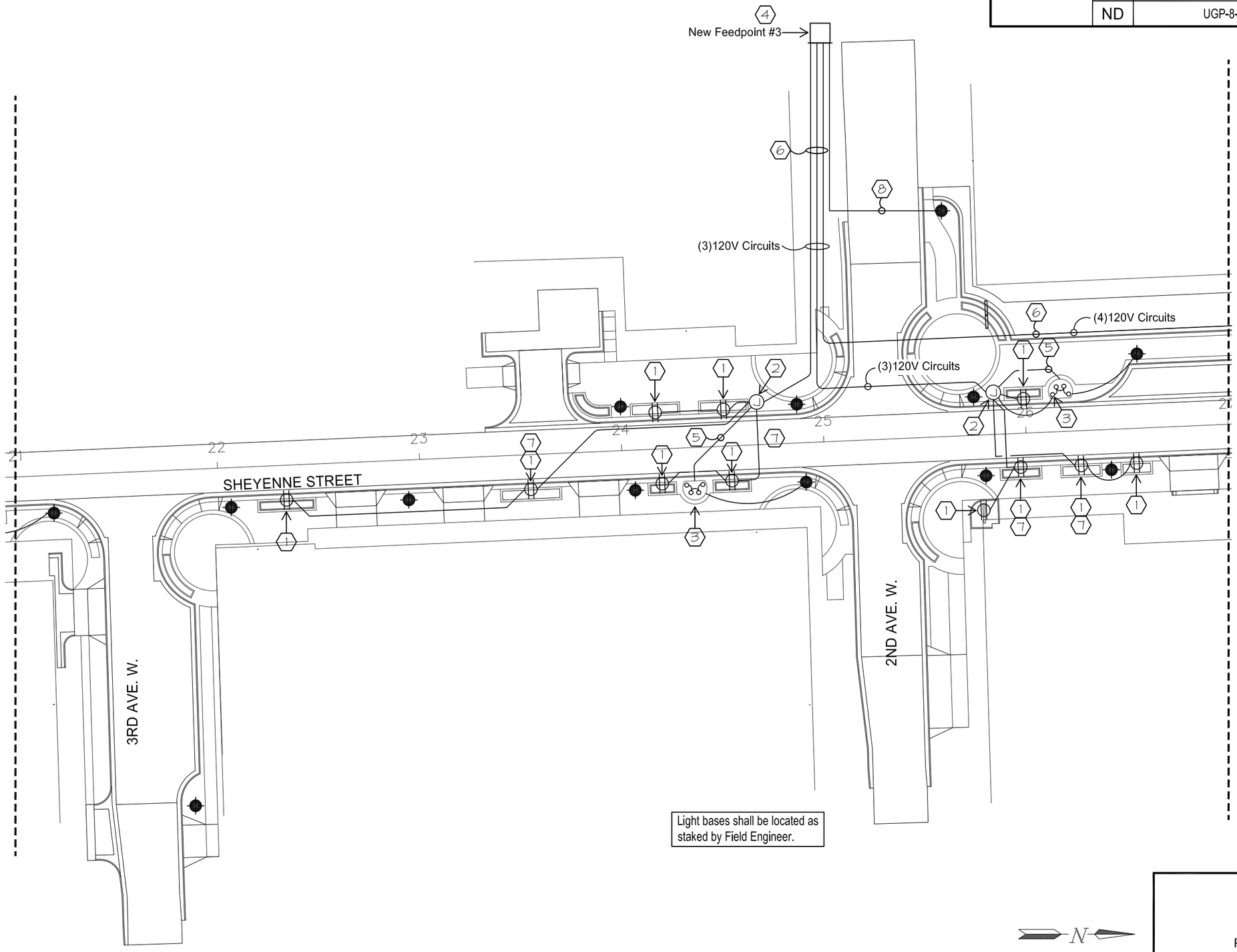
Sheyenne Street

Power / In-Ground Lighting

Sta 15+00 to Sta 21+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	8



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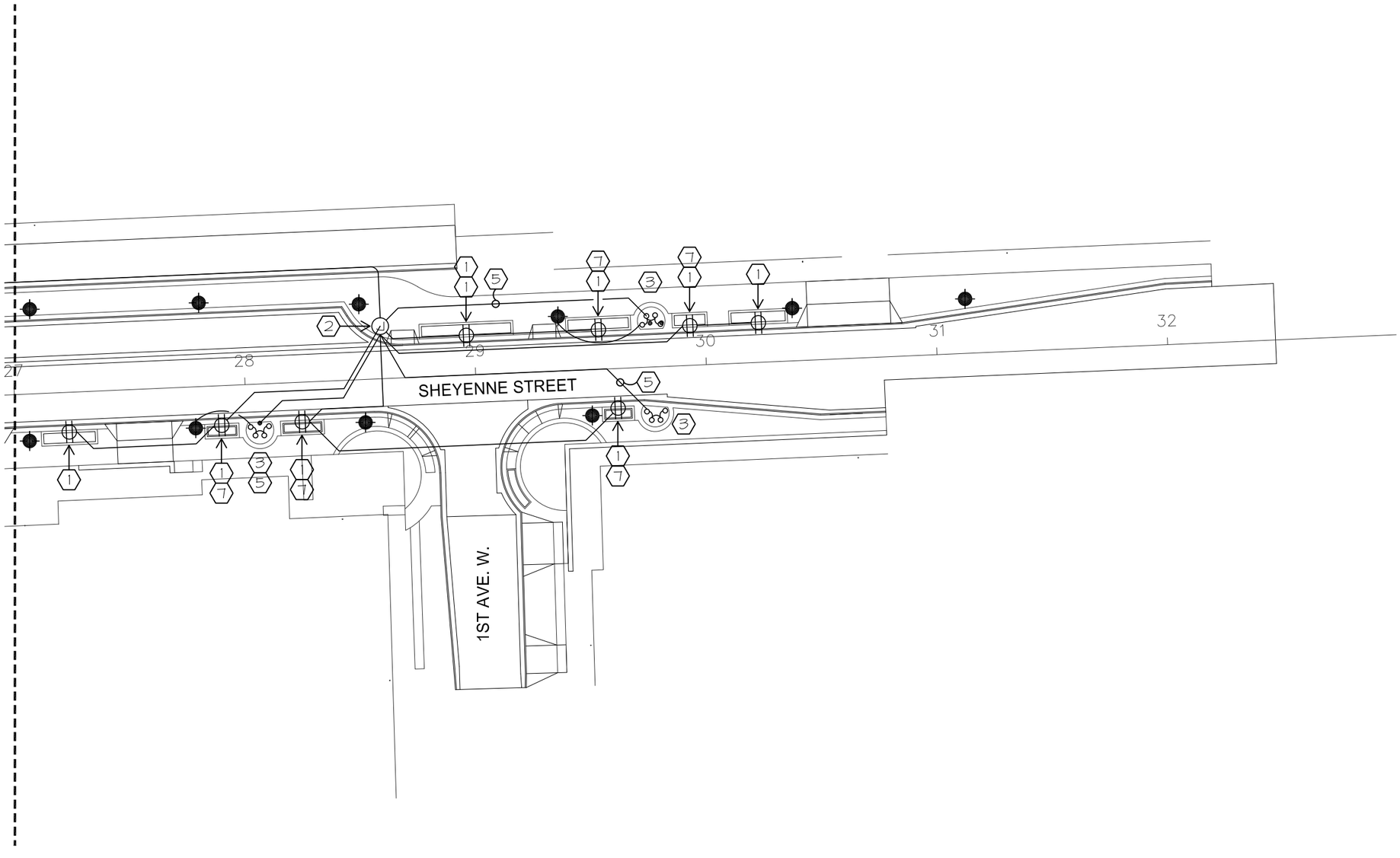
Sheyenne Street

Power / In-Ground Lighting

Sta 21+00 to Sta 27+00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	9



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Sheyenne Street

Power / In-Ground Lighting

Sta 27+00 to Sta 32+00

North Circuit #1					
Light Std Number	Station	Cable Trench Type 1		Cable Runs	
		LF	Dia.	LF	Type
EX LU#1	Sta 23+34 to Sta 24+00	66	2"	132 132 66	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#1 LU#2	Sta 24+00 to Sta 24+88	88	2"	176 176 88	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#2 LU#3	Sta 24+88 to Sta 25+75	87	2"	174 174 87	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#3 LU#4	Sta 25+75 to Sta 26+56	81	2"	162 162 81	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#3 LU#42	Sta 25+75 to Sta 25+62	91	2"	182 182 91	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#4 LU#5	Sta 26+56 to Sta 27+06	50	2"	100 100 50	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#5 LU#6	Sta 27+06 to Sta 27+80	74	2"	148 148 74	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#6 LU#7	Sta 27+80 to Sta 28+50	70	2"	140 140 70	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#7 LU#8	Sta 28+50 to Sta 29+34	84	2"	168 168 84	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#8 LU#9	Sta 29+34 to Sta 30+37	103	2"	206 206 103	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#9 LU#10	Sta 30+37 to Sta 31+13	76	2"	152 152 76	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
		870		1740 1740 91	

Lights Circuit
Receptacle Circuit
Ground

The existing multi-wire branch circuit in place at hand-hole shall be reused to feed North Circuit #1.

North Circuit #2					
Light Std Number	Station	Cable Trench Type 1		Cable Runs	
		LF	Dia.	LF	Type
J-point LU#11	Sta 13+50 to Sta 13+67	69	2"	138 69 69	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#11 LU#12	Sta 13+67 to Sta 14+78	111	2"	222 222 111	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#12 LU#13	Sta 14+78 to Sta 16+25	147	2"	294 294 147	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#12 LU#39	Sta 14+78 to Sta 14+37	112	2"	224 224 112	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#13 LU#14	Sta 16+25 to Sta 17+59	134	2"	268 268 134	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#14 LU#15	Sta 17+59 to Sta 18+40	81	2"	162 162 81	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#15 LU#16	Sta 18+40 to Sta 19+23	83	2"	166 166 83	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#15 LU#40	Sta 18+40 to Sta 18+13	150	2"	300 150 150	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#16 LU#17	Sta 19+23 to Sta 20+36	113	2"	226 113 113	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#17 LU#18	Sta 20+36 to Sta 21+18	84	2"	168 168 84	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#18 LU#19	Sta 21+18 to Sta 22+12	94	2"	188 188 94	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#19 LU#20	Sta 22+12 to Sta 22+91	79	2"	158 158 79	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#19 LU#41	Sta 22+12 to Sta 21+84	160	2"	320 320 160	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#20 LU#21	Sta 22+91 to Sta 24+06	115	2"	230 115 115	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#21 LU#22	Sta 24+06 to Sta 24+90	84	2"	168 84 84	(2) No.6 RHW (1) No.6 RHW (1) No.6 RHW
LU#22 LU#23	Sta 24+90 to Sta 25+79	89	2"	178 178 89	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#23 LU#24	Sta 25+79to Sta 26+40	61	2"	122 122 61	(2) No.6 RHW (2) No.6 RHW (2) No.6 RHW
LU#24 LU#25	Sta 26+40 to Sta 27+06	66	2"	132 132 66	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#25 LU#26	Sta 27+06 to Sta 27+78	72	2"	144 144 72	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#26 LU#27	Sta 27+78 to Sta 28+53	75	2"	150 150 75	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
LU#27 LU#28	Sta 28+53 to Sta 29+50	97	2"	194 194 97	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW
		2076		4152 4152 2076	

Lights Circuit
Receptacle Circuit
Ground

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	UGP-8-992(041)	140	10

Light Station locations shown are approximate. Pole bases shall be located as staked by Field Engineer.

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Sheyenne Street

Lighting Data Tables

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	11

South Circuit #3						
Light Std Number	Station	Cable Trench Type 1		Cable Runs		
		LF	Dia.	LF	Type	
Feedpoint LU#29	Sta 13+50 to Sta 12+68	221	2"	442 442 221	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	Light Circuit Receptacle Circuit Ground (Typical)
LU#29 LU#30	Sta 12+68 to Sta 11+54	114	2"	228 228 114	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#30 LU#31	Sta 11+54 to Sta 10+84	70	2"	140 140 70	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#31 LU#32	Sta 10+84 to Sta 10+34	50	2"	100 100 50	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#32 LU#33	Sta 10+34 to Sta 9+46	88	2"	176 176 88	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#33 Existing	Sta 9+46 to Sta 7+18	237	2"	474 474 237	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
		780		1560 1560 780		

South Circuit #4						
Light Std Number	Station	Cable Trench Type 1		Cable Runs		
		LF	Dia.	LF	Type	
Feedpoint LU#34	Sta 13+50 to Sta 12+43	287	2"	574 574 287	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	Light Circuit Receptacle Circuit Ground (Typical)
LU#34 LU#35	Sta 12+43 to Sta 11+66	77	2"	154 154 77	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#35 LU#36	Sta 11+66 to Sta 10+93	73	2"	146 146 73	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#36 LU#37	Sta 10+93 to Sta 10+12	81	2"	162 162 81	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
LU#37 LU#38	Sta 10+12 to Sta 9+55	57	2"	114 114 57	(2) No.6 RHW (2) No.4 RHW (1) No.6 RHW	
		575		1144 1144 572		

Light Station locations shown are approximate. Pole bases shall be located as staked by Field Engineer.

SPEC	CODE	BID ITEM	QTY	UNIT
770	0003	LIGHTING SYSTEM A	1	EA
770	9271	CUSTOM ELECTRICAL PANELS	1	EA
770	9273	SERVICE OUTLETS	1	EA
770	9404	LIGHTING SYSTEM (LANDSCAPE)	1	EA
772	9200	IT SYSTEM	1	EA

LIGHTING SYSTEM QUANTITIES	
CONCRETE FOUNDATION - LIGHTING	42 EA
2 IN. DIAMETER PVC CONDUIT (LIGHTING)	4301 LF
UNDERGROUND CONDUCTOR No 4 - Type THW	2710 LF
UNDERGROUND CONDUCTOR No 6 - Type THW	18016 LF
FEED POINT - PAD MOUNTED	1 EA
LT STD 18 MT HT	42 EA
LED LUMINAIRE	42 EA
REMOVE LIGHT STANDARD	10 EA
REMOVE CONCRETE FOUNDATION	10 EA
LIGHTING SYSTEM A	1 EA
Lighting System Items shown are for informational purposes, contractor shall provide all labor and equipment required for each lighting system to be fully operational as shown in the plans. Items shall be included in the corresponding price bid "LIGHTING SYSTEM A".	

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Sheyenne Street

Lighting Data Tables

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	12

Light Standards				
No.	Station	Circuit	IES-Type	Mtg. Ht.
1	Sta 24+00	1	III	18'
2	Sta 24+88	1	III	18'
3	Sta 25+75	1	III	18'
4	Sta 26+56	1	III	18'
5	Sta 27+06	1	III	18'
6	Sta 27+80	1	III	18'
7	Sta 28+50	1	III	18'
8	Sta 29+34	1	III	18'
9	Sta 30+37	1	III	18'
10	Sta 31+13	1	III	18'
11	Sta 13+67	2	III	18'
12	Sta 14+78	2	III	18'
13	Sta 16+25	2	III	18'
14	Sta 17+59	2	III	18'
15	Sta 18+40	2	III	18'
16	Sta 19+23	2	III	18'
17	Sta 20+36	2	III	18'
18	Sta 21+18	2	III	18'
19	Sta 22+12	2	III	18'
20	Sta 22+91	2	III	18'
21	Sta 24+06	2	III	18'
22	Sta 24+90	2	III	18'
23	Sta 25+79	2	III	18'
24	Sta 26+40	2	III	18'
25	Sta 27+06	2	III	18'
26	Sta 27+78	2	III	18'
27	Sta 28+53	2	III	18'
28	Sta 29+50	2	III	18'
29	Sta 12+68	3	III	18'
30	Sta 11+54	3	III	18'

Light Standards				
No.	Station	Circuit	IES-Type	Mtg. Ht.
31	Sta 10+84	3	III	18'
32	Sta 10+34	3	III	18'
33	Sta 9+46	3	III	18'
34	Sta 12+43	4	III	18'
35	Sta 11+66	4	III	18'
36	Sta 10+93	4	III	18'
37	Sta 10+12	4	III	18'
38	Sta 9+55	4	III	18'
39	Sta 14+37	2	III	18'
40	Sta 18+13	2	III	18'
41	Sta 21+84	2	III	18'
42	Sta 25+63	1	III	18'

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Lighting Data Tables

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	13

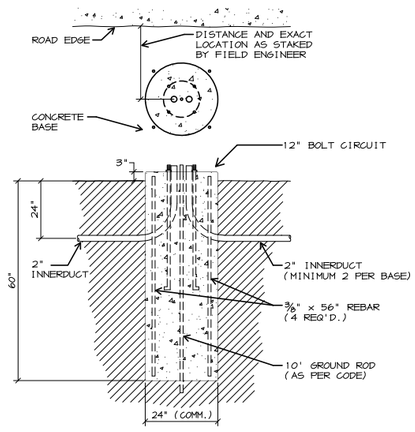
LUMENAIRE SPECIFICATIONS:

APPROVED EQUAL TO SUN VALLEY OV1-LED TO MATCH EXISTING ALREADY IN PLACE

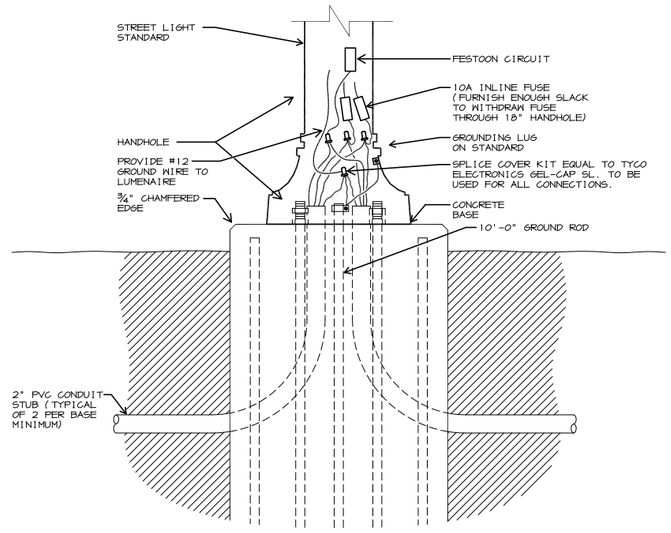
- OV1-LED-GRB-111-64LED-GN-350mA-MT-1-RAL90005-T(BLK)-CSP-HS
- SOLID STATE DECORATIVE LED AREA LIGHT, 71 WATT, TYPE-3 DISTRIBUTION, 5000K, 7000 LUMENS, BLACK FINISH, CLEAR SMOOTH POLYCARBONATE LENS, HOUSE SIDE SHIELD.

POST SPECIFICATIONS:

- 18 FOOT POLE SHAFT, BLACK FINISH-1050-18-PT27
- BLACK FINISHED BASE W/ COVER - 4300
- GFI WITH IN USE WEATHERPROOF COVER - IU/WP - LOCATE AT 15' ABOVE GRADE
- BLACK FINISH DOUBLE BAR DECORATIVE ARM-XBB-1
- FIXED FLAG HOLDER - FFH
- TO MATCH EXISTING POLES ALREADY IN PLACE
- 12" BOLT CIRCUIT

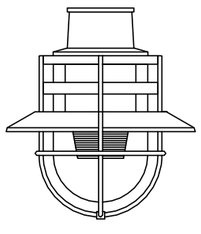


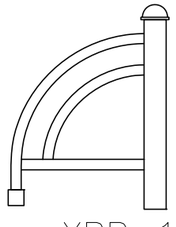
1/9 CONCRETE BASE DETAIL



2/9 BASE DETAIL

OV1

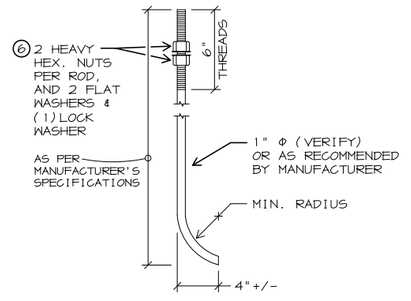




XBB-1

LIGHT BASE NOTES:

1. CONCRETE SHALL BE CLASS AE PORTLAND CEMENT. (4000 LB)
2. CENTER OF CONCRETE BASE SHALL BE AS STAKED BY FIELD ENGINEER. CONCRETE BASE SHALL BE 3" ABOVE TOP GRADE (VERIFY WITH ENGINEER).
3. FOUNDATIONS MAY BE CONSTRUCTED IN AUGURED HOLES UNLESS THE NATURAL SOILS WILL NOT STAND OPEN. IN WHICH CASE FORMING WILL BE REQUIRED.
4. LOCATE HANDHOLE 180 DEG. FROM STREET SIDE, AT STREET-SIDE LOCATIONS.
5. THE GROUND ROD SHALL BE PLACED INSIDE THE BASE WITH THE TOP EXTENDING 3" ABOVE THE TOP OF CONCRETE.
6. ANCHOR BOLTS AS RECOMMENDED BY MFG & PER SPECIFICATIONS. GALVANIZE TOP 1'-0" OF ANCHOR ROD & NUTS.
7. PVC CONDUIT AS PER SPEC. SHALL BE PROTECTED 3"+/- ABOVE THE FOUNDATION BEFORE THE CONCRETE IS PLACED & SHALL BE THE SIZE & NUMBER SHOWN IN THE PLAN OR AS SPECIFIED.
8. A TEMPLATE SHALL BE PROVIDED FOR ANCHOR ROD PLACEMENT & SHALL BE LEFT IN PLACE UNTIL CONCRETE HAS SET.
9. VERIFY EXACT BASE REQUIREMENTS WITH POLE MANUFACTURER.



6 ANCHOR ROD DETAIL (FOUR REQUIRED)

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Sheyenne Street

Light Base Detail