

# CITY OF FALLON

# SHERMAN STREET AND NORTH BROADWAY

# STREET REHABILITATION

SEPTEMBER 2022  
 PWP-CH-2022-408  
 CDBG GRANT #19/PF/04

**OWNER:**

**CITY OF FALLON**  
**55 W WILLIAMS AVENUE**  
**FALLON, NV 89406**  
**PH.: (775) 423-3040**

**MAYOR:**

**KEN TEDFORD**

**COUNCILWOMAN - WARD 1**

**KELLY FROST**

**COUNCILWOMAN - WARD 2**

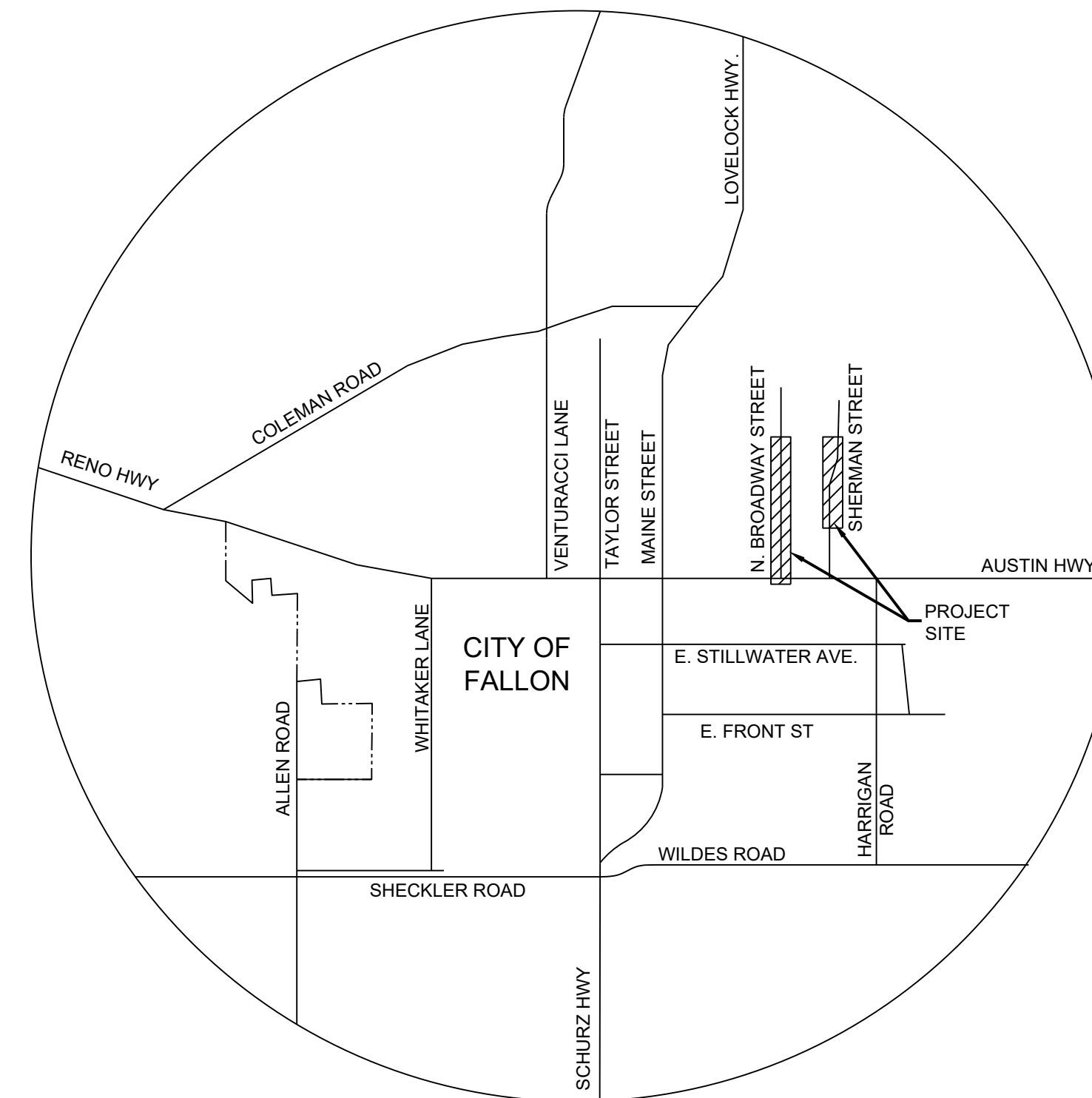
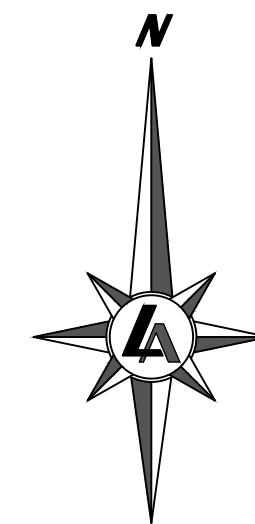
**KARLA KENT**

**COUNCILMAN - WARD 3**

**JAMES RICHARDSON**



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**VICINITY MAP**

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CITY OF FALLON  
 SHERMAN STREET & NORTH BROADWAY  
 STREET REHABILITATION  
 TITLE SHEET  
 CHURCHILL COUNTY  
 NEVADA  
 CITY OF FALLON

REV.	DATE	DESCRIPTION	BY

**CONFORMED SET**  
 ISSUED FOR CONSTRUCTION  
 SEPTEMBER 9, 2022

BAR IS 1 INCH ON ORIGINAL DRAWING  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**C1.0**

DRAWN BY: RHH  
 DESIGNED BY: RHH  
 CHECKED BY: AJG  
 JOB NO.: 10514.000

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NOTES:

GENERAL

- 1. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
2. THE CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY THE PERMITTING ENTITY, FOR ALL DETAILING NOT SHOWN ON THESE PLANS.
3. CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND CURRENT NDOT STANDARD PLANS/SPECIFICATIONS (STANDARD SPECIFICATIONS) AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES, ALL UTILITY COMPANIES, OWNER'S REPRESENTATIVES, AND THE PROJECT ENGINEER PRIOR TO COMMENCING WORK. THIS MEETING SHALL BE HELD AT LEAST FORTY-EIGHT (48) HOURS, OR TWO (2) BUSINESS DAYS, PRIOR TO THE START OF CONSTRUCTION AND SHALL COMMUNICATE SCHEDULES, CONTRACTORS MEAN AND METHODS, MATERIALS TO BE USED, AND OTHER RELEVANT MATTERS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.
5. ALL WORK EITHER DIRECTLY OR INDIRECTLY RELATED TO THE PROJECT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY SYSTEM MANAGER.
6. THE CONTRACTOR SHALL MAINTAIN AN ONSITE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, FIELD CHANGES, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS. RECORDS SHALL BE IN GOOD ORDER AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO ORDERING OR INSTALLATION. A SIGNED SET OF REVIEWED SUBMITTALS MUST ALWAYS BE AVAILABLE ONSITE DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-642-2444 TO PROVIDE FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
9. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROCURE ALL NECESSARY PERMITS, LICENSES, INSURANCE POLICIES, ETC. AS MAY BE NECESSARY TO COMPLY WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK; UNLESS OTHERWISE OBTAINED BY THE OWNER.
11. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY. ALL TRAFFIC CONTROL OPERATIONS SHALL COMPLY WITH THE LATEST MUTCD. AT NO TIME WILL OBSTRUCTIONS BE LEFT IN THE ROADWAY DURING NIGHT HOURS. ALL TRAFFIC CONTROL PLANS SHALL BE PREPARED BY AT TSA CERTIFIED PERSONNEL.
12. THE CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTROL AND THE STANDARD SPECIFICATIONS.
13. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618.
14. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
15. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
16. TEMPORARY CONSTRUCTION FENCING SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT IN AREAS AS DELINEATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE TEMPORARY FENCING SHALL PREVENT CHILDREN AND PETS FROM ENTERING THE CONSTRUCTION AREA, CREATE A VISUAL BARRIER OF THE CONSTRUCTION ACTIVITIES FROM THE ADJACENT RESIDENCE AND YARDS, AND PROTECT VEGETATION FROM CONSTRUCTION EQUIPMENT.
17. THE CONTRACTOR SHALL USE ONLY AUTHORIZED SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AND OBTAIN PROPER APPROVALS FROM THE LAND OWNER AND LOCAL GOVERNING AUTHORITY TO DO SO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. IN THE EVENT A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE THE MONUMENT REPLACED, AT HIS OWN EXPENSE, BY A LICENSED SURVEYOR IN THE STATE OF THE PROJECT SITE.
19. CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 7:00 AM AND 5:00 PM UNLESS OTHERWISE DICTATED BY LOCAL ORDINANCE. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER TO MODIFY WORK HOURS.
20. ALL FIELD CHANGES MUST BE PRE-APPROVED BY THE PROJECT ENGINEER.
21. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
22. ALL SALVAGED MATERIALS ARE THE PROPERTY OF THE OWNER AND SHALL BE PALLETIZED ONSITE UNLESS OTHERWISE ARRANGED WITH THE OWNER AND/OR PROJECT ENGINEER.
23. THE OWNER IS RESPONSIBLE FOR FURNISHING QUALIFIED SITE INSPECTIONS AS REQUIRED TO COMPLY WITH LOCAL ORDINANCES.
24. A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THIS PROJECT. ALL RECOMMENDATIONS INCLUDED IN THE REPORT ARE HEREBY MADE A PART OF THE CONSTRUCTION DOCUMENTS UNLESS MODIFIED WITHIN THESE PLANS. INSPECTION AND TESTING DURING CONSTRUCTION SHALL BE REQUIRED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN THE REPORT.
TITLE: GEOTECHNICAL INVESTIGATION REPORT FOR NORTH BROADWAY STREET AND SHERMAN STREET REHABILITATION
DATE: OCTOBER 2021
25. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
26. NO OTHER UTILITIES MAY BE PLACED IN A WATER OR SEWER TRENCH.
27. ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEAN OUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES.
28. CONTRACTOR SHALL SUPPORT TRENCH SIDEWALLS IN ACCORDANCE WITH ALL

- APPLICABLE LAWS AND GOVERNING SAFETY REGULATIONS. SHEETING OR SHORING SHALL CONFORM TO LOCAL REGULATIONS AND OSHA STANDARDS.
29. ENDS OF UNFINISHED PIPE SHALL BE SEALED AT THE END OF EACH DAY.
30. PIPE SHALL BE LAID IN THE UPHILL DIRECTION, WITH BELL ENDS UPHILL.
31. THE CONTRACTOR SHALL COORDINATE ALL WATER MAIN SHUT DOWNS AND TIE-INS WITH THE WATER UTILITY A MINIMUM OF FORTY-EIGHT (48) HOURS OR TWO (2) BUSINESS DAYS IN ADVANCE.
32. ALL UNDERGROUND VALVES, TEES, FITTINGS, ETC. LARGER THAN 2" SHALL BE COATED TO PROTECT AGAINST CORROSION.
33. ALL WATER PROJECT MATERIAL (PIPES, VALVES, LATERALS AND APPURTENANCES) SHALL BE LEAD FREE AND MEET THE MINIMUM REQUIREMENTS OF THE NEVADA ADMINISTRATIVE CODE AND NSF/ANSI 61.
34. ALL THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACK-FILL.
35. ALL BOLTS AT THRUST BLOCKS AND VALVE SADDLES SHALL BE COVERED WITH VISQUEEN AND TAPED PRIOR TO CONCRETE PLACEMENT.
36. THE WATER MAINS SHALL NOT BE PLACED INTO SERVICE UNTIL:
a. THE WATER MAIN HAS BEEN DISINFECTED IN ACCORDANCE WITH AWWA, NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION (NDEP), THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS STANDARDS.
b. THE DISPOSAL OF ANY SPENT CHLORINE SOLUTIONS MUST BE COORDINATED WITH NDEP'S BUREAU OF WATER POLLUTION CONTROL.
c. ANALYSIS OF THE WATER MAIN WHICH INDICATE THAT THE WATER MEETS PRIMARY DRINKING WATER STANDARDS FOR COLIFORM BACTERIA (ABSENT FOR COLIFORM BACTERIA) HAVE BEEN OBTAINED AND REPORTED TO NDEP'S BUREAU OF SAFE DRINKING WATER. SAMPLING SHALL BE IN ACCORDANCE WITH NDEP REGULATIONS.
37. PVC PIPE SHALL BE TESTED PER AWWA C605 AND DUCTILE IRON PIPE SHALL BE TESTED FOR AWWA C600. OTHER MATERIALS SHALL BE TESTED PER REQUIREMENTS IN THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION SECTION 336.
38. CONTRACTOR SHALL CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
39. CONTRACTOR SHALL PERFORM PLASTIC PIPE BALL AND MANDREL TEST ON NEWLY INSTALLED SEWER PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
40. CONTRACTOR SHALL PERFORM AIR PRESSURE TESTING ON NEWLY INSTALLED SEWER PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS.

GRADING, EXCAVATION & SURFACE IMPROVEMENTS

- 41. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY TAKE-OFF AND SHALL BUDGET THE PROJECT ACCORDINGLY. ALL EXCESS GRADING MATERIALS SHALL BE DISPOSED OF OFFSITE.
42. ALL EARTHWORK ACTIVITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT.
43. THE SOLE ENGINEER SHALL APPROVE ALL EARTHWORK AND GRADING TO CONFIRM COMPACTION REQUIREMENTS ARE MET.
44. CONTRACTOR SHALL PROTECT EXISTING PAVING, CONCRETE, LANDSCAPING, FENCING, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS NOT SPECIFICALLY CALLED OUT FOR REPLACEMENT. CONTRACTOR SHALL REPAIR/REPLACE ANYTHING DAMAGED BY FORCES UNDER THEIR EMPLOY OR CONTRACT.
45. ALL ASPHALT CONCRETE SURFACES SHALL BE SAWCUT THREE FEET MINIMUM INSIDE THE EDGE OF PAVEMENT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED PAVEMENT TIE-IN EDGES SHALL BE METICULOUSLY CLEANED OF ALL LOOSE MATERIAL AND THEN TREATED WITH BITUMINOUS EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIALS SHALL BE GRADED AND RECOMPACTED PRIOR TO PAVING.

ENVIRONMENTAL

- 46. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND MAINTAINING A SWPPP.
47. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION AND SILTATION FROM ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES, AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
48. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM INCLUDING WATERING OF OPEN AREAS, TO CONFORM WITH THE LATEST FEDERAL, STATE, AND COUNTY AIR POLLUTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UPDATING DUST CONTROL PERMITS FOR THE PROJECT.
49. ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION OF AN APPROVED DUST PALLIATIVE OR HYDROMULCH.
50. THE CONTRACTOR SHALL IDENTIFY A STANDBY CREW FOR EMERGENCY WORK AND THEY SHALL BE AVAILABLE AT ALL TIMES. MATERIAL NECESSARY TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION CONTROL MEASURES SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS.
51. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
52. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES. GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED.
53. FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE END OF EACH WORKING DAY.
54. ALL DISTURBED AREAS ARE REQUIRED TO HAVE A PALLIATIVE APPLIED FOR DUST CONTROL. ALL GRADING SHALL COMPLY WITH STATE AND COUNTY REGULATIONS.
55. A SIX-FOOT HIGH PERIMETER FENCE OR A 24-HOUR GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN A FACILITY EXCEEDS 18".
56. ALL AREAS DISTURBED BECAUSE OF THE WORK SHALL BE REVEGETATED IN ACCORDANCE WITH INDUSTRY BEST MANAGEMENT PRACTICES.
57. NO CONSTRUCTION MATERIALS SHALL BE STORED IN A STREAM ENVIRONMENT ZONES (SEZ) AT ANY TIME.
58. IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, PREPARE A DEWATERING PLAN, AND OBTAIN APPROVAL FROM THE PROJECT ENGINEER BEFORE PROCEEDING WITH WORK. DEWATERING ACTIVITIES MAY REQUIRE THE CONTRACTOR TO OBTAIN A DISCHARGE/PUMPING PERMIT FROM THE STATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH PERMITS.
59. ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.

UNDERGROUND UTILITIES

- 25. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
26. NO OTHER UTILITIES MAY BE PLACED IN A WATER OR SEWER TRENCH.
27. ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEAN OUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES.
28. CONTRACTOR SHALL SUPPORT TRENCH SIDEWALLS IN ACCORDANCE WITH ALL

ABBREVIATIONS

Table listing abbreviations and their corresponding full names, such as AC ASPHALT CONCRETE, ACP ASBESTOS CEMENT PIPE, AGG AGGREGATE, BC BEGIN CURVE (HORIZONTAL), BOW BOTTOM OF WALL, BF, BOF BOTTOM OF FOOTING, BV BUTTERFLY VALVE, BVC BEGIN VERTICAL CURVE, BW BACK OF WALK, CB CATCH BASIN, cfs CUBIC FEET PER SECOND, CFM CUBIC FEET PER MINUTE, C&G CURB AND GUTTER, CL CENTER LINE, CLASS / CENTER LINE CORRUGATED METAL PIPE, CMP COMPACTION, CONC CONCRETE, CONTR CONTRACTOR, CP WATER POLLUTION CONTROL, CTV DIAMETER, DWY DRIVEWAY, EA EAST, EA EACH, EC END CURVE (HORIZONTAL), ELL ELBOW, ELEC ELECTRICAL, ELEV ELEVATION, EVC END VERTICAL CURVE, EX (E) EXISTING, EXT EXTERIOR, FCA FLANGE COUPLING ADAPTER, FE FINISH ELEVATION, FES FLARED END SECTION, FF FINISH FLOOR, FFC FRONT FACE OF CURB, FG FINISH GRADE, FH FIRE HYDRANT, FL FLOW LINE, FLG FLANGE, fps FEET PER SECOND, FTG FOOTING, G GAS, GALV GALVANIZED, GB GRADE BREAK, GDW GRAVEL DRIVEWAY, GD GROUND, GV GATE VALVE, H HANDICAPPED, HGL HYDRAULIC GRADE LINE, HORIZ HORIZONTAL, HP HIGH POINT, ID INSIDE DIAMETER, IE INVERT ELEVATION, INT INTERSECTION, IRR IRRIGATION, LAT LATERAL, LF LINEAR FEET, LP LOW POINT, LT LEFT, MAX MAXIMUM, MDD MAXIMUM DRY DENSITY, MH MANHOLE, MIN MINIMUM, MJ MECHANICAL JOINT, MMD MAXIMUM MARSHALL DENSITY, MUTCD MANUAL FOR TRAFFIC CONTROL DEVICES, NAP NOT A PART, NIP NOT IN PROJECT, NTS NOT TO SCALE, OC ON CENTER, OD OUTSIDE DIAMETER, OH OVERHEAD, (P) PROPOSED, PCC PORTLAND CEMENT CONCRETE, PAD GRADE, PI POINT OF INTERSECTION, PIVC POINT OF INTERSECTION VERTICAL CURVE, PL PROPERTY LINE, POCCC POINT OF COMPOUND CURVATURE, POT POINT OF TANGENCY, PP POWER POLE, PRC POINT OF REVERSE CURVE, PRVC POINT OF REVERSE VERTICAL CURVE, PVC POLYVINYL CHLORIDE PAVEMENT, PVMT PAVEMENT, Q 5 5 YEAR PEAK FLOW, Q 100 100 YEAR PEAK FLOW, R RADIUS, RCP REINFORCED CONCRETE PIPE, REF REFERENCE, RET CURB RETURN, RP RADIUS POINT, RT RIGHT, R/W, ROW RIGHT-OF-WAY, S SLOPE, SOUTH, SD STORM DRAIN, SDMH STORM DRAIN MANHOLE, SL STREET LIGHT, SS SANITARY SEWER, SSSO SANITARY SEWER CLEAN OUT, SSMH SANITARY SEWER MANHOLE, SSSPEC STANDARD SPEC. FOR PUBLIC WORKS CONSTRUCTION, STA STATION, SW SIDEWALK, TELE TELEPHONE, TBO TEMPORARY BLOW OFF VALVE, TC TOP OF CURB, TOP OF CONC TO GRADE, TG TOP OF BERM, TF, TOF TOP OF FOOTING, TOW TOP OF WALL, TS TRAFFIC SIGNAL, TSCB TRAFFIC CONTROL SIGNAL BOX, TR TOP OF RAIL, TRANS TRANSITION, TYP TYPICAL, UG/P UNDER GROUND POWER, UNO UNLESS NOTED OTHERWISE, V5 VELOCITY AT 5 YEAR PEAK, VEC VERTICAL CURVE, VEL VELOCITY, VERT VERTICAL, VG VALLEY GUTTER, W WEST, W/W WATER AND GAS, WL WATER LINE, WM WATER METER, WS WATER SURFACE, WV WATER VALVE, WWF WELDED WIRE FABRIC, YR YEAR.

VERTICAL CROSSING CONFLICTS:

- REFERENCE "GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION", EDITION 1.0 UPDATED JUNE 2018.
REFERENCE NAC 445A.67165 SEPARATION OF LINES: SEWER MAIN CROSSING WATER MAIN.



Know what's below. Call before you dig.

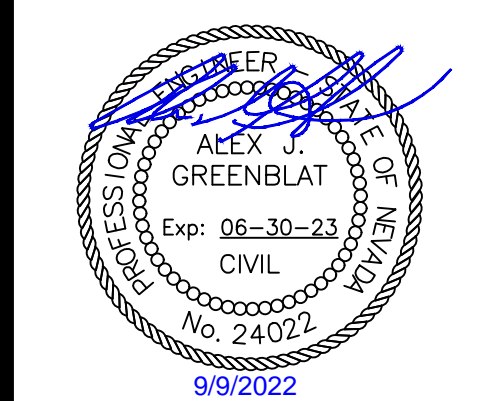
LEGEND

Legend table with columns for EXISTING and PROPOSED symbols, and a central column for descriptions. Includes symbols for contour lines, ground elevations, trees, rocks, pavement edges, AC paving to be removed, curbs and gutters, concrete, utility poles, lights, guy wires, electric transformers, electric vaults, electric panels, electric cabinets, electric boxes, electric meters, electric generators, electric manholes, air conditioners, electric outlets, bollards, storm drain manholes/drop inlets, catch basins, water valves, irrigation control valve water, meters, water spigots/hose bib water, manholes, water vaults, fire hydrants, gas valves, gas meters, telephone manholes, telephone boxes, telephone vaults, sewer manholes, sewer cleanouts, survey monuments, control points, barricades, signs, retaining walls, fences, grade breaks, flow lines, comm lines, gas lines, electric lines, sewer lines, water lines, air lines, and storm drains.



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SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION PROJECT NOTES, ABBREVIATIONS, & LEGEND CITY OF FALLON CHURCHILL COUNTY NEVADA

Table with columns for REV, DATE, DESCRIPTION, and BY. Includes a large 'CONFIRMED SET ISSUED FOR CONSTRUCTION SEPTEMBER 9, 2022' stamp.

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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION**  
**OVERALL SITE, CONTROL & SHEET INDEX**  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

REV.	DATE	DESCRIPTION	BY

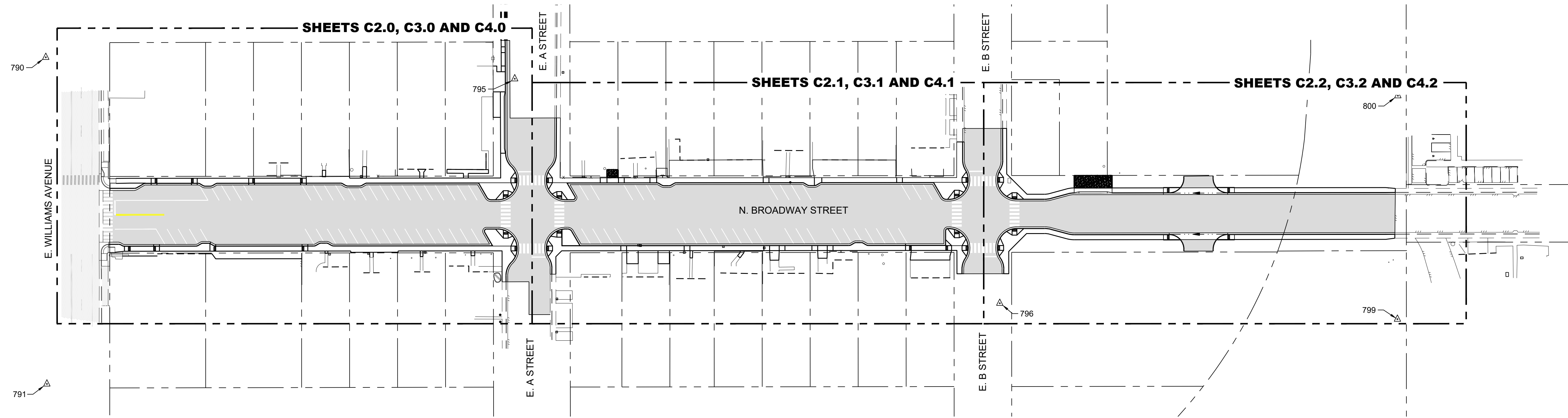
**CONFIRMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

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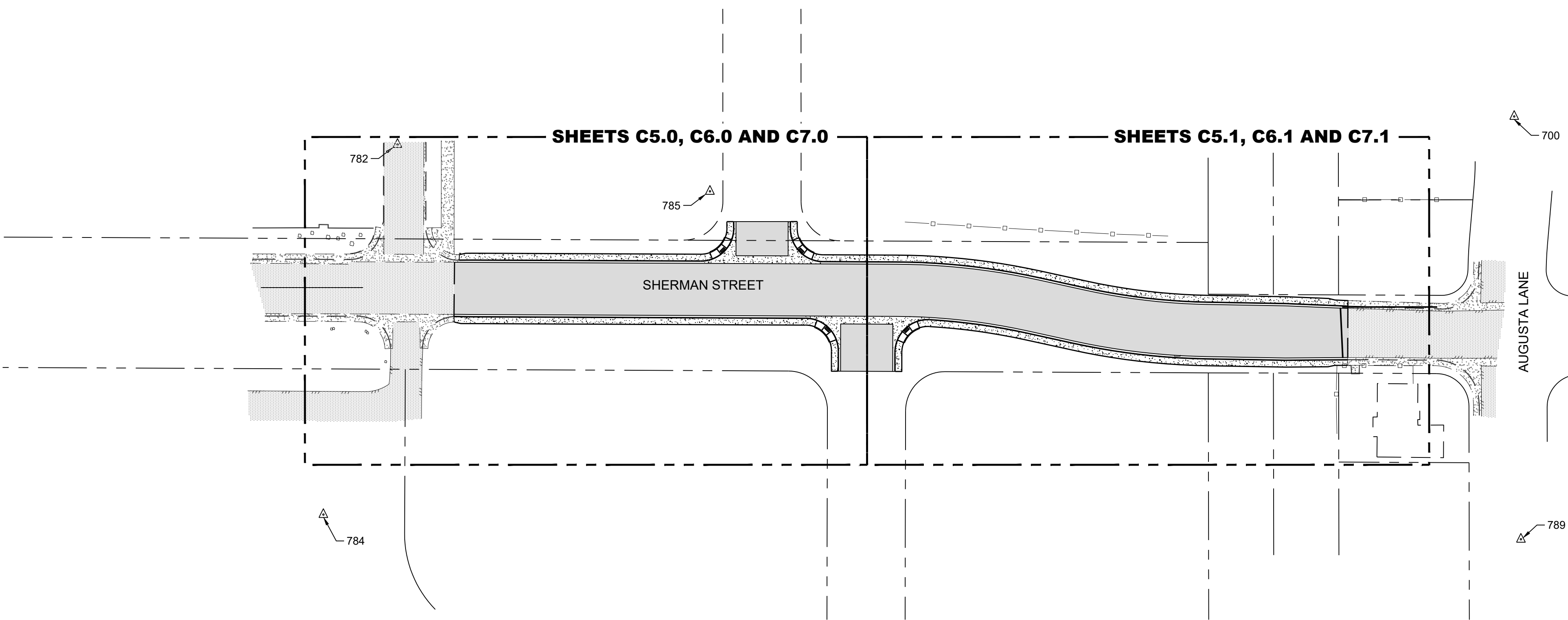
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**C1.2**

DRAWN BY: RHH  
DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000



NORTH BROADWAY STREET



NORTH SHERMAN STREET

**PROJECT CONTROL**

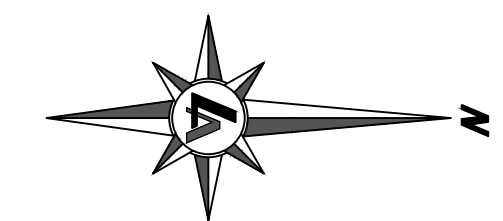
POINT	NORTH	EAST	ELEVATION	DESCRIPTION
700	14845110.890	2572478.823	3960.06	CP CL MON GCP 7
782	14844253.850	2572500.340	3958.74	CP MAG SHNR GCP 10
784	14844196.970	2572784.217	3958.40	CP MAG SHNR GCP 11
785	14844493.640	2572536.280	3959.93	CP RC GCP 9
789	14845116.040	2572803.146	3958.86	CP GCP 8
790	14843555.590	2570666.085	3963.60	CP GCP 5
791	14843556.750	2571006.692	3962.11	CP GCP 6
795	14844044.290	2570688.440	3961.05	CP MAG SHNR GCP 4
796	14844549.710	2570922.557	3959.81	CP RC GCP 3
799	14844964.130	2570939.159	3961.70	CP RC GCP 2
800	14844964.600	2570706.102	3961.44	CP RC GCP 1

**BASIS OF BEARINGS**

THE BASIS OF BEARINGS FOR THIS PROJECT IS NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD83(94) BASED UPON REAL TIME KINEMATIC GPS OBSERVATIONS, OBSERVED OCTOBER 13, 2021 USING A SURVEY GRADE DUAL FREQUENCY GPS RECEIVER WITH TRIMBLE VRS CORRECTIONS FROM CONTINUOUSLY OPERATING REFERENCE STATION (CORS) FNL1 MODIFIED BY A COMBINED FACTOR OF 1.0001854204, SCALED FROM 0.00N ,0.00E AND CONVERTED TO U.S. SURVEY FEET. ALL DIMENSIONS ON THIS MAP ARE GROUND DISTANCES.

**BASIS OF ELEVATIONS**

DATUM: NAVD 88  
PROJECT BENCHMARK = (CORS) FNL1  
HAVING AN ELEVATION OF 3977.75'

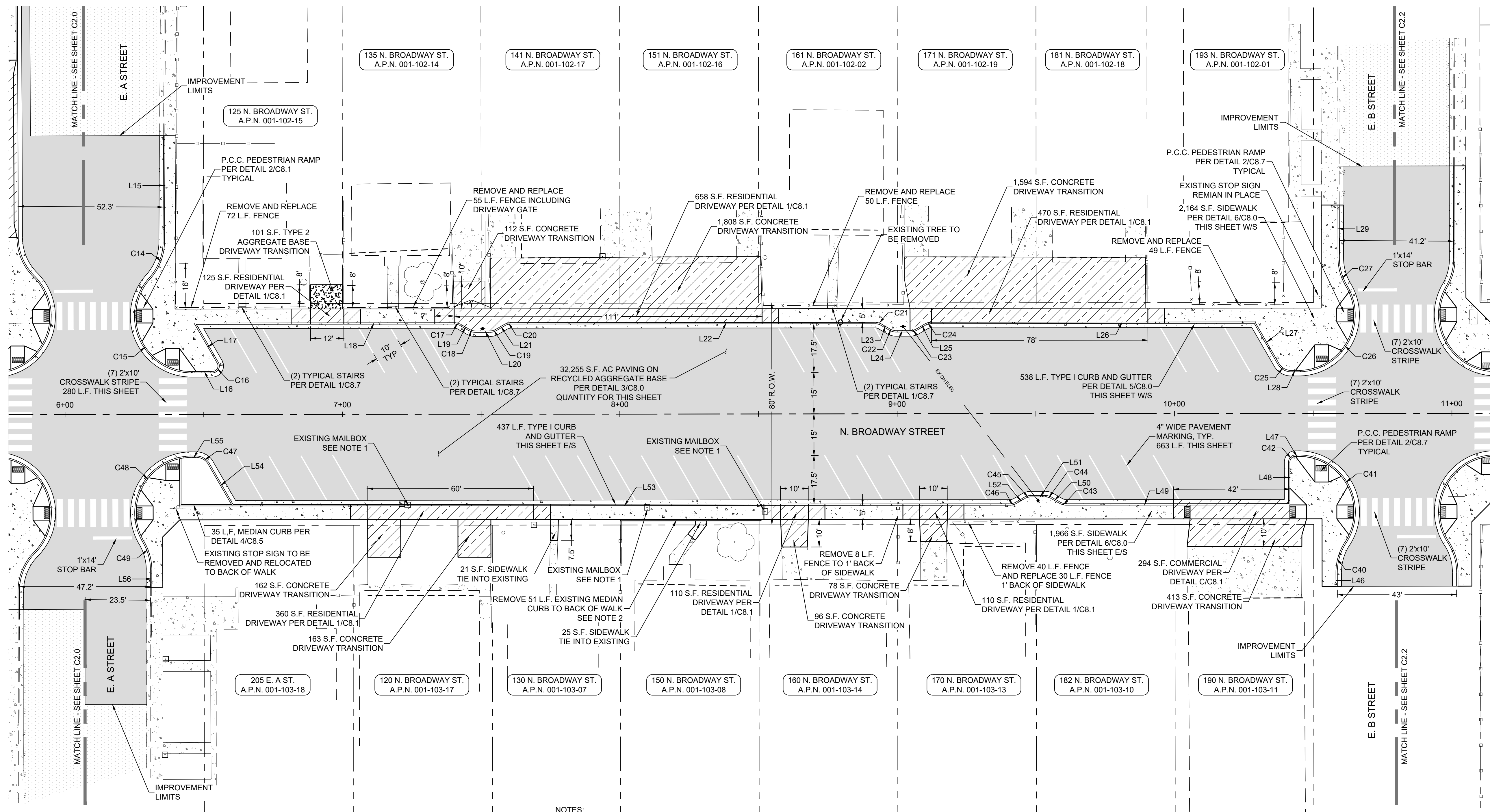


0 60' 120'  
22x34 SHEETS = HORIZONTAL: 1"=60'  
11x17 SHEETS = HORIZONTAL: 1"=120'

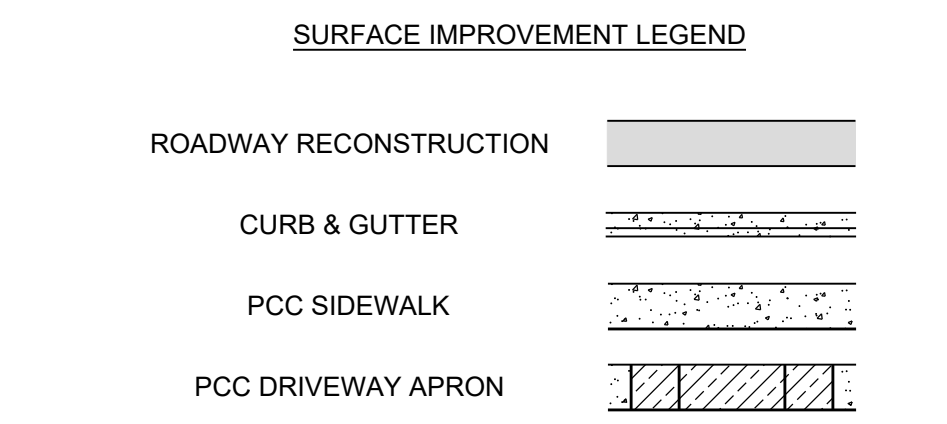
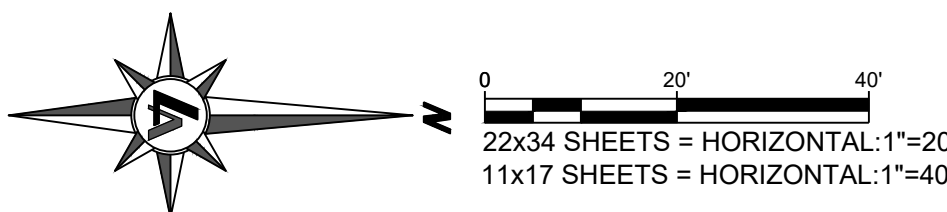




CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION SURFACE IMPROVEMENT PLAN**  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA



- NOTES:
- EXISTING MAILBOX TO BE RELOCATED TO BEHIND SIDEWALK.
  - RELOCATE LANDSCAPE BOULDERS TO BEHIND NEW MEDIAN CURB. COORDINATE WITH OWNER.



LINE #	LENGTH	DIRECTION
L15	33.35	S89° 43' 14.09"E
L16	7.59	N0° 03' 19.63"W
L17	16.74	S59° 56' 40.37"W
L18	93.83	N0° 03' 19.63"W
L19	3.45	N29° 56' 40.37"E
L20	5.00	N0° 03' 19.63"W
L21	3.45	N30° 03' 22.27"W
L22	131.12	N0° 03' 19.63"W
L23	3.45	N29° 56' 40.37"E
L24	5.00	N0° 03' 19.63"W
L25	3.45	N30° 03' 22.27"W
L26	116.61	N0° 03' 19.63"W
L27	17.32	N59° 56' 40.37"E

LINE #	LENGTH	DIRECTION
L28	2.65	N0° 03' 19.62"W
L29	19.08	S89° 53' 11.54"W
L46	5.00	N89° 58' 07.53"E
L47	1.06	N0° 03' 19.63"W
L48	15.50	N90° 00' 00.00"W
L49	80.58	N0° 03' 19.63"W
L50	3.45	N29° 56' 43.01"E
L51	5.00	N0° 03' 19.63"W
L52	3.45	N30° 03' 19.63"W
L53	280.21	N0° 03' 19.63"W
L54	17.32	N59° 56' 40.37"E
L55	1.73	N0° 03' 19.63"W
L56	6.32	N89° 54' 38.90"W

CURVE #	LENGTH	RADIUS	DELTA
C14	14.60	20.00	41.83
C15	46.13	20.00	132.17
C16	4.19	2.00	120.00
C17	2.62	5.00	30.00
C18	2.36	4.50	30.00
C19	2.36	4.50	30.00
C20	2.62	5.00	30.00
C21	2.62	5.00	30.00
C22	2.36	4.50	30.00
C23	2.36	4.50	30.00
C24	2.62	5.00	30.00
C25	5.24	5.00	60.00

CURVE #	LENGTH	RADIUS	DELTA
C26	42.21	20.00	120.93
C27	10.78	20.00	30.88
C40	11.56	20.00	33.12
C41	42.99	20.00	123.15
C42	3.14	2.00	89.94
C43	2.62	5.00	30.00
C44	2.36	4.50	30.00
C45	2.36	4.50	30.00
C46	2.62	5.00	30.00
C47	5.24	5.00	60.00
C48	42.18	20.00	120.84
C49	10.81	20.00	30.98

BY: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

**CONFIRMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

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0 1

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**C2.1**

DRAWN BY: RHH  
DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000





CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN**  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

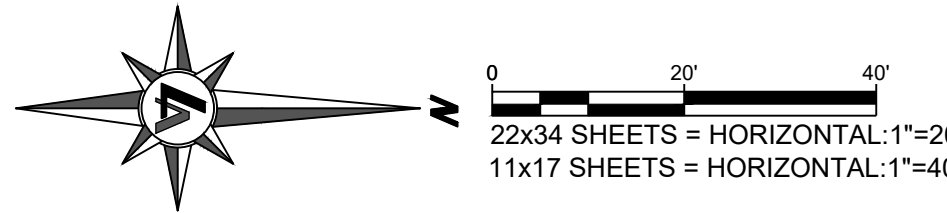
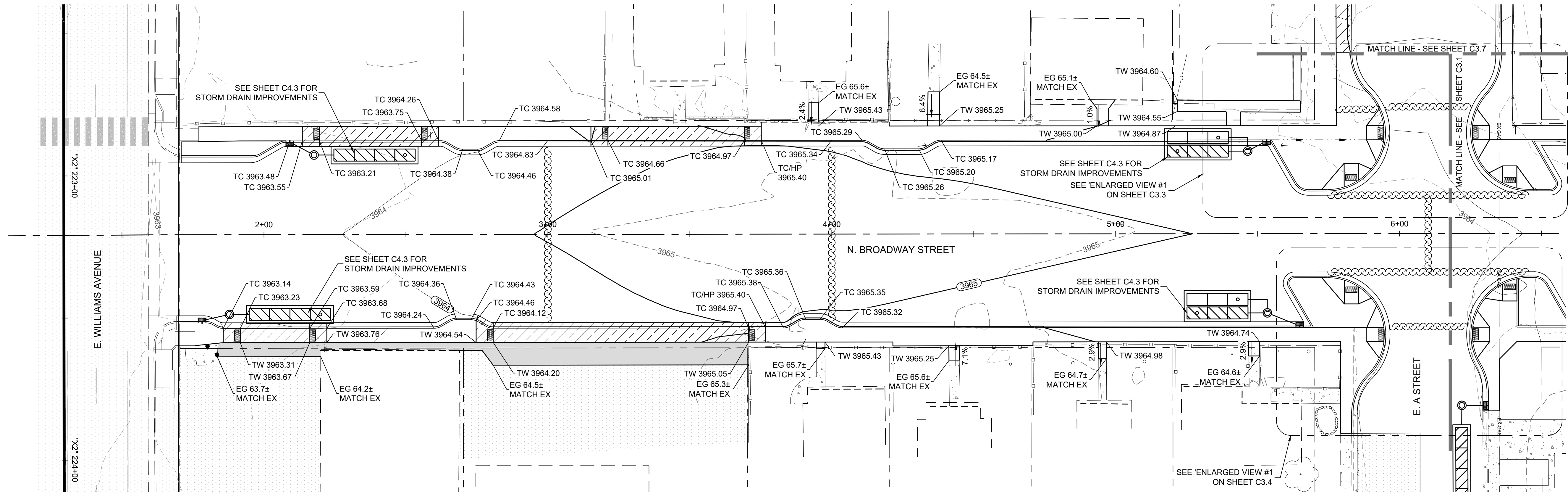
REV.	DATE	DESCRIPTION	BY

**CONFIRMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

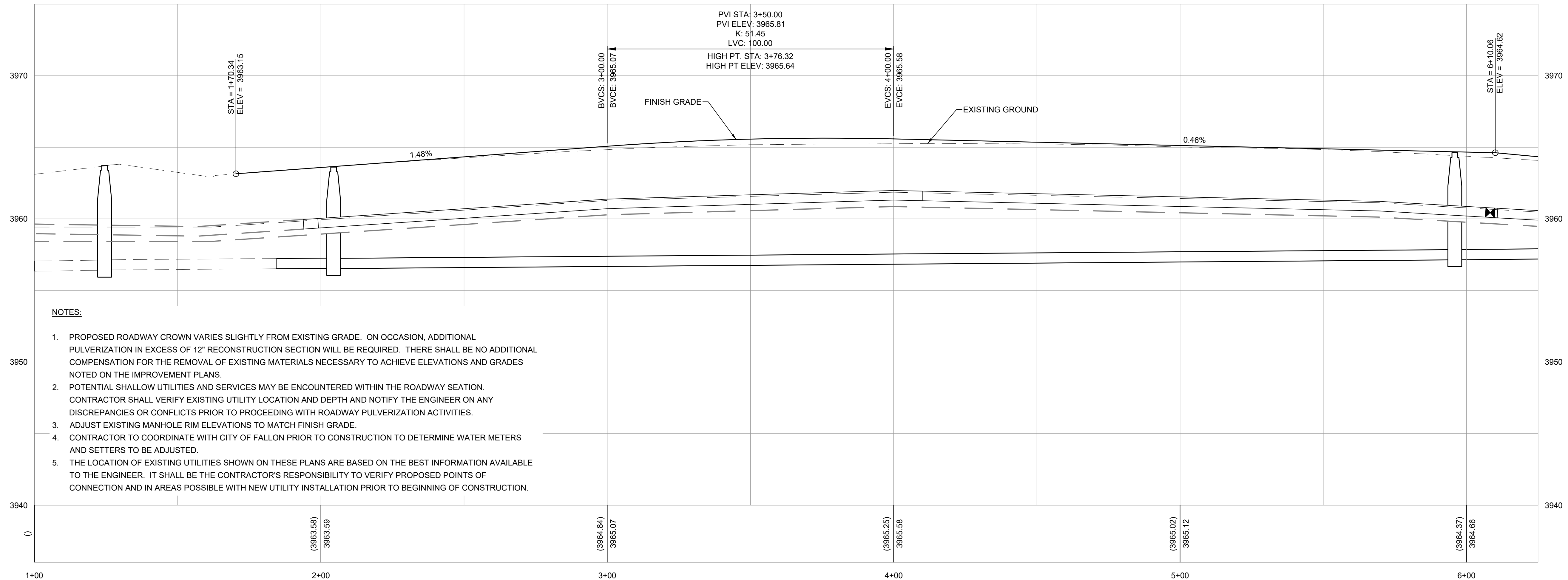
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**C3.0**

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DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

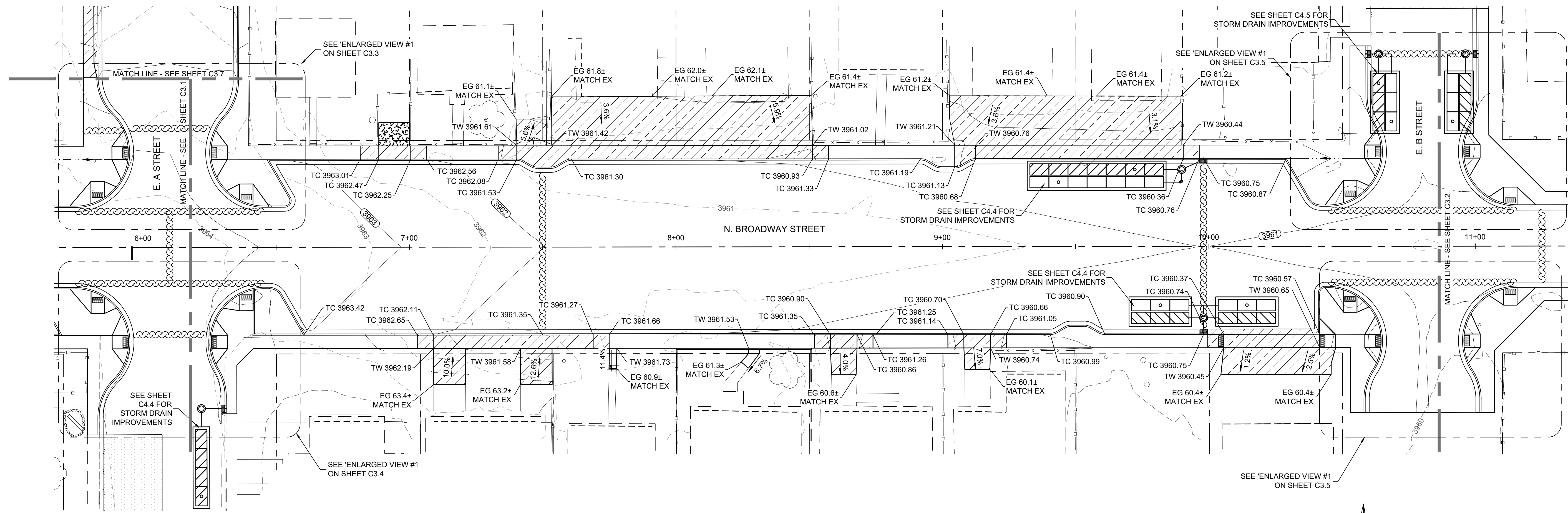


**NORTH BROADWAY STREET - STA:1+00 TO STA:6+25**

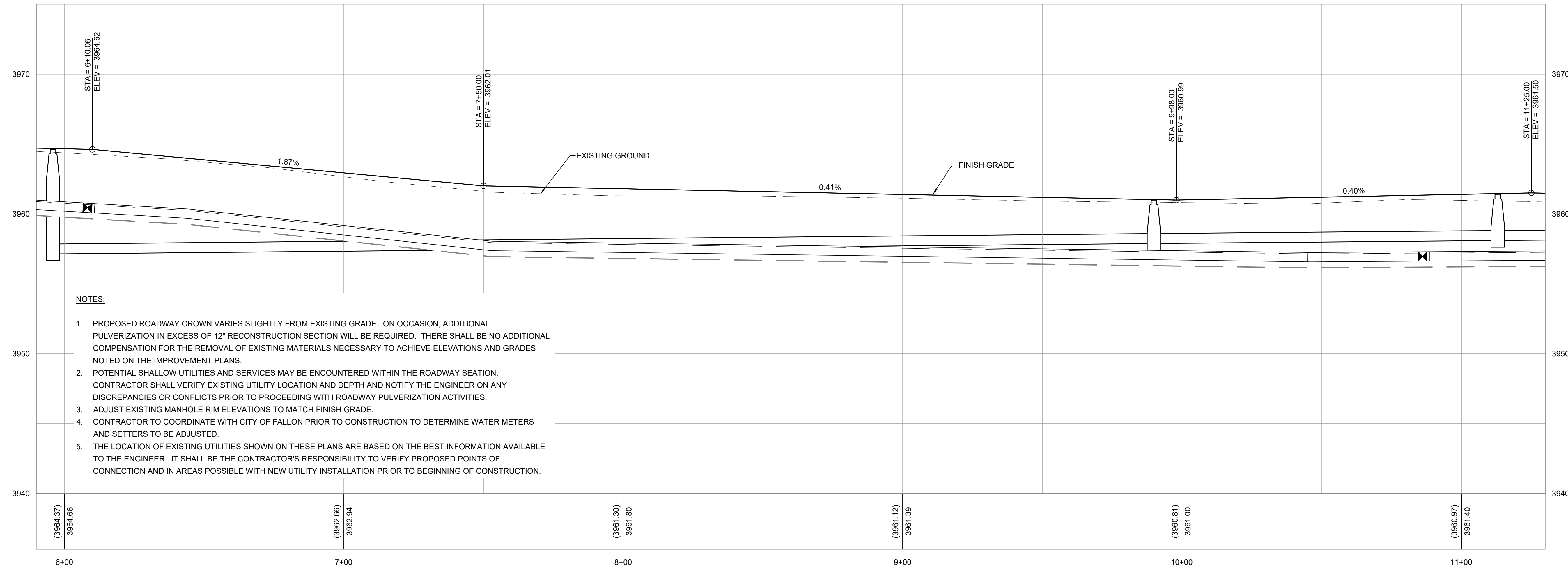
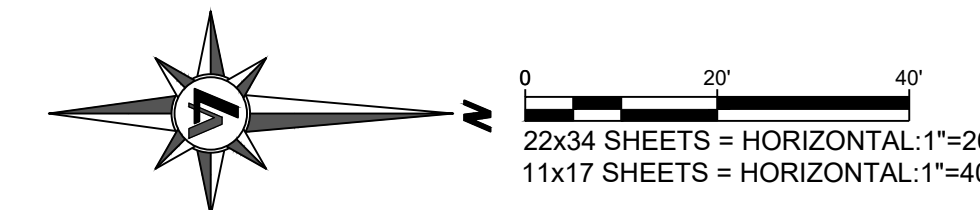


- NOTES:**
1. PROPOSED ROADWAY CROWN VARIES SLIGHTLY FROM EXISTING GRADE. ON OCCASION, ADDITIONAL PULVERIZATION IN EXCESS OF 12" RECONSTRUCTION SECTION WILL BE REQUIRED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE REMOVAL OF EXISTING MATERIALS NECESSARY TO ACHIEVE ELEVATIONS AND GRADES NOTED ON THE IMPROVEMENT PLANS.
  2. POTENTIAL SHALLOW UTILITIES AND SERVICES MAY BE ENCOUNTERED WITHIN THE ROADWAY SECTION. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATION AND DEPTH AND NOTIFY THE ENGINEER ON ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ROADWAY PULVERIZATION ACTIVITIES.
  3. ADJUST EXISTING MANHOLE RIM ELEVATIONS TO MATCH FINISH GRADE.
  4. CONTRACTOR TO COORDINATE WITH CITY OF FALLON PRIOR TO CONSTRUCTION TO DETERMINE WATER METERS AND SETTERS TO BE ADJUSTED.
  5. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS POSSIBLE WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING OF CONSTRUCTION.

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NORTH BROADWAY STREET - STA:5+90 TO STA:11+30



- NOTES:**
1. PROPOSED ROADWAY CROWN VARIES SLIGHTLY FROM EXISTING GRADE. ON OCCASION, ADDITIONAL PULVERIZATION IN EXCESS OF 12" RECONSTRUCTION SECTION WILL BE REQUIRED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE REMOVAL OF EXISTING MATERIALS NECESSARY TO ACHIEVE ELEVATIONS AND GRADES NOTED ON THE IMPROVEMENT PLANS.
  2. POTENTIAL SHALLOW UTILITIES AND SERVICES MAY BE ENCOUNTERED WITHIN THE ROADWAY SECTION. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATION AND DEPTH AND NOTIFY THE ENGINEER ON ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ROADWAY PULVERIZATION ACTIVITIES.
  3. ADJUST EXISTING MANHOLE RIM ELEVATIONS TO MATCH FINISH GRADE.
  4. CONTRACTOR TO COORDINATE WITH CITY OF FALLON PRIOR TO CONSTRUCTION TO DETERMINE WATER METERS AND SETTERS TO BE ADJUSTED.
  5. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS POSSIBLE WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING OF CONSTRUCTION.

CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN**  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

REV	DATE	DESCRIPTION	BY

**CONFORMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

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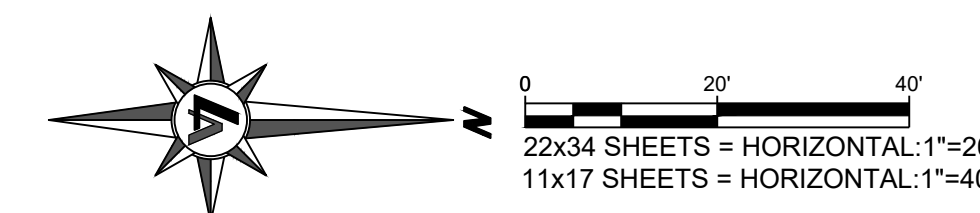
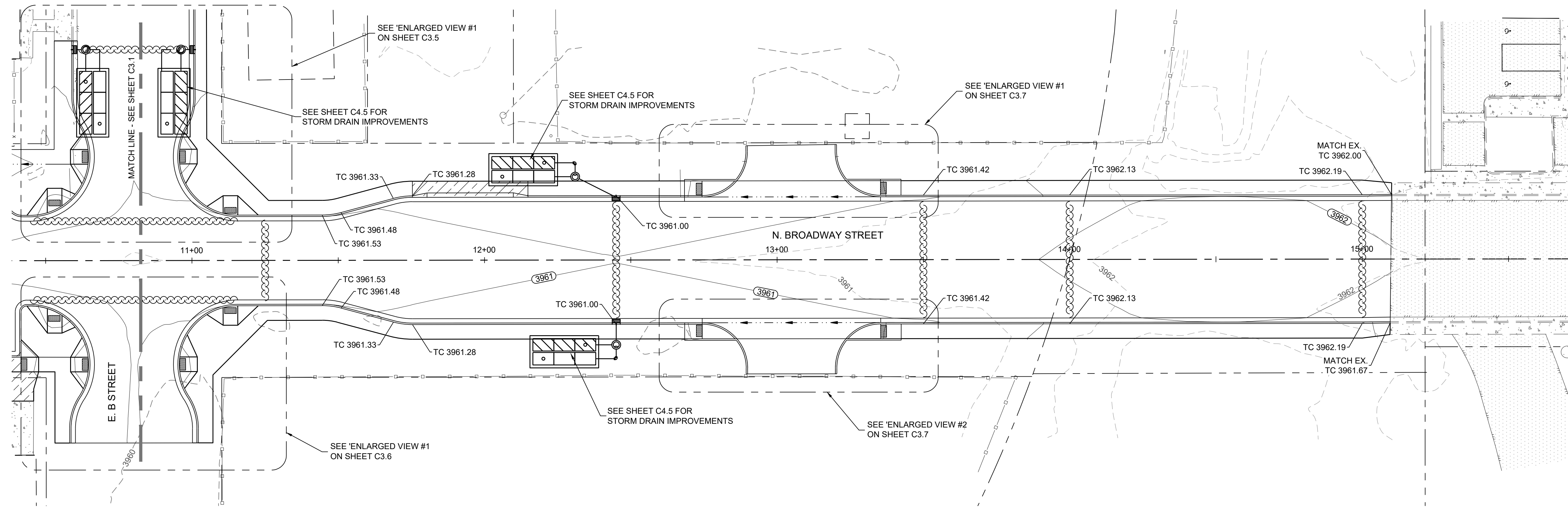
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**C3.1**

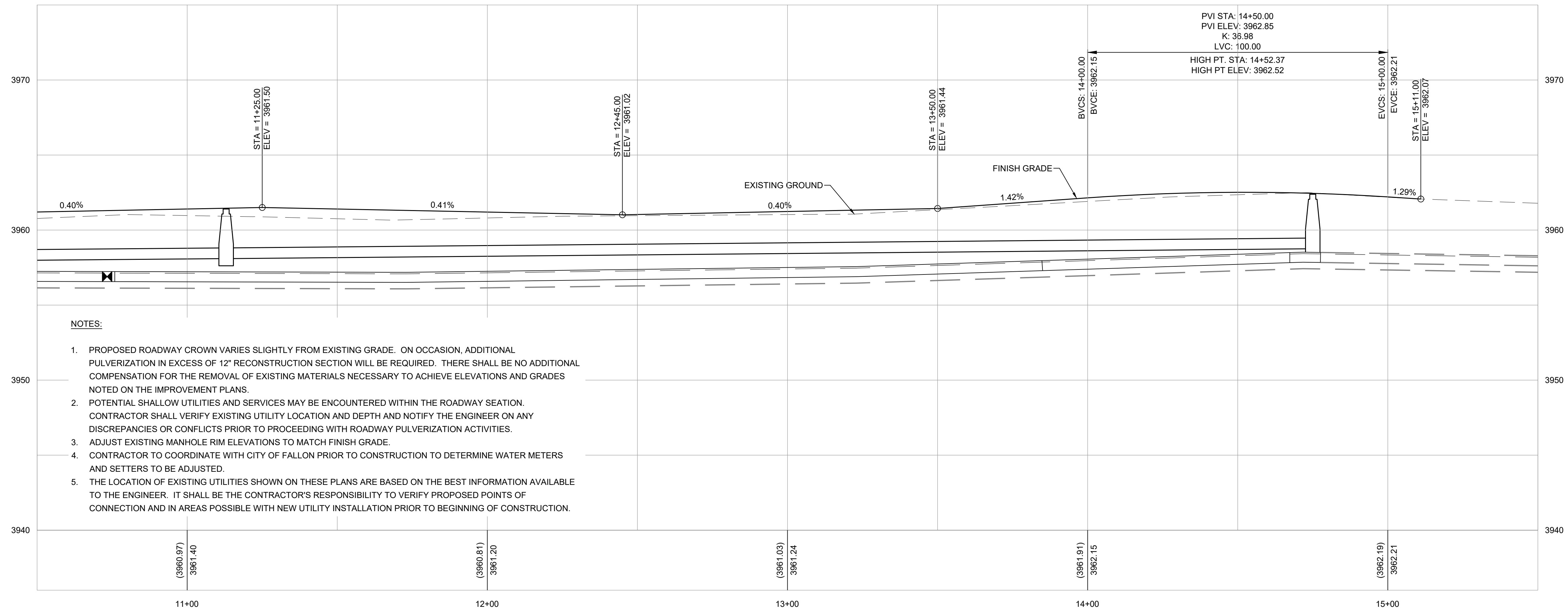
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DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

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**NORTH BROADWAY STREET - STA:10+50 TO STA:15+50**



**NOTES:**

- PROPOSED ROADWAY CROWN VARIES SLIGHTLY FROM EXISTING GRADE. ON OCCASION, ADDITIONAL PULVERIZATION IN EXCESS OF 12" RECONSTRUCTION SECTION WILL BE REQUIRED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE REMOVAL OF EXISTING MATERIALS NECESSARY TO ACHIEVE ELEVATIONS AND GRADES NOTED ON THE IMPROVEMENT PLANS.
- POTENTIAL SHALLOW UTILITIES AND SERVICES MAY BE ENCOUNTERED WITHIN THE ROADWAY SECTION. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATION AND DEPTH AND NOTIFY THE ENGINEER ON ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ROADWAY PULVERIZATION ACTIVITIES.
- ADJUST EXISTING MANHOLE RIM ELEVATIONS TO MATCH FINISH GRADE.
- CONTRACTOR TO COORDINATE WITH CITY OF FALLON PRIOR TO CONSTRUCTION TO DETERMINE WATER METERS AND SETTERS TO BE ADJUSTED.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS POSSIBLE WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING OF CONSTRUCTION.

CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN**  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

REV	DATE	DESCRIPTION	BY

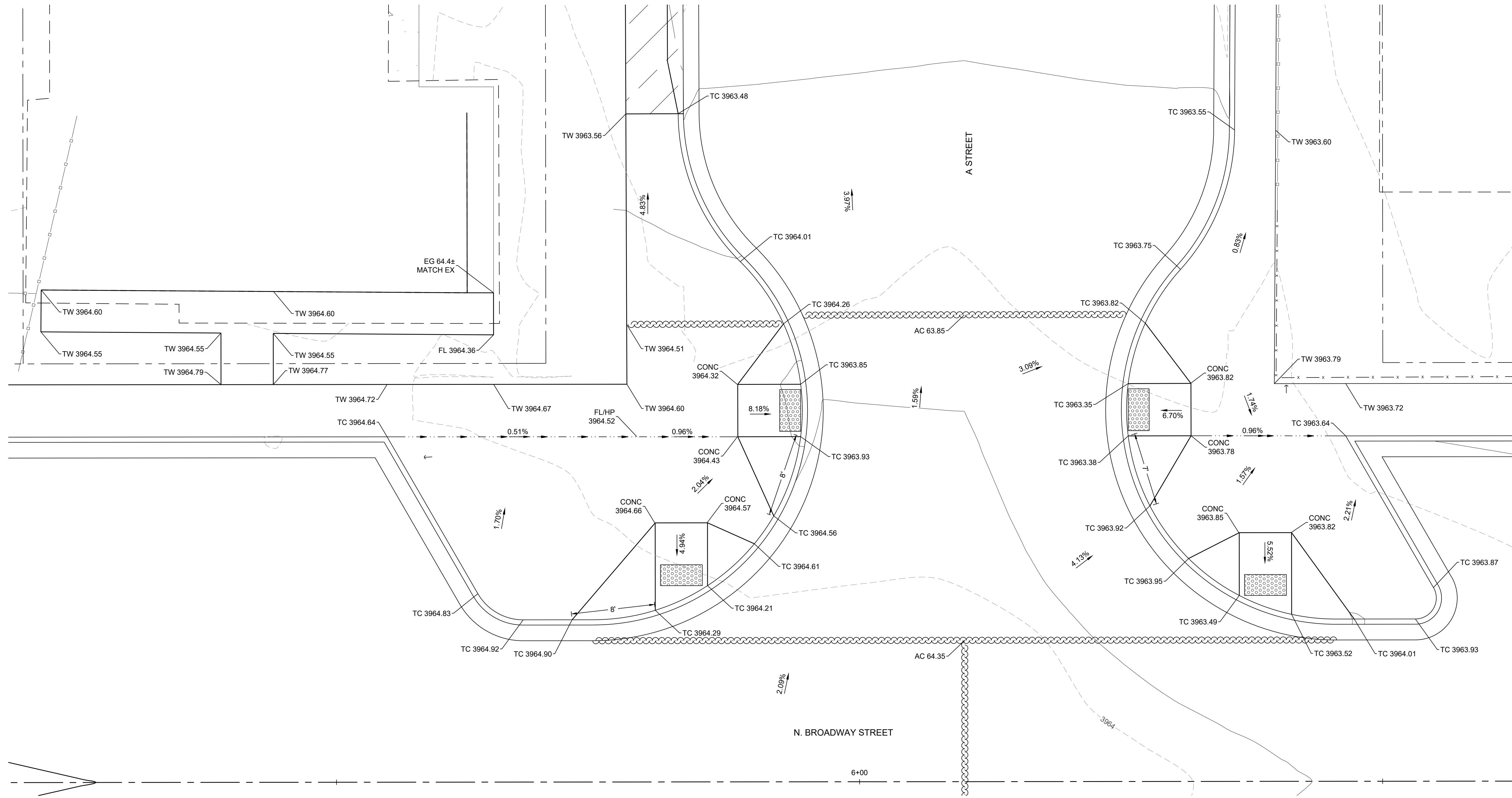
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ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

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 JOB NO.: 10514.000

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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN - ENLARGED VIEW**  
CITY OF FALLON CHURCHILL COUNTY NEVADA



- NOTES:
1. PEDESTRIAN RAMP WING SHALL BE 6' MINIMUM LENGTH (UNLESS NOTED ON THIS PLAN) AND NOT EXCEED 8.3%.

**ENLARGED VIEW #1**



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REV.	DATE	DESCRIPTION	BY

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ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

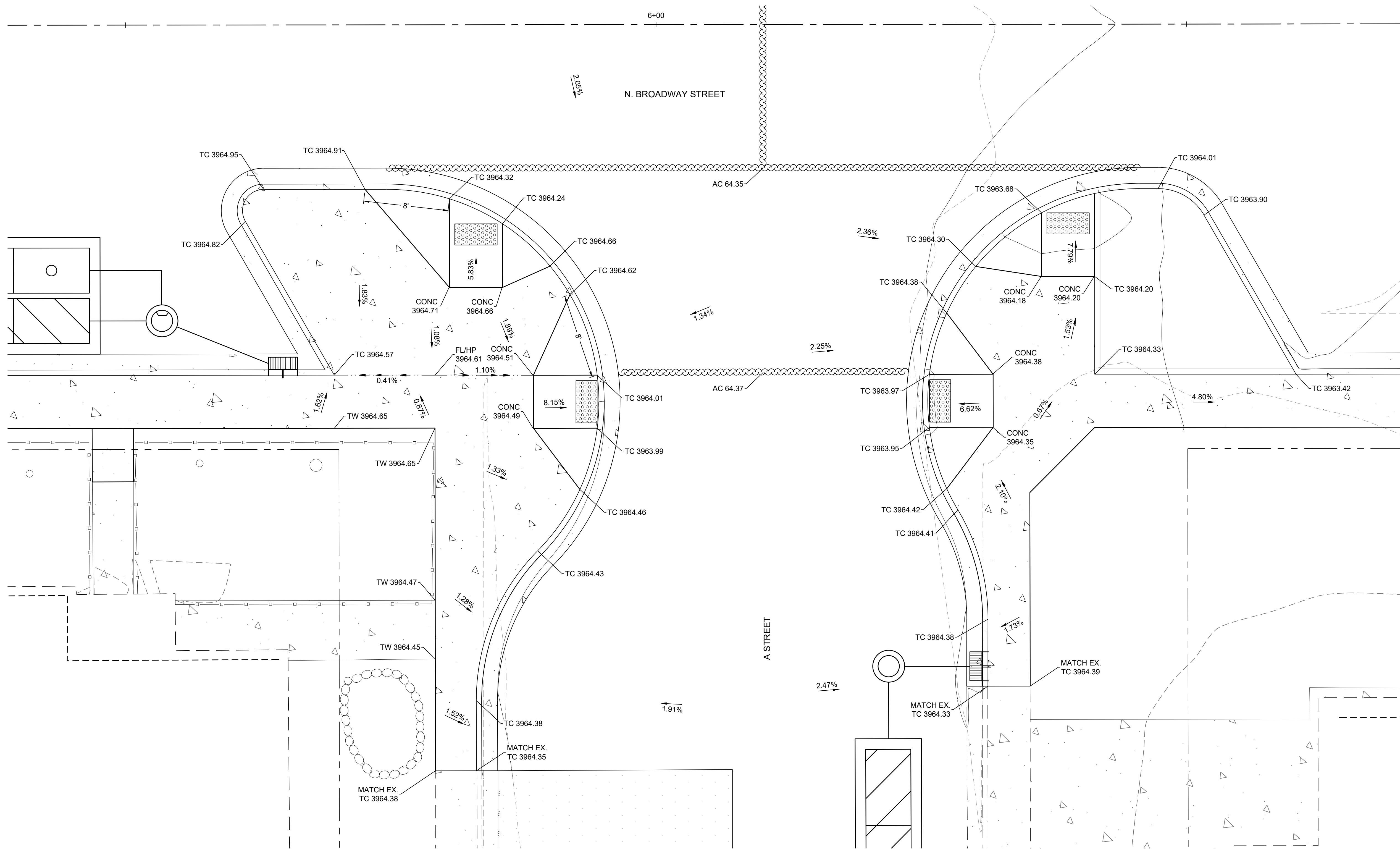
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JOB NO.: 10514.000



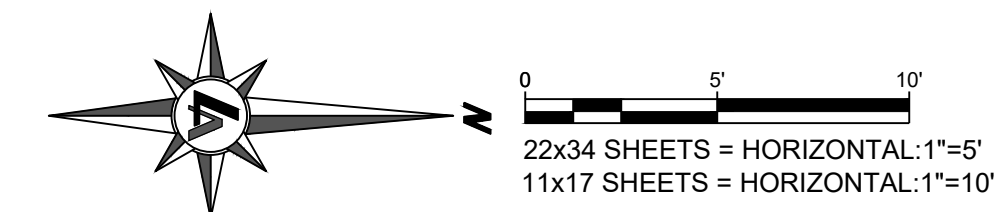
CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION**  
**GRADING PLAN - ENLARGED VIEW**  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA



**ENLARGED VIEW #1**

**NOTES:**

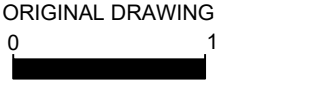
1. PEDESTRIAN RAMP WING SHALL BE 6' MINIMUM LENGTH (UNLESS NOTED ON THIS PLAN) AND NOT EXCEED 8.3%.



REV.	DATE	DESCRIPTION	BY

**CONFIRMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

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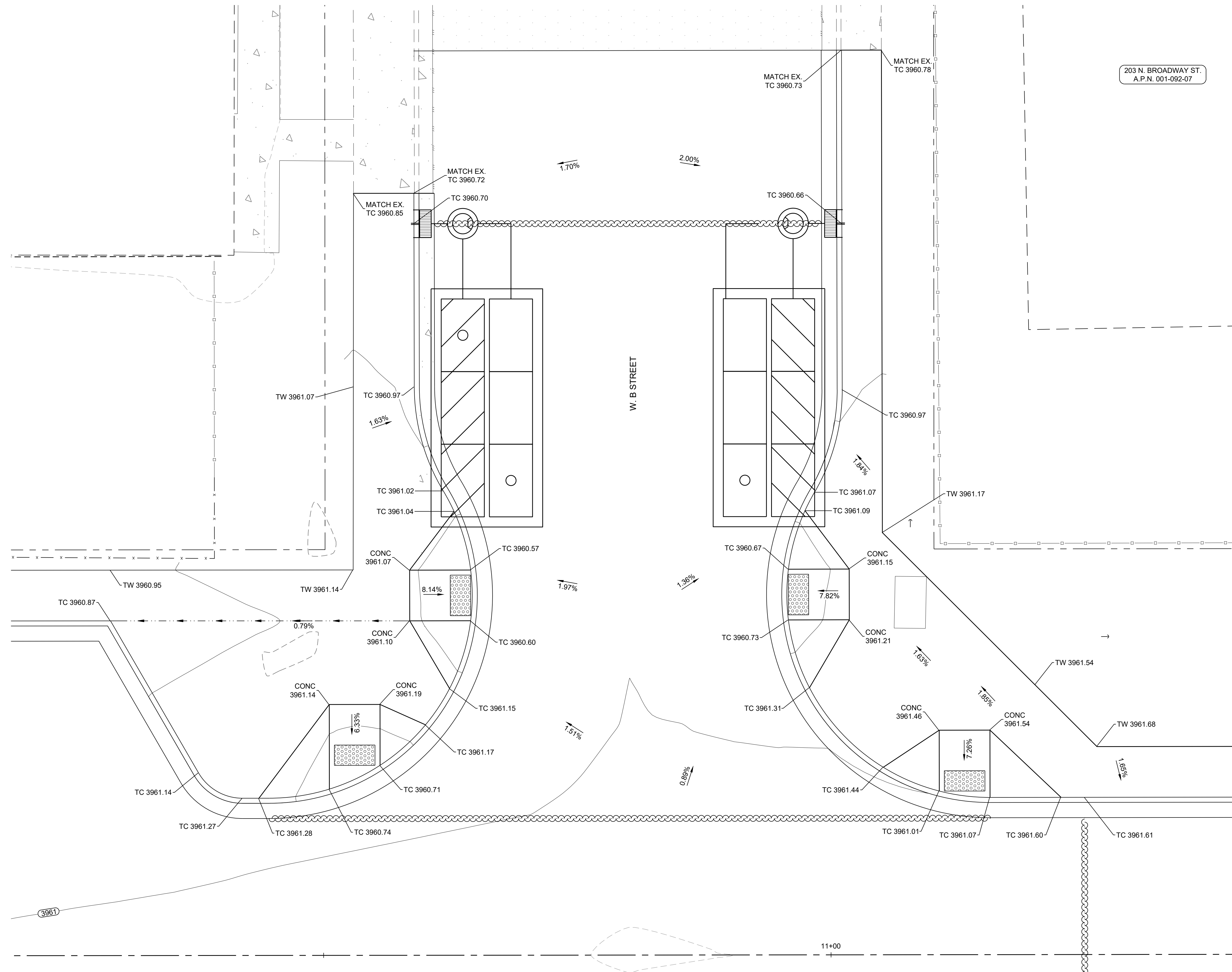
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**C3.4**

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DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000



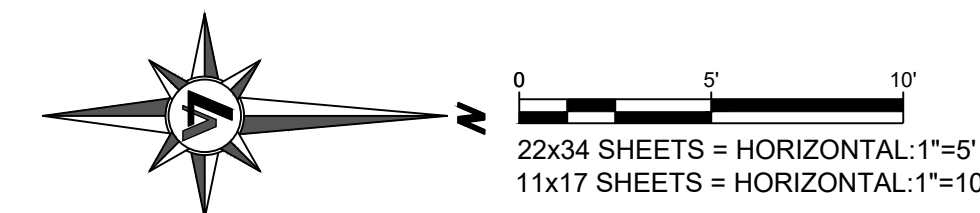
CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN - ENLARGED VIEW**  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA



NOTES:

1. PEDESTRIAN RAMP WING SHALL BE 6' MINIMUM LENGTH (UNLESS NOTED ON THIS PLAN) AND NOT EXCEED 8.3%.

**ENLARGED VIEW #1**



REV.	DATE	DESCRIPTION	BY

**CONFIRMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

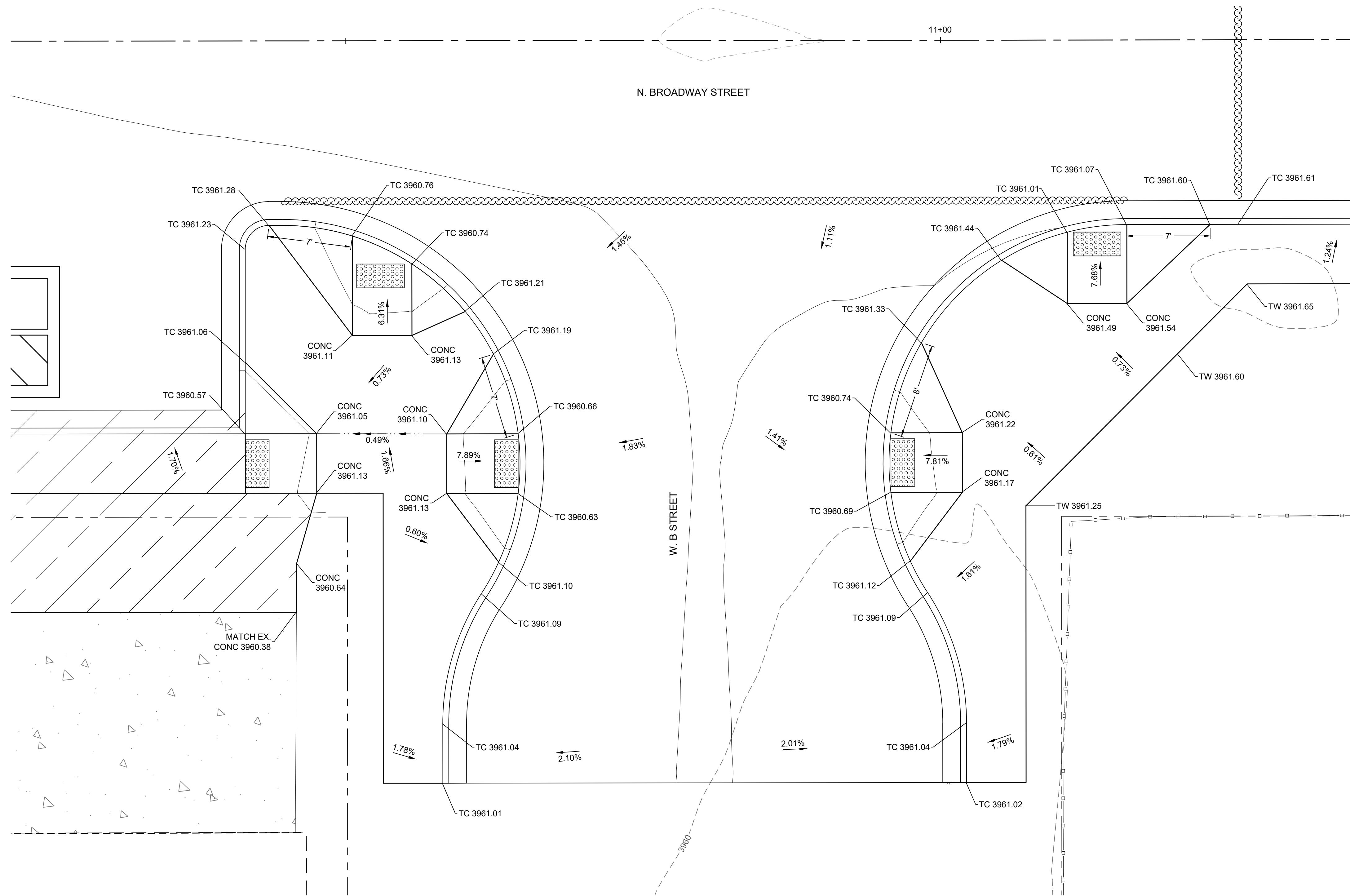
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**C3.5**

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DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

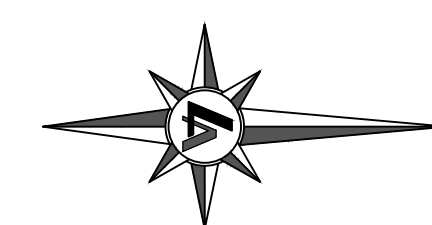
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ENLARGED VIEW #1

NOTES:

1. PEDESTRIAN RAMP WING SHALL BE 6' MINIMUM LENGTH (UNLESS NOTED ON THIS PLAN) AND NOT EXCEED 8.3%.

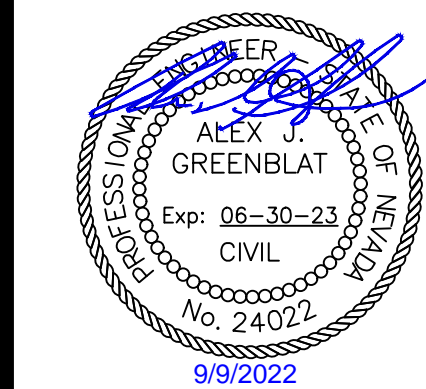


0 5 10'  
 22x34 SHEETS = HORIZONTAL: 1"=5'  
 11x17 SHEETS = HORIZONTAL: 1"=10'



178 SOUTH MAINE ST.  
 FALLON, NV 89406  
 TEL: 775.424.2188  
 WWW.LUMOSINC.COM  
 INFO@LUMOSINC.COM

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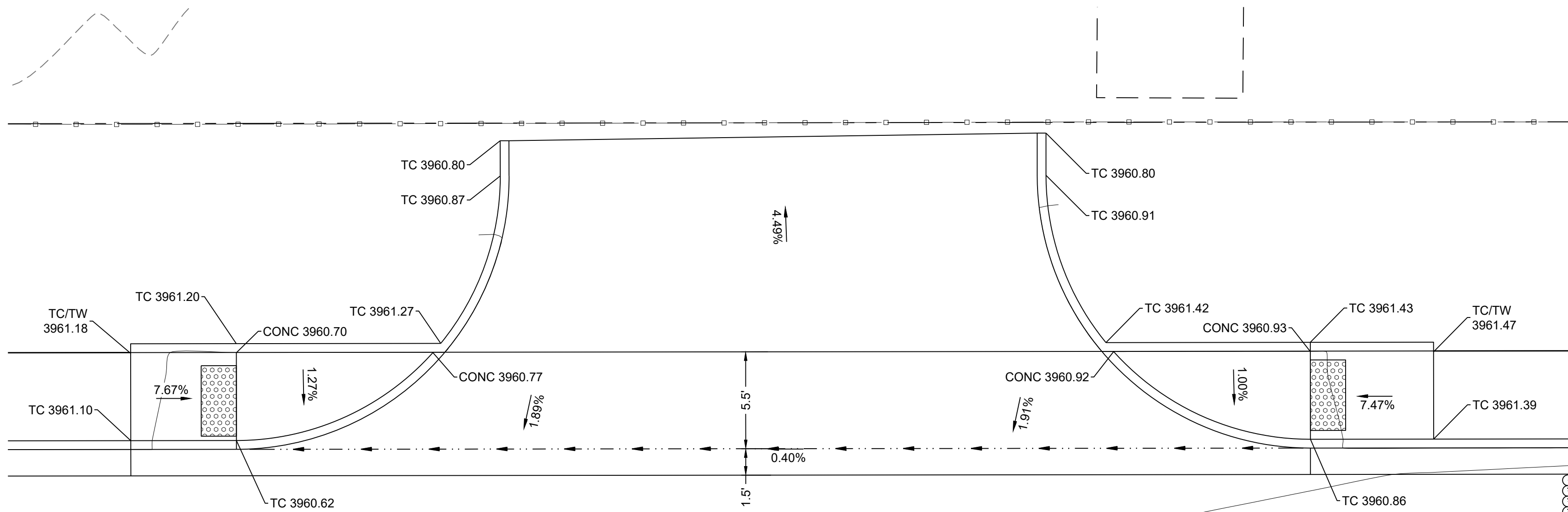
CITY OF FALLON  
 SHERMAN STREET & NORTH BROADWAY  
 STREET REHABILITATION  
 GRADING PLAN - ENLARGED VIEW  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

REV.	DATE	DESCRIPTION	BY

**CONFORMED SET**  
 ISSUED FOR CONSTRUCTION  
 SEPTEMBER 9, 2022

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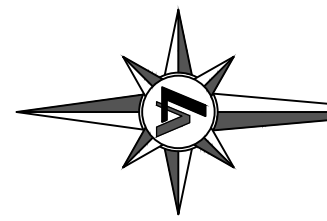
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 DRAWN BY: RHH  
 DESIGNED BY: RHH  
 CHECKED BY: AJG  
 JOB NO.: 10514.000



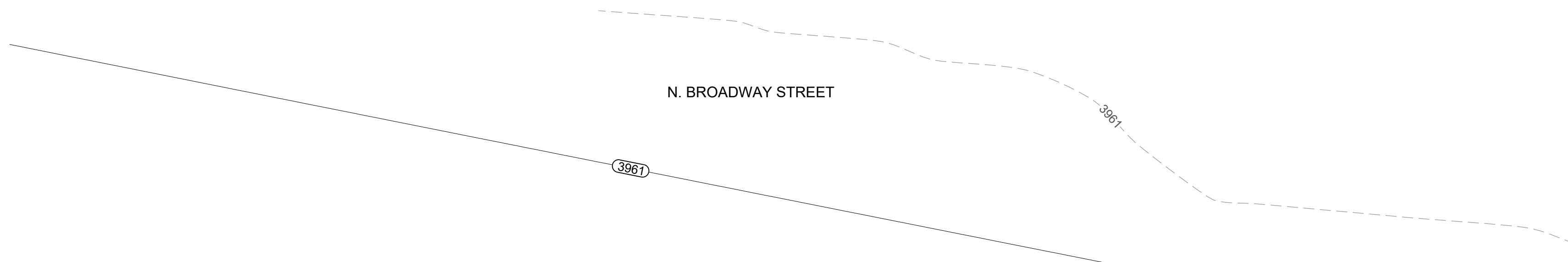
NOTES:

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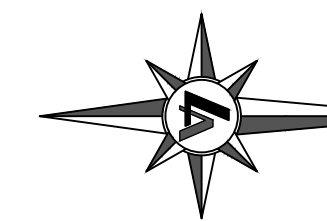
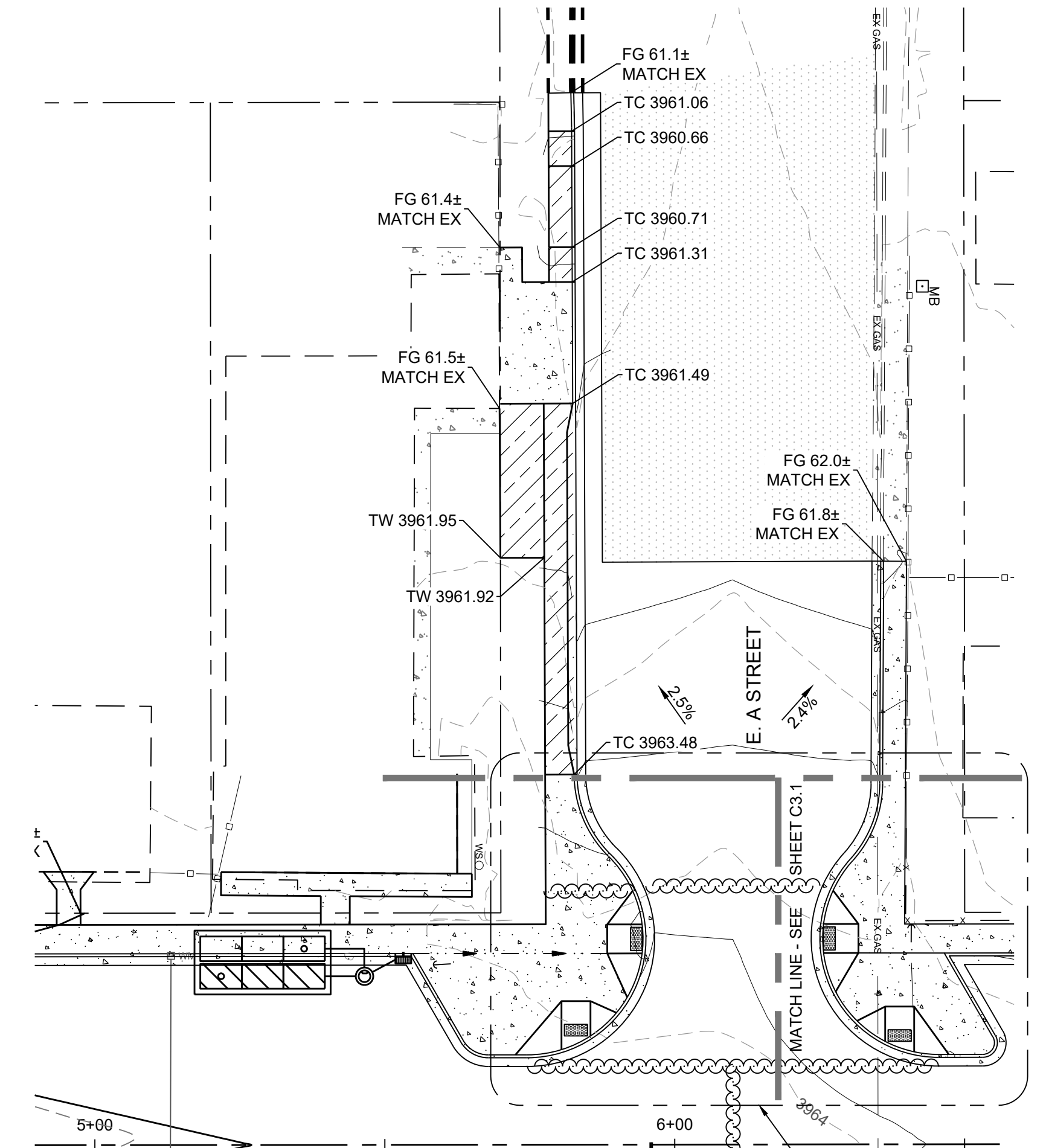
ENLARGED VIEW #1



0 5' 10'  
 22x34 SHEETS = HORIZONTAL: 1"=5'  
 11x17 SHEETS = HORIZONTAL: 1"=10'



ENLARGED VIEW #2



0 20' 40'  
 22x34 SHEETS = HORIZONTAL: 1"=20'  
 11x17 SHEETS = HORIZONTAL: 1"=40'



CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN**  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

REV.	DATE	DESCRIPTION	BY

**CONFORMED SET**  
 ISSUED FOR CONSTRUCTION  
 SEPTEMBER 9, 2022

BAR IS 1 INCH ON ORIGINAL DRAWING  
 0 1

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**C3.7**

DRAWN BY: RHH  
 DESIGNED BY: RHH  
 CHECKED BY: AJG  
 JOB NO.: 10514.000



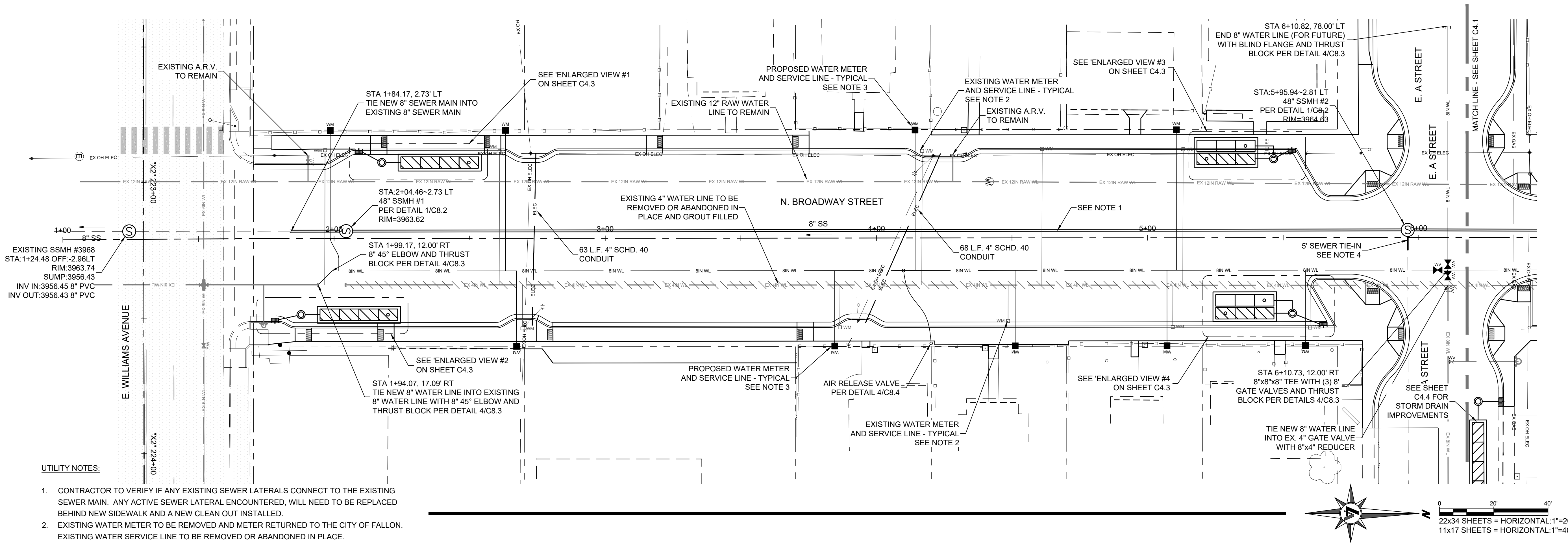
CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION UTILITY PLAN AND PROFILE**  
CHURCHILL COUNTY  
NEVADA  
CITY OF FALLON

REV.	DATE	DESCRIPTION	BY

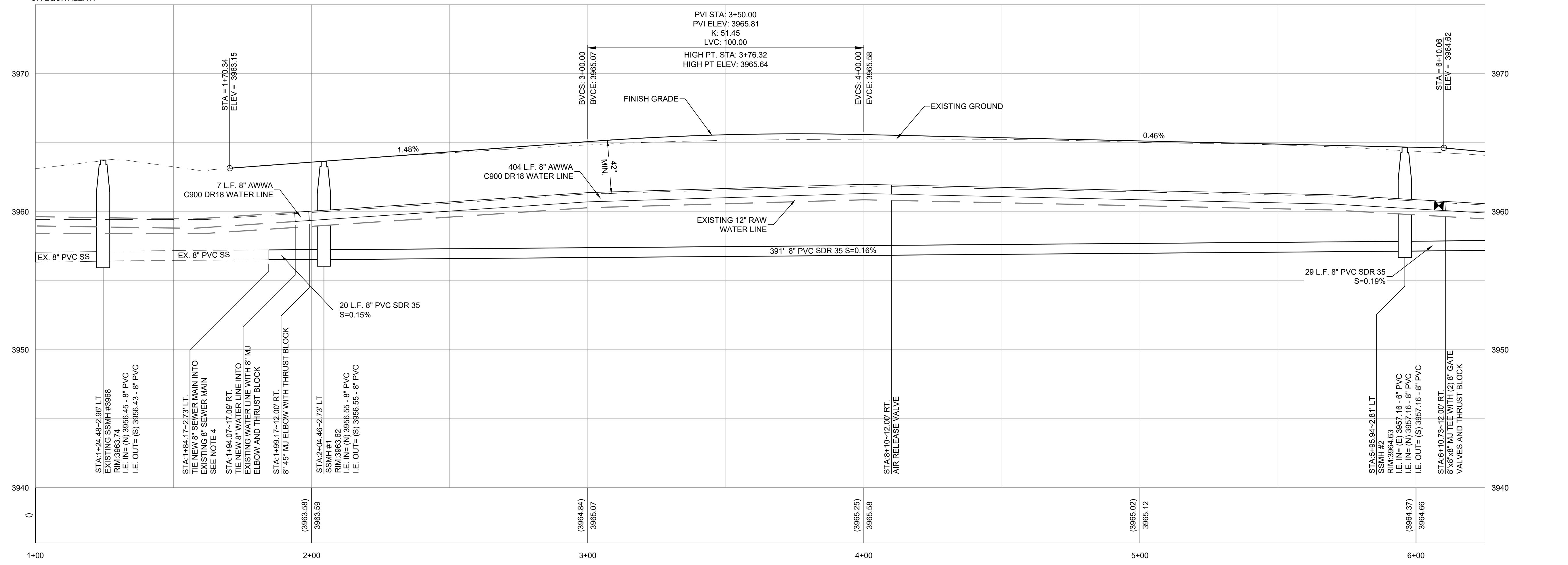
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SEPTEMBER 9, 2022

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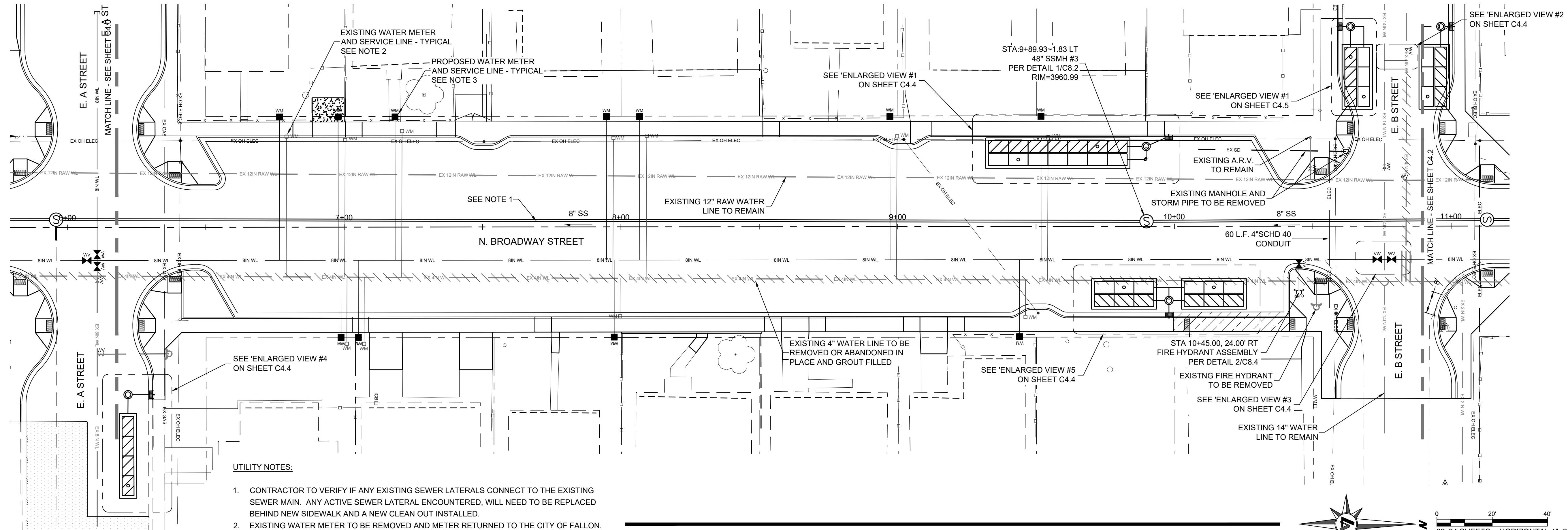
**C4.0**  
DRAWN BY: RHH  
DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000



**NORTH BROADWAY STREET - STA:1+00 TO STA:6+25**



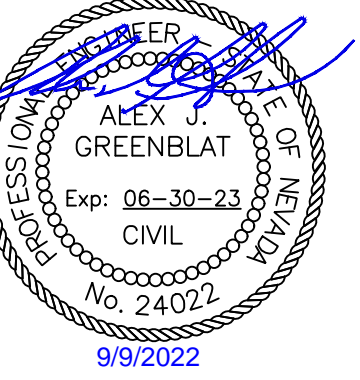
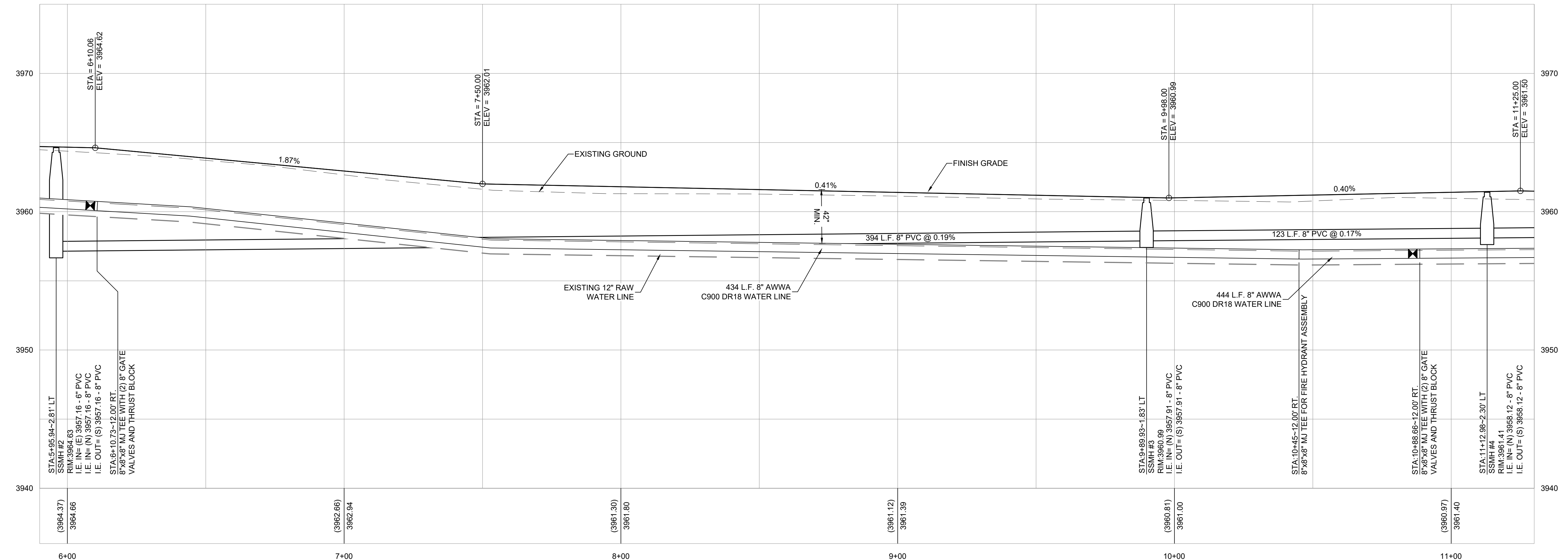
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**UTILITY NOTES:**

1. CONTRACTOR TO VERIFY IF ANY EXISTING SEWER LATERALS CONNECT TO THE EXISTING SEWER MAIN. ANY ACTIVE SEWER LATERAL ENCOUNTERED, WILL NEED TO BE REPLACED BEHIND NEW SIDEWALK AND A NEW CLEAN OUT INSTALLED.
2. EXISTING WATER METER TO BE REMOVED AND METER RETURNED TO THE CITY OF FALLON. EXISTING WATER SERVICE LINE TO BE REMOVED OR ABANDONED IN PLACE.
3. PROPOSED WATER METER TO BE INSTALLED PER DETAIL 1/C8.4. WATER SERVICE LINE TO BE INSTALLED PER DETAIL 6/C8.3
4. CONTRACTOR TO TIE NEW SEWER MAIN INTO EXISTING SEWER MAIN WITH FERNCO FITTING OR EQUIVALENT.

**NORTH BROADWAY STREET - STA:5+90 TO STA:11+30**



**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION UTILITY PLAN AND PROFILE**

CITY OF FALLON

NEVADA

CHURCHILL COUNTY

CITY OF FALLON

REV	DATE	DESCRIPTION	BY

**CONFIRMED SET**  
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SEPTEMBER 9, 2022

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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION**  
**UTILITY PLAN AND PROFILE**  
CHURCHILL COUNTY  
NEVADA  
CITY OF FALLON

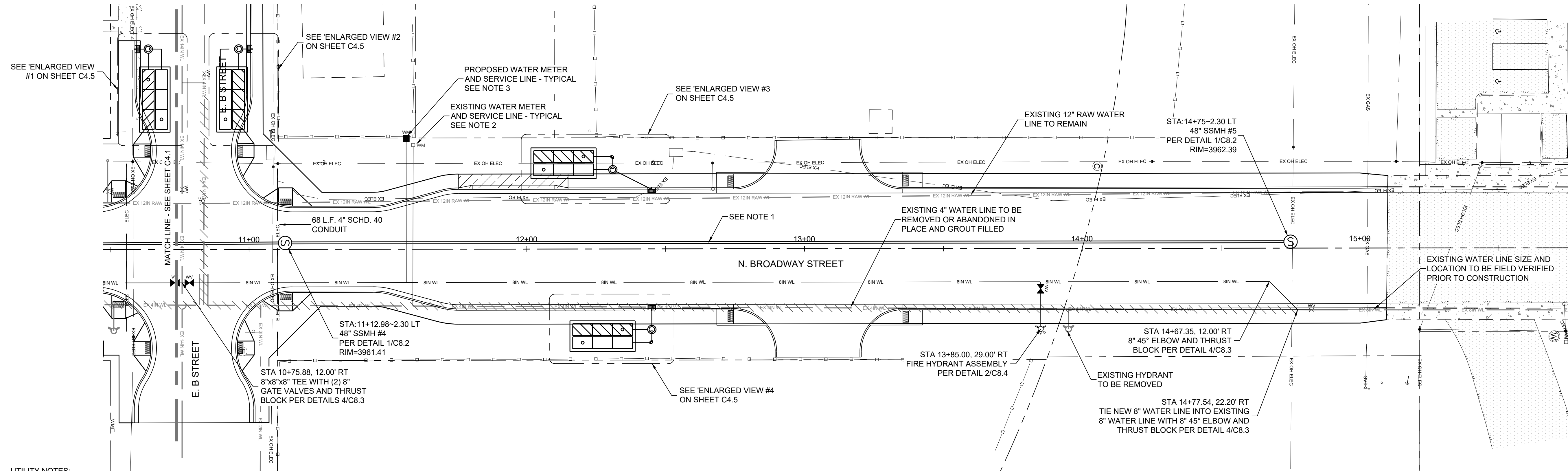
REV	DATE	DESCRIPTION	BY

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SEPTEMBER 9, 2022

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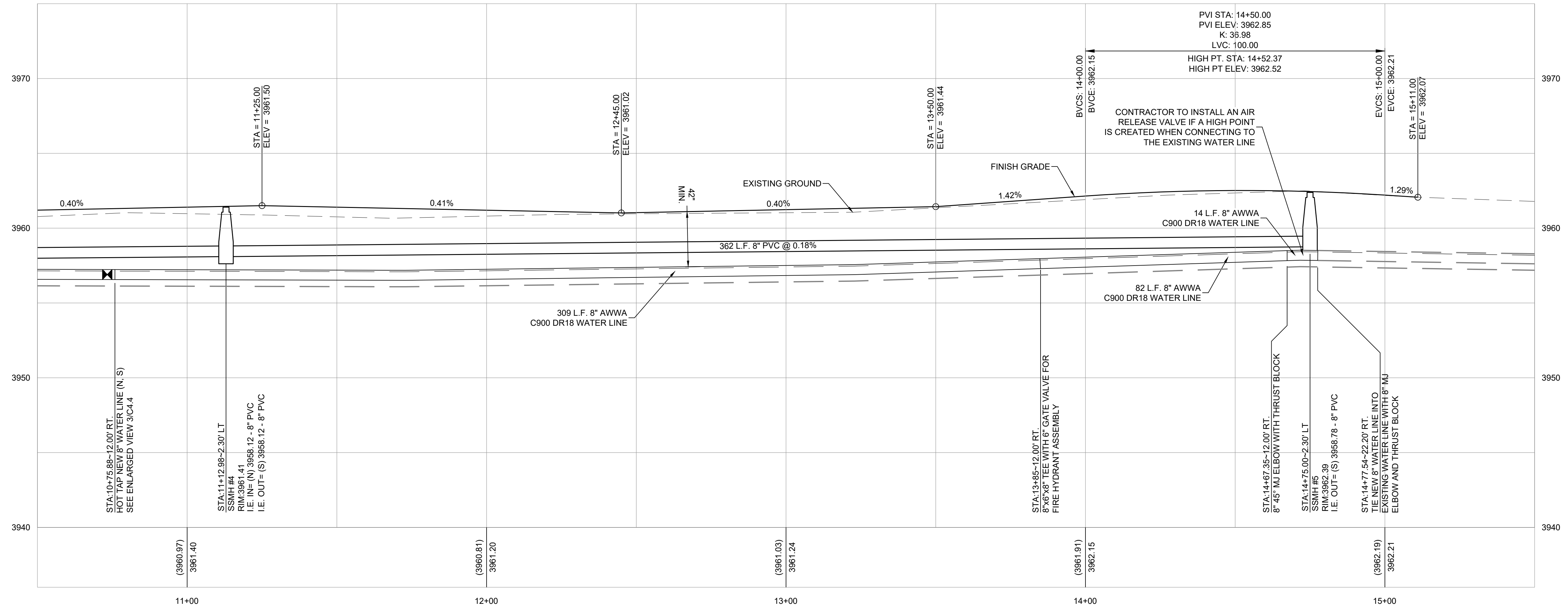
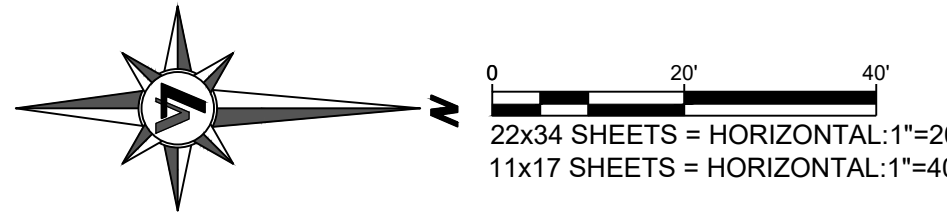
**C4.2**

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DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000



- UTILITY NOTES:**
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  - EXISTING WATER METER TO BE REMOVED AND METER RETURNED TO THE CITY OF FALLON. EXISTING WATER SERVICE LINE TO BE REMOVED OR ABANDONED IN PLACE.
  - PROPOSED WATER METER TO BE INSTALLED PER DETAIL 1/C8.4. WATER SERVICE LINE TO BE INSTALLED PER DETAIL 6/C8.3
  - CONTRACTOR TO TIE NEW SEWER MAIN INTO EXISTING SEWER MAIN WITH FERNCO FITTING OR EQUIVALENT.

**NORTH BROADWAY STREET - STA:10+50 TO STA:15+50**



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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
UTILITY ENLARGED VIEWS**  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

REV.	DATE	DESCRIPTION	BY

**CONFIRMED SET  
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SEPTEMBER 9, 2022**

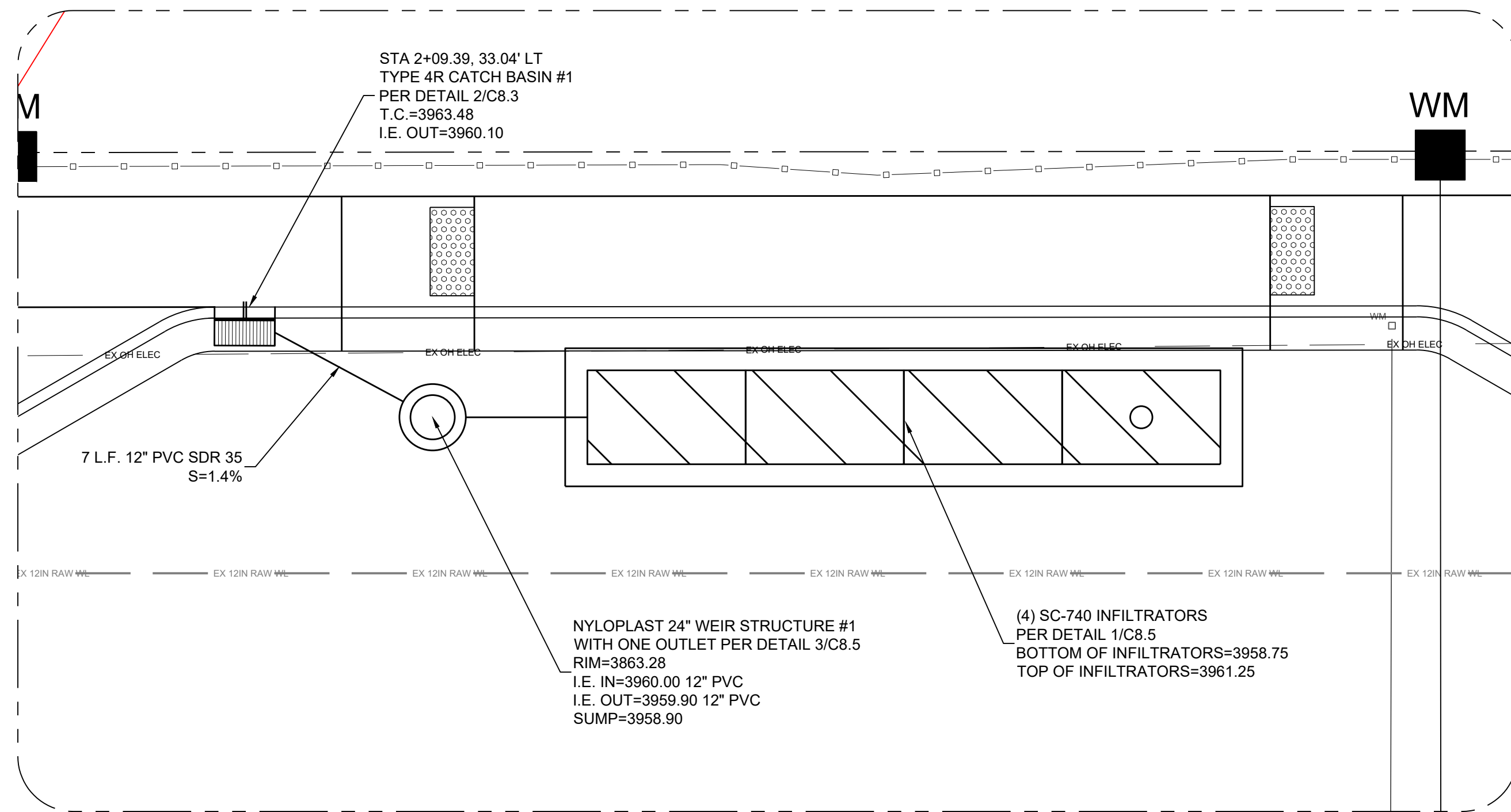
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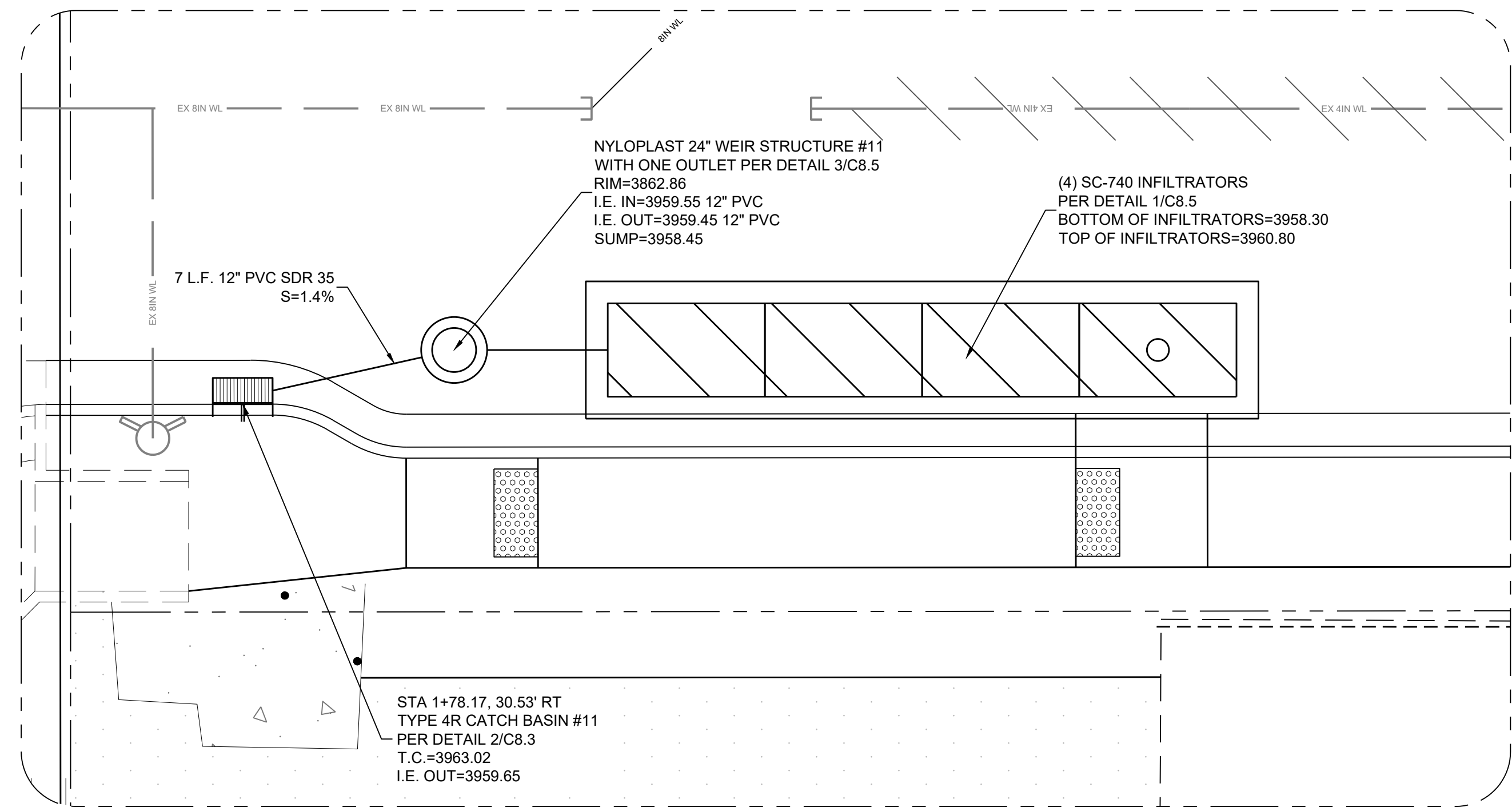
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DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

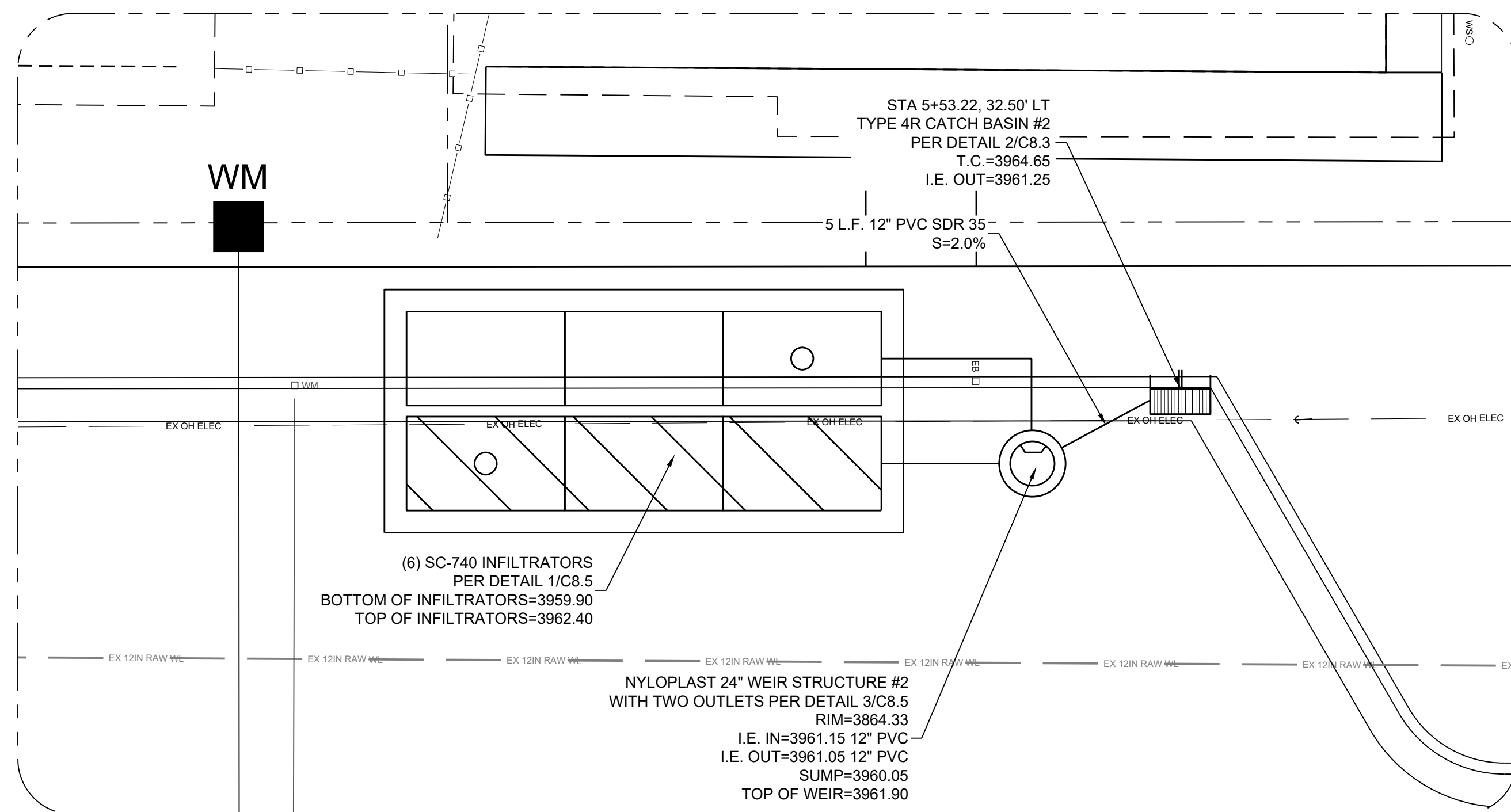
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22x34 SHEETS = HORIZONTAL: 1"=50'



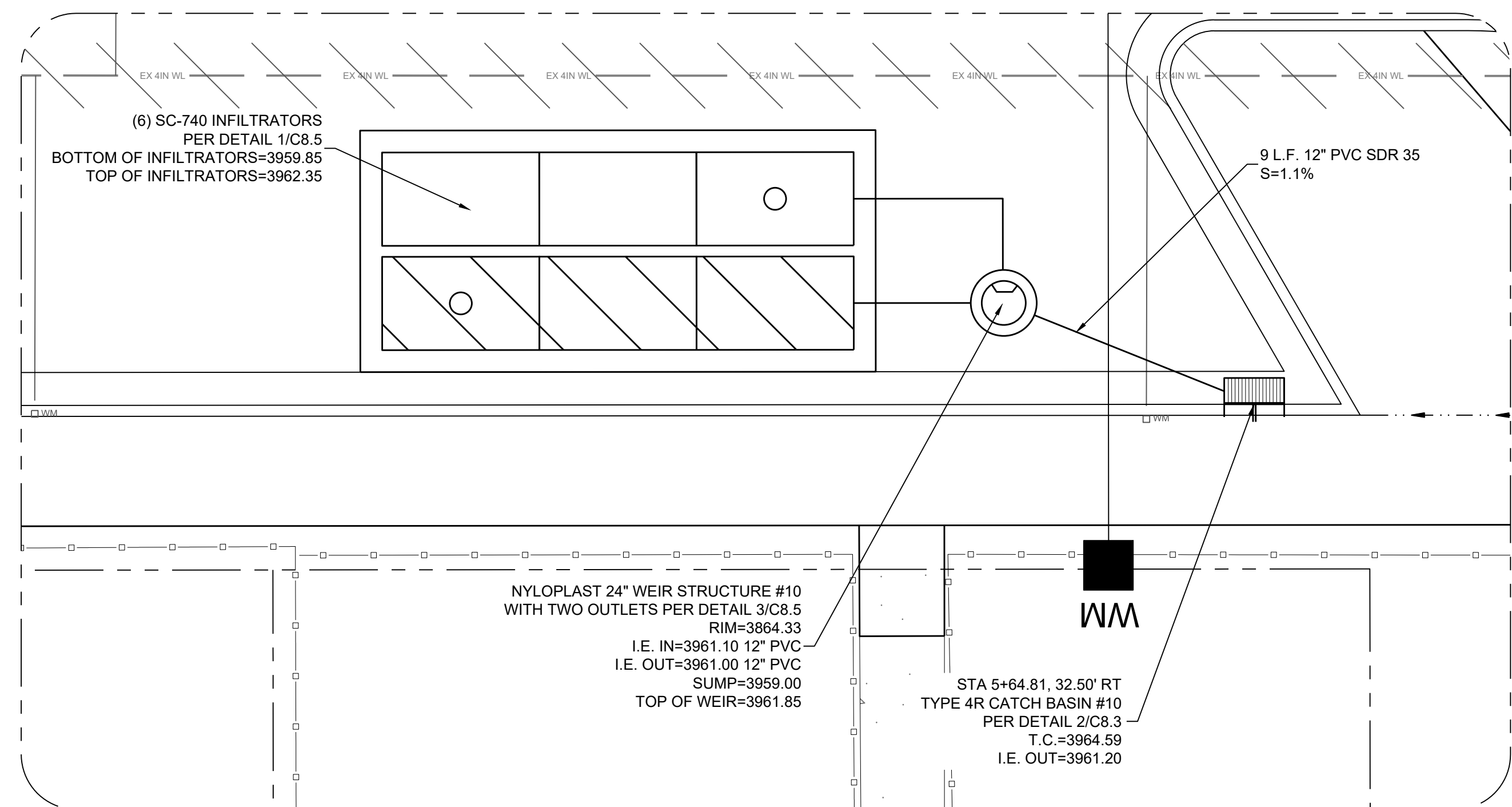
**ENLARGED VIEW #1**



**ENLARGED VIEW #2**



**ENLARGED VIEW #3**



**ENLARGED VIEW #4**

**SHEET NOTES:**

- INFILTRATION CHAMBERS MAY BE FIELD FIT BY THE CONTRACTOR. ORIENTATION CAN BE ADJUSTED BASED UPON EXISTING UTILITIES. ELEVATIONS MAY BE ADJUSTED PER LOCATION OF SAND LAYER OR INFILTRATION.



REV	DATE	DESCRIPTION

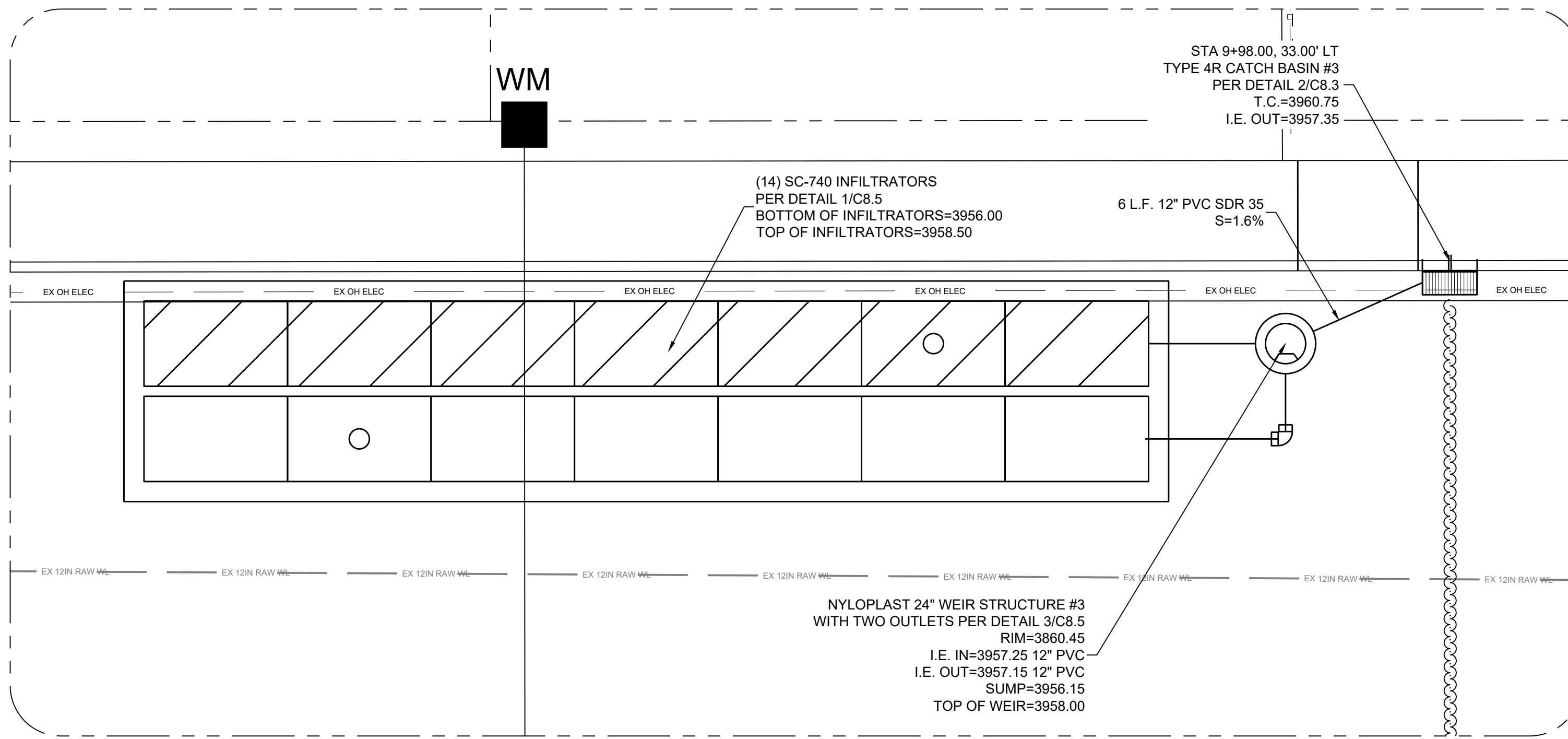
BY: \_\_\_\_\_

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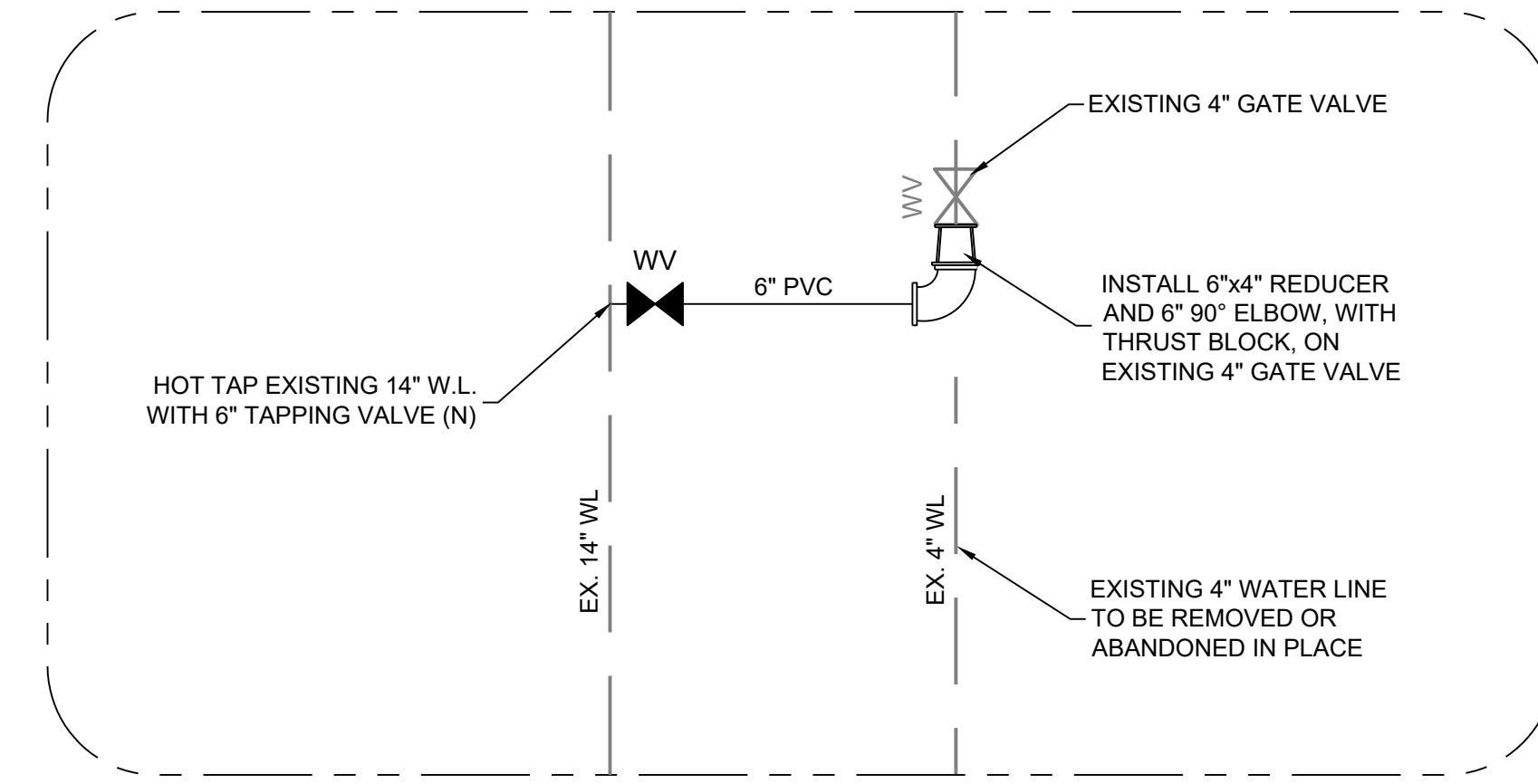
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**C4.4**

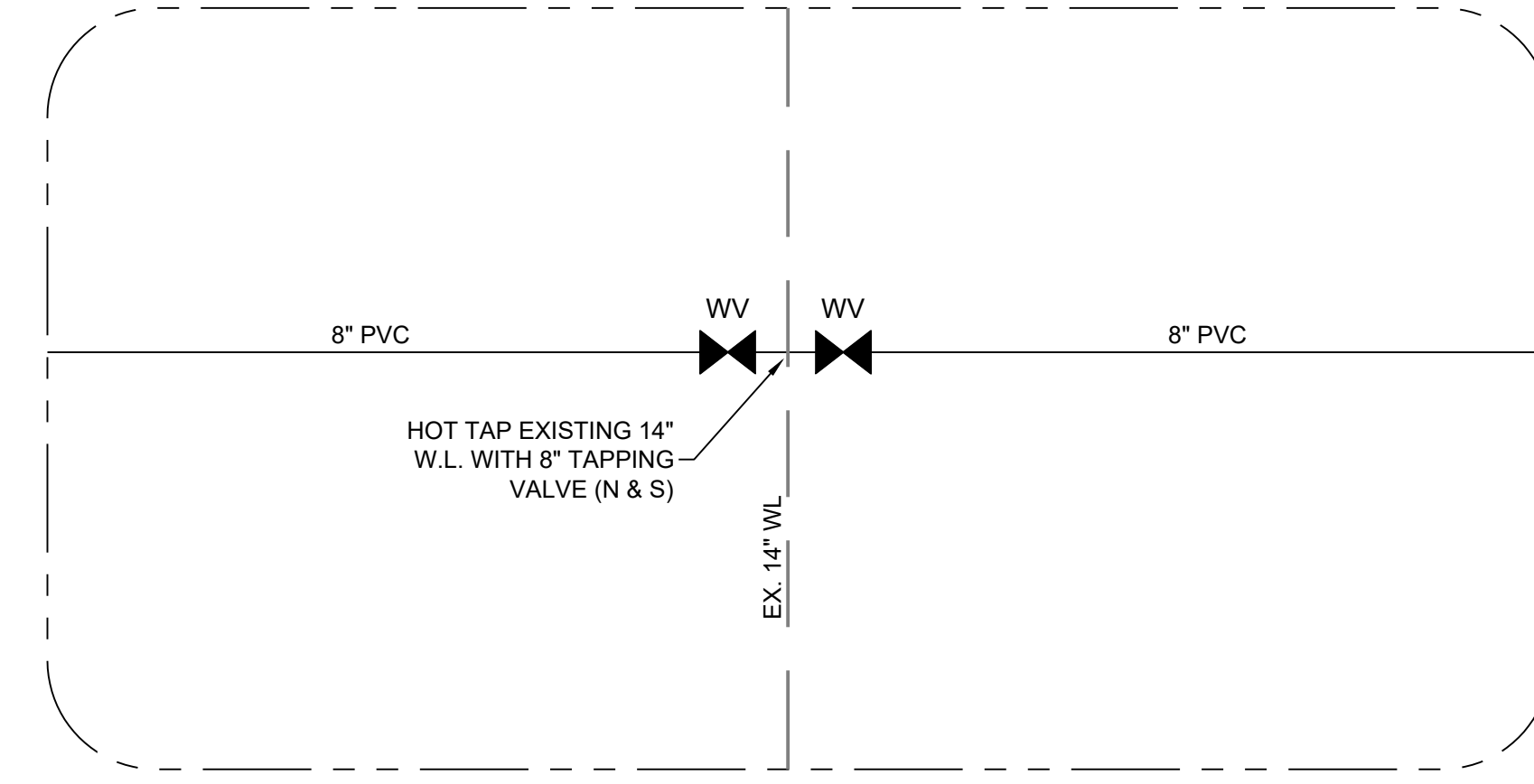
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DESIGNED BY: RHH  
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**ENLARGED VIEW #1**



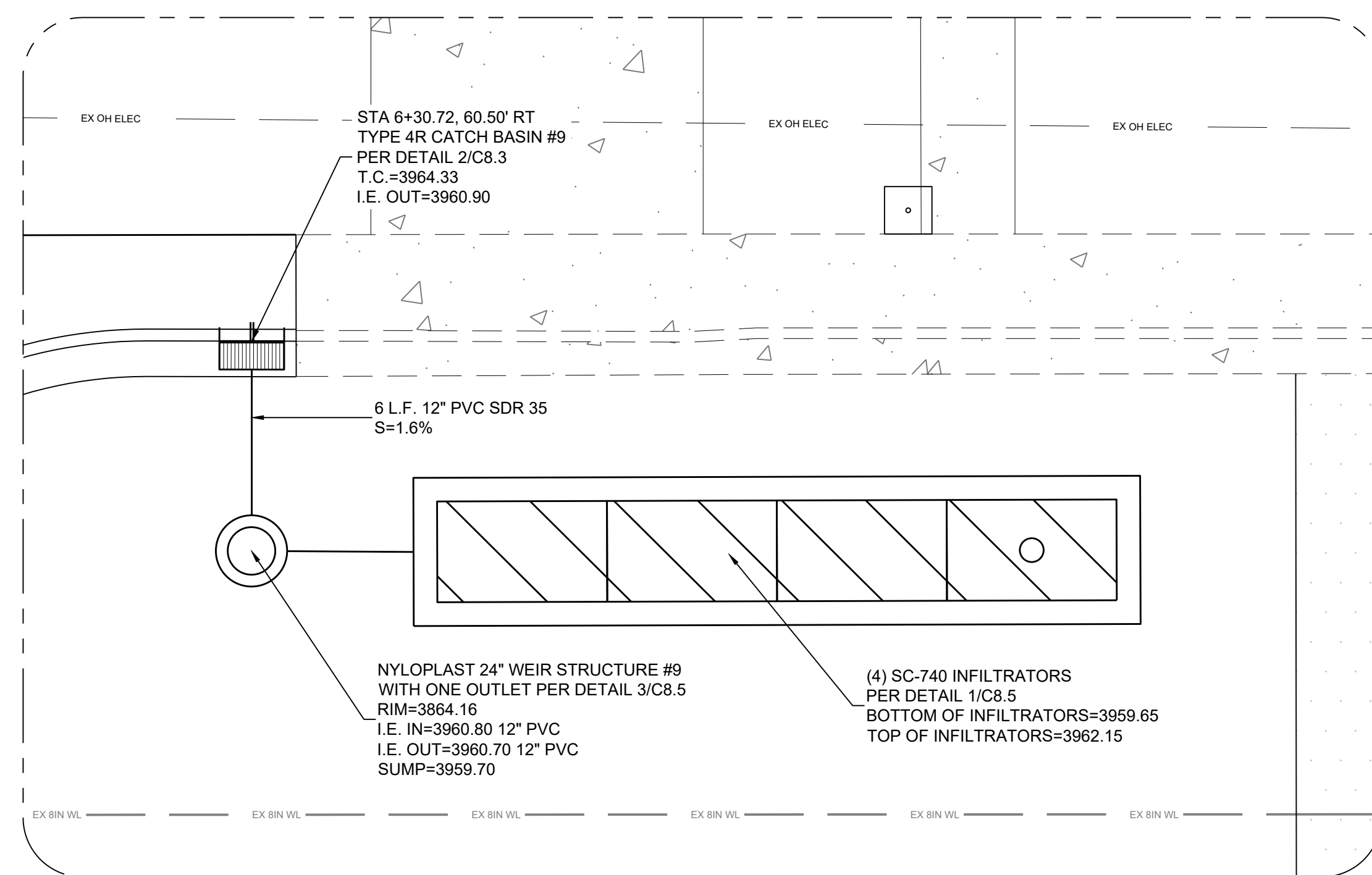
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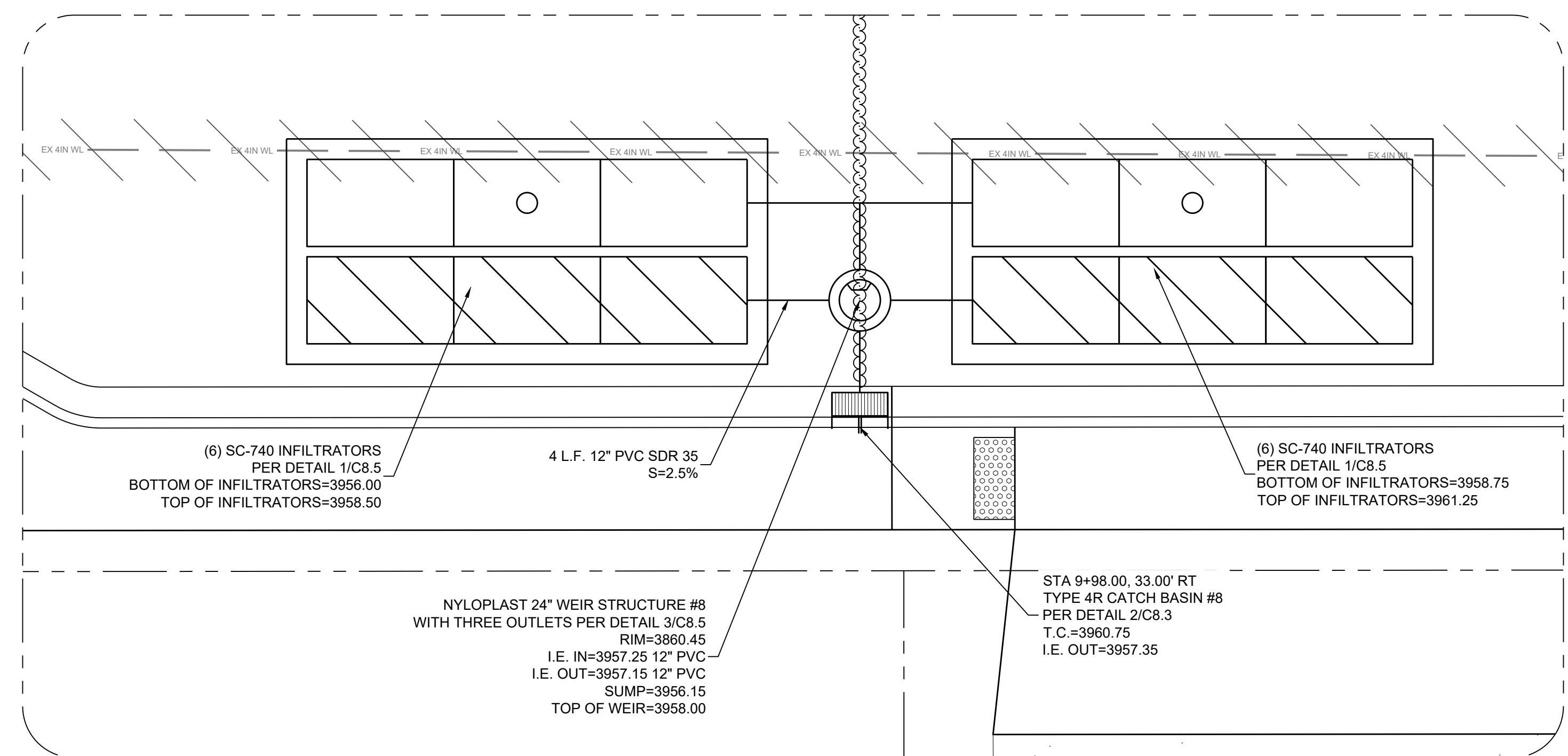
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**SHEET NOTES:**

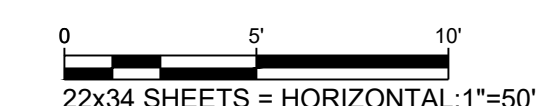
1. INFILTRATION CHAMBERS MAY BE FIELD FIT BY THE CONTRACTOR. ORIENTATION CAN BE ADJUSTED BASED UPON EXISTING UTILITIES. ELEVATIONS MAY BE ADJUSTED PER LOCATION OF SAND LAYER OR INFILTRATION.



**ENLARGED VIEW #4**

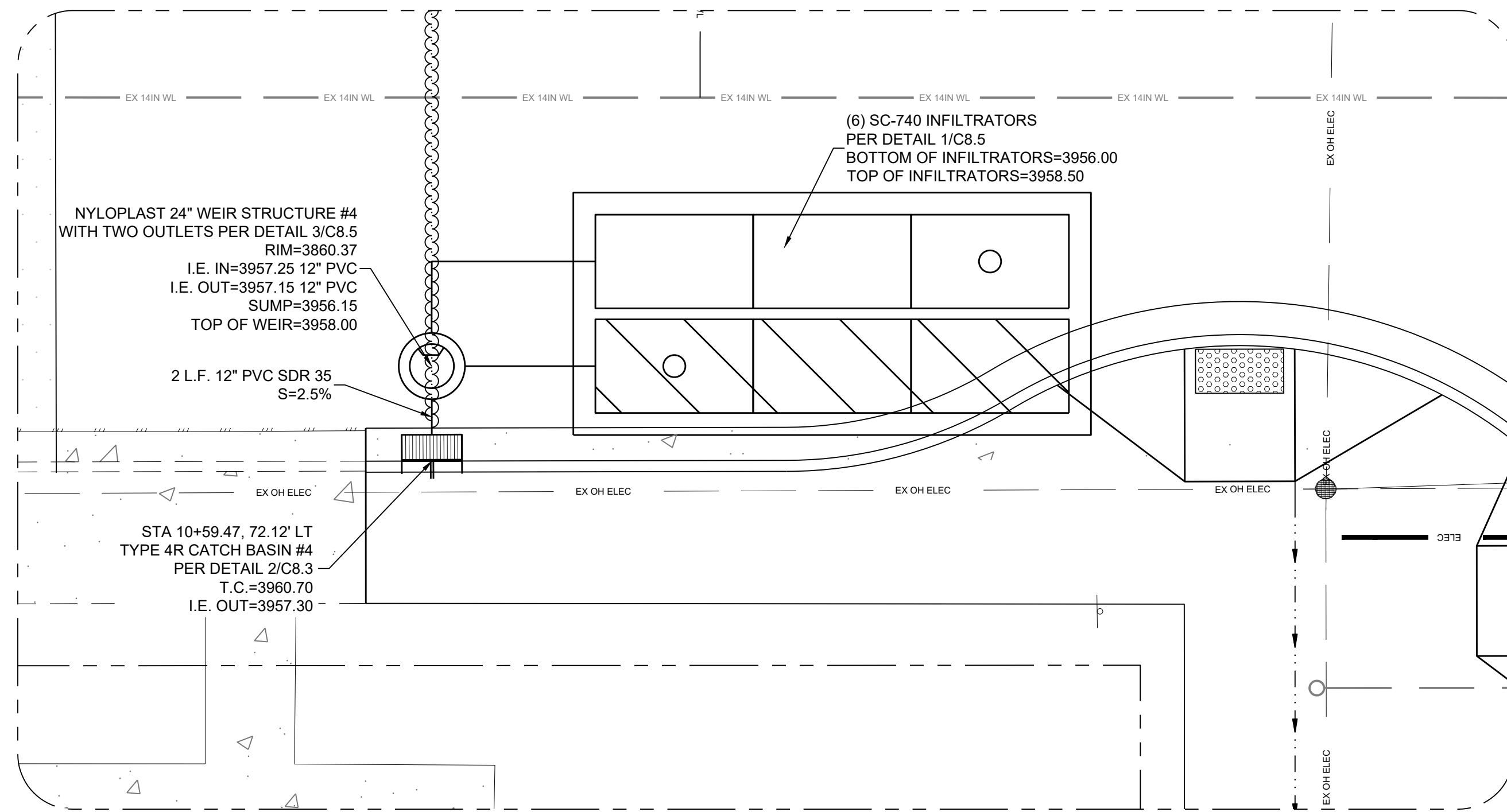


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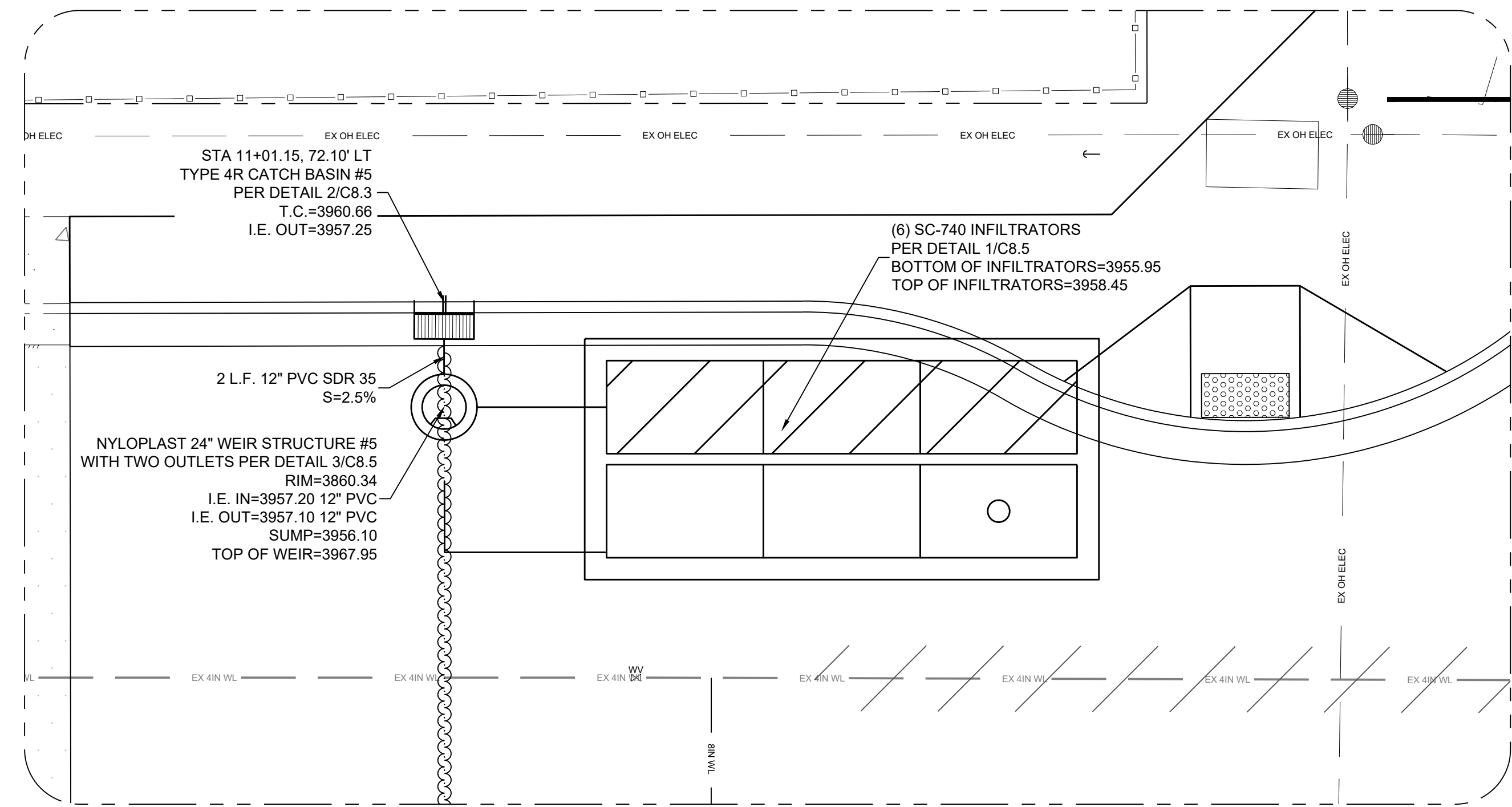




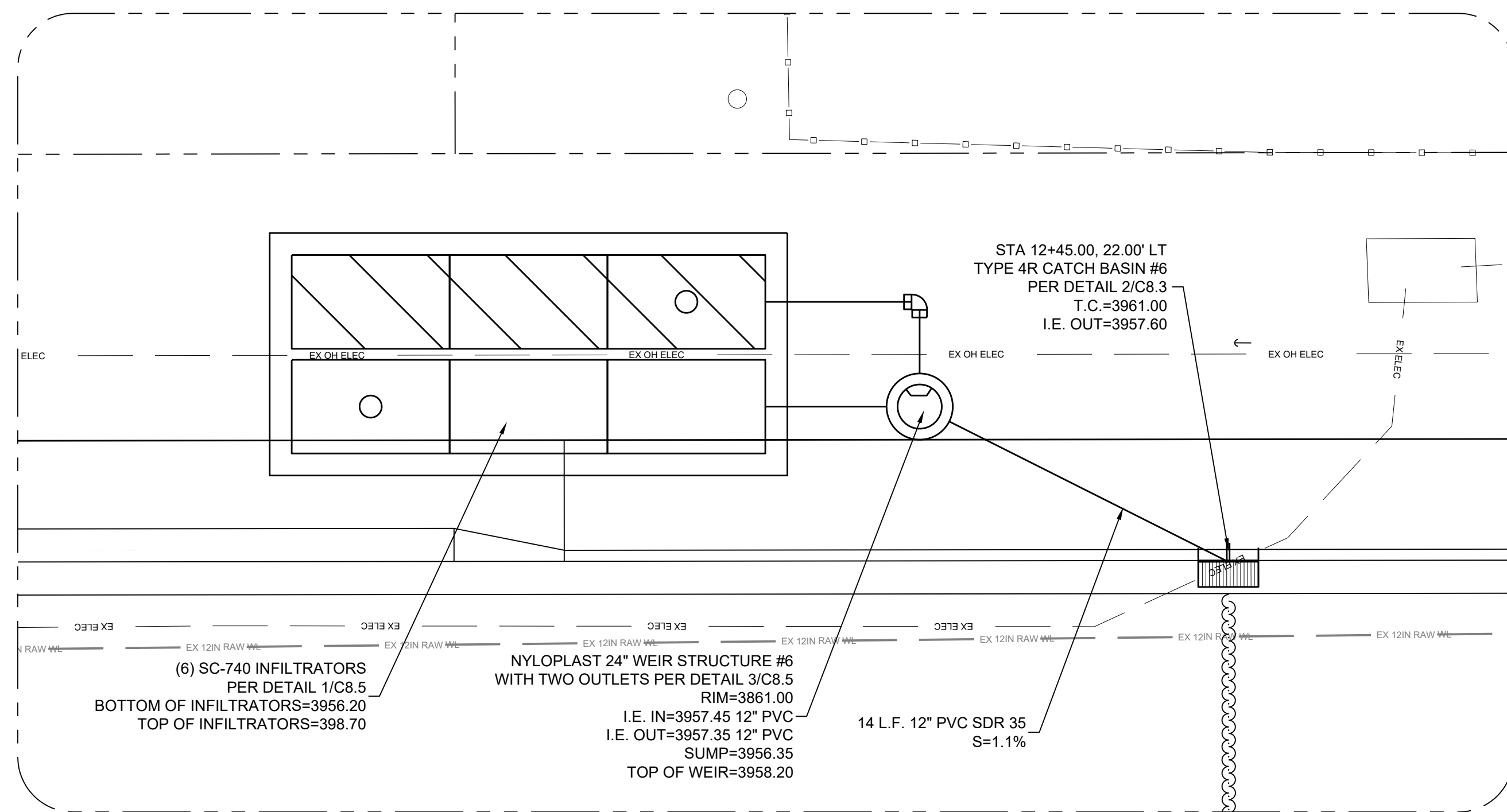
CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY  
 STREET REHABILITATION  
 UTILITY ENLARGED VIEWS**  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA



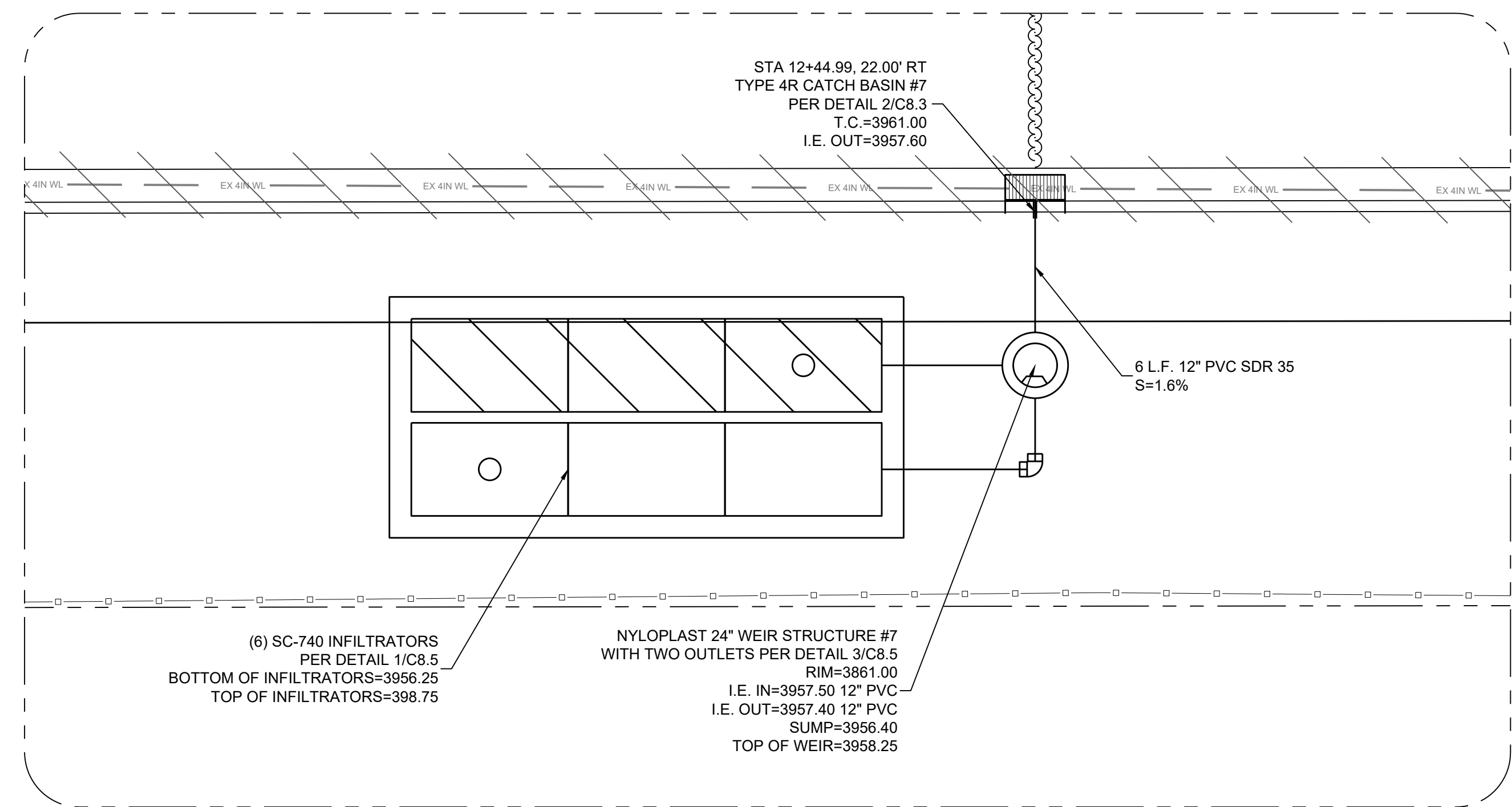
**ENLARGED VIEW #1**



**ENLARGED VIEW #2**



**ENLARGED VIEW #3**



**ENLARGED VIEW #4**

**SHEET NOTES:**

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REV.	DATE	DESCRIPTION	BY

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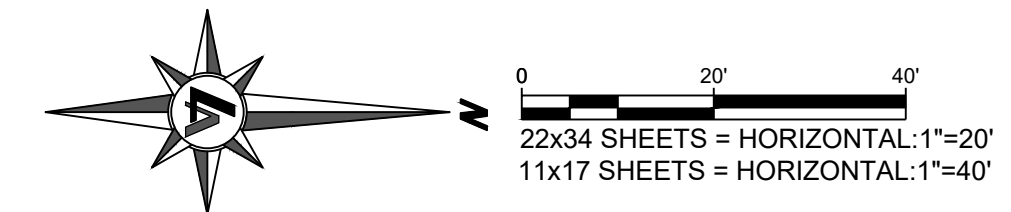
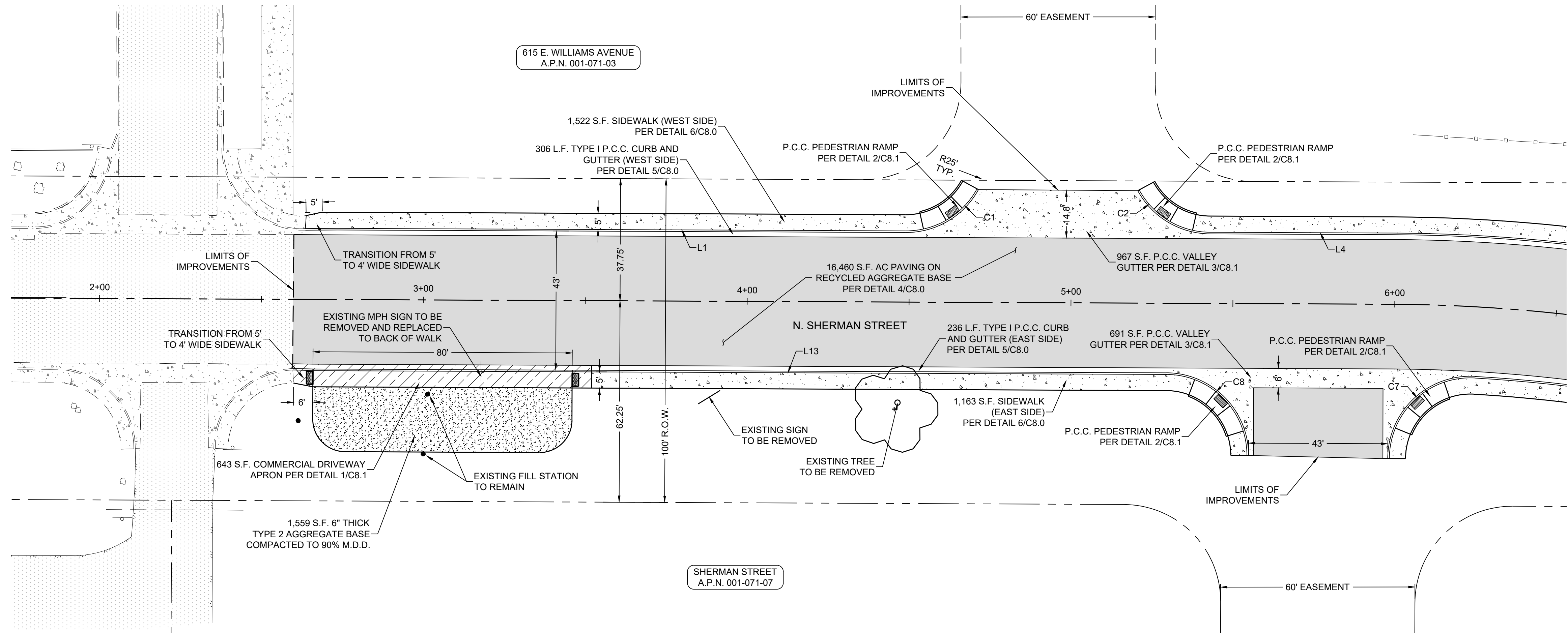


22x34 SHEETS = HORIZONTAL: 1"=50'



**SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
SURFACE IMPROVEMENT PLAN**

CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA



**SURFACE IMPROVEMENT LEGEND**

ROADWAY RECONSTRUCTION	[Pattern]
CURB & GUTTER	[Pattern]
PCC SIDEWALK	[Pattern]
PCC DRIVEWAY APRON	[Pattern]
AGGREGATE BASE	[Pattern]

REV.	DATE	DESCRIPTION	BY

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C5.0

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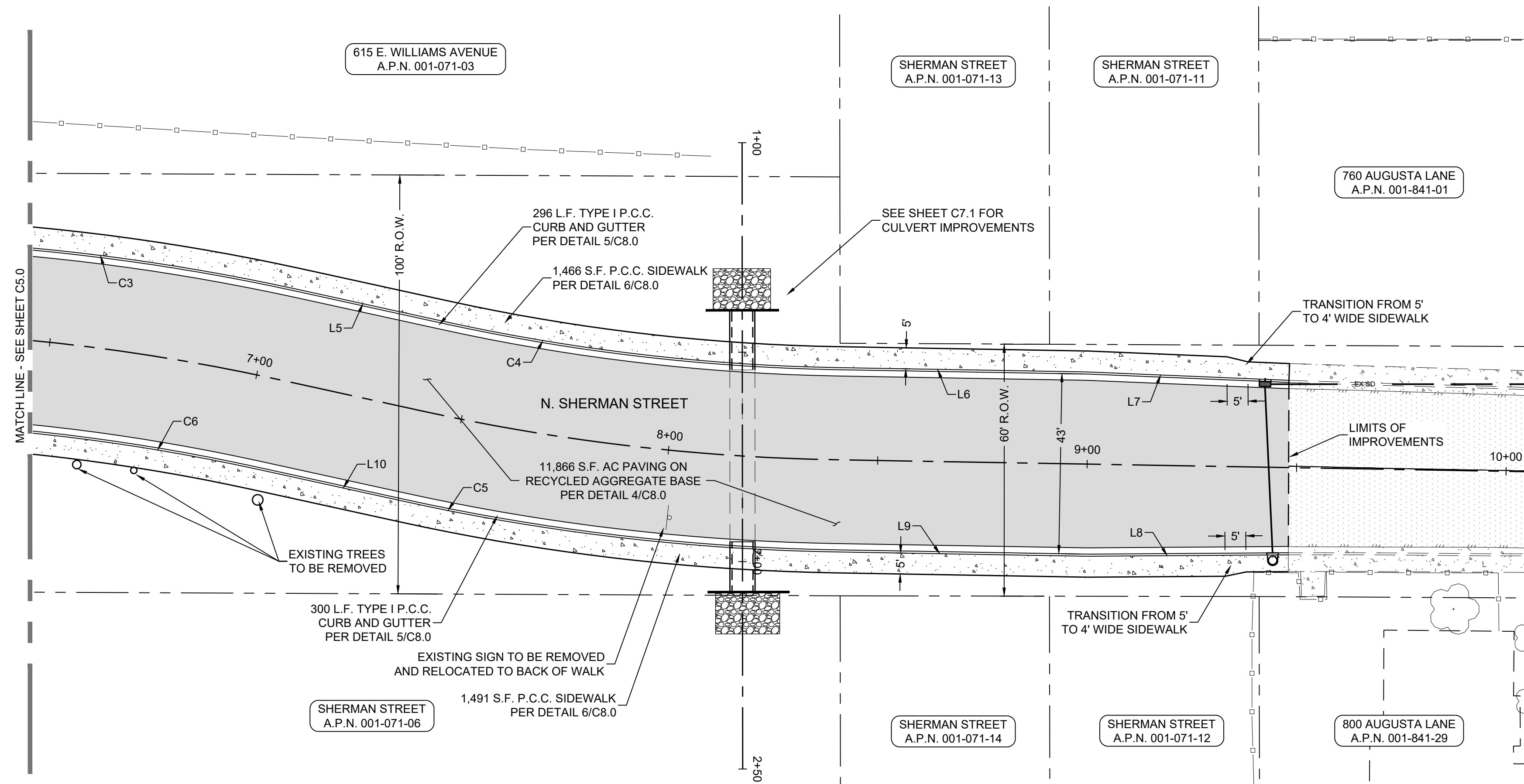
**TYPE I CURB AND GUTTER LINE TABLE**

LINE #	LENGTH	DIRECTION
L1	175.38	N0° 15' 21.00"E
L4	56.37	S0° 15' 21.00"W
L13	263.55	N0° 15' 21.00"E

**TYPE I CURB AND GUTTER CURVE TABLE**

CURVE #	LENGTH	RADIUS	DELTA
C1	26.86	25.00	61.57
C2	26.74	25.00	61.27
C7	40.67	25.00	93.20
C8	39.22	25.00	89.88

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**SURFACE IMPROVEMENT LEGEND**

ROADWAY RECONSTRUCTION	
CURB & GUTTER	
PCC SIDEWALK	
PCC DRIVEWAY APRON	



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SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
SURFACE IMPROVEMENT PLAN  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

REV.	DATE	DESCRIPTION	BY

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**C5.1**

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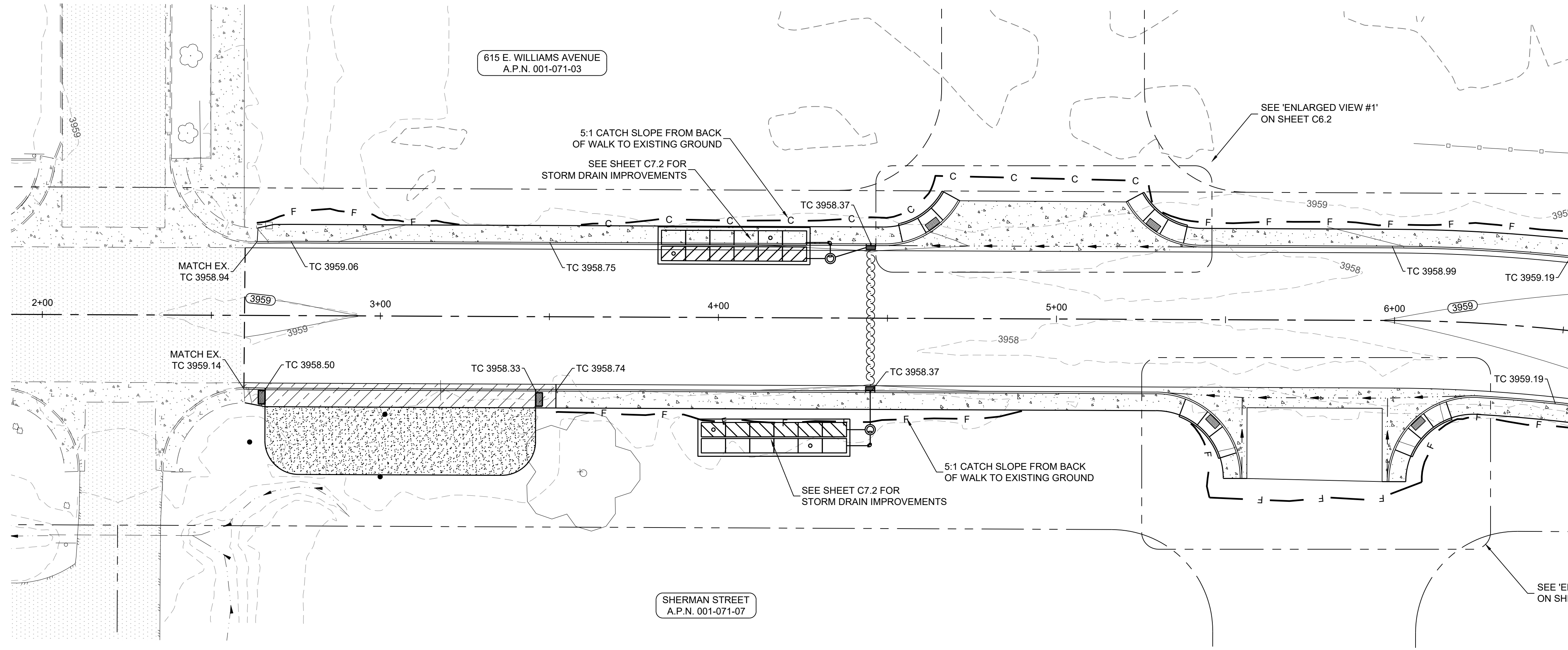
**TYPE I CURB AND GUTTER LINE TABLE**

LINE #	LENGTH	DIRECTION
L5	36.31	S12° 21' 15.51"W
L6	59.50	S0° 59' 25.77"W
L7	48.09	S2° 23' 24.81"W
L8	47.98	S0° 24' 08.52"E
L9	60.17	S0° 59' 25.77"W
L10	36.31	S12° 21' 15.51"W

**TYPE I CURB AND GUTTER CURVE TABLE**

CURVE #	LENGTH	RADIUS	DELTA
C3	110.22	522.00	12.10
C4	94.80	478.00	11.36
C5	103.53	522.00	11.36
C6	75.24	478.00	9.02

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- NOTES:
- PROPOSED ROADWAY CROWN VARIES SLIGHTLY FROM EXISTING GRADE. ON OCCASION, ADDITIONAL PULVERIZATION IN EXCESS OF 10" RECONSTRUCTION SECTION WILL BE REQUIRED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE REMOVAL OF EXISTING MATERIALS NECESSARY TO ACHIEVE ELEVATIONS AND GRADES NOTED ON THE IMPROVEMENT PLANS.
  - POTENTIAL SHALLOW UTILITIES AND SERVICES MAY BE ENCOUNTERED WITHIN THE ROADWAY SECTION. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATION AND DEPTH AND NOTIFY THE ENGINEER ON ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ROADWAY PULVERIZATION ACTIVITIES.
  - ADJUST EXISTING MANHOLE RIM ELEVATIONS TO MATCH FINISH GRADE.
  - CONTRACTOR TO COORDINATE WITH CITY OF FALLON PRIOR TO CONSTRUCTION TO DETERMINE WATER METERS AND SETTERS TO BE ADJUSTED.
  - THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS POSSIBLE WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING OF CONSTRUCTION.



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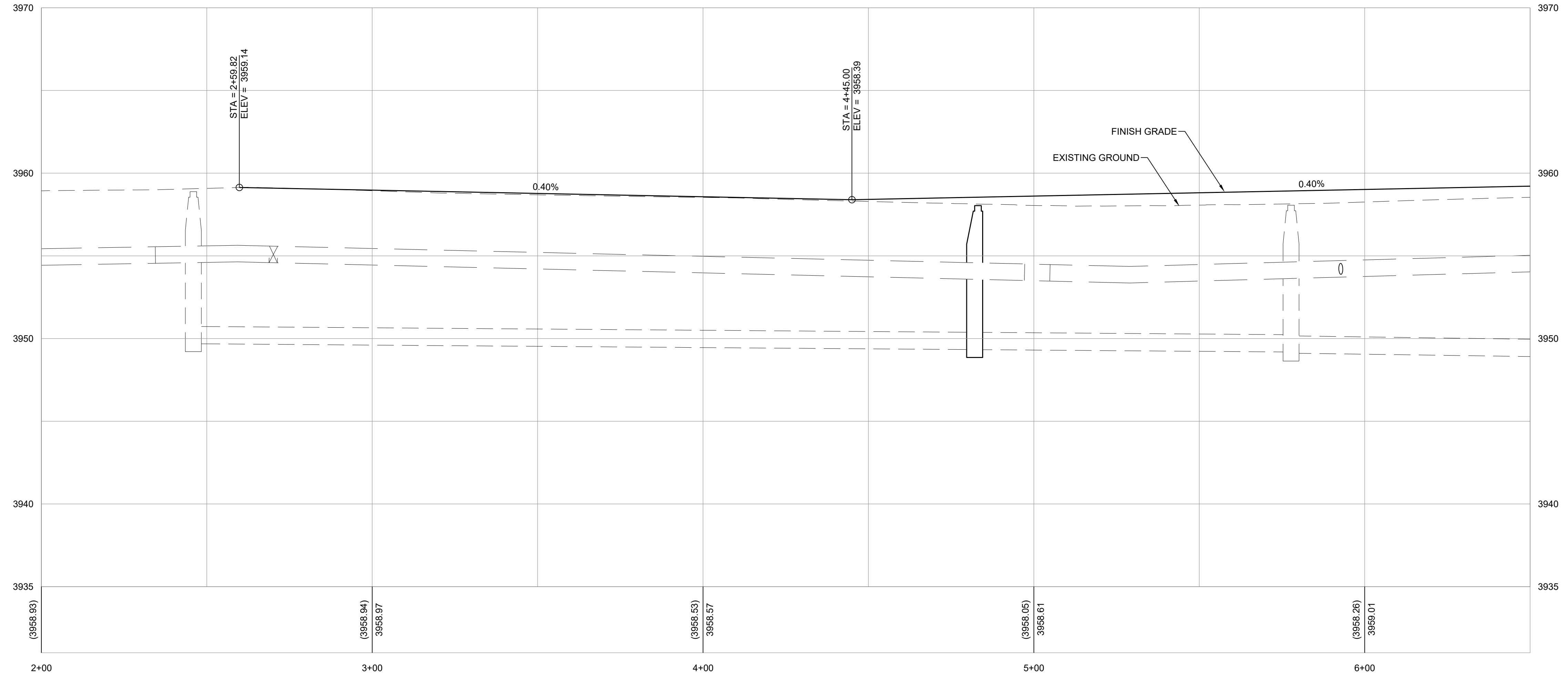
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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION GRADING PLAN**  
NEVADA  
CITY OF FALLON  
CHURCHILL COUNTY



SHERMAN STREET - STA:2+00 TO STA:6+50



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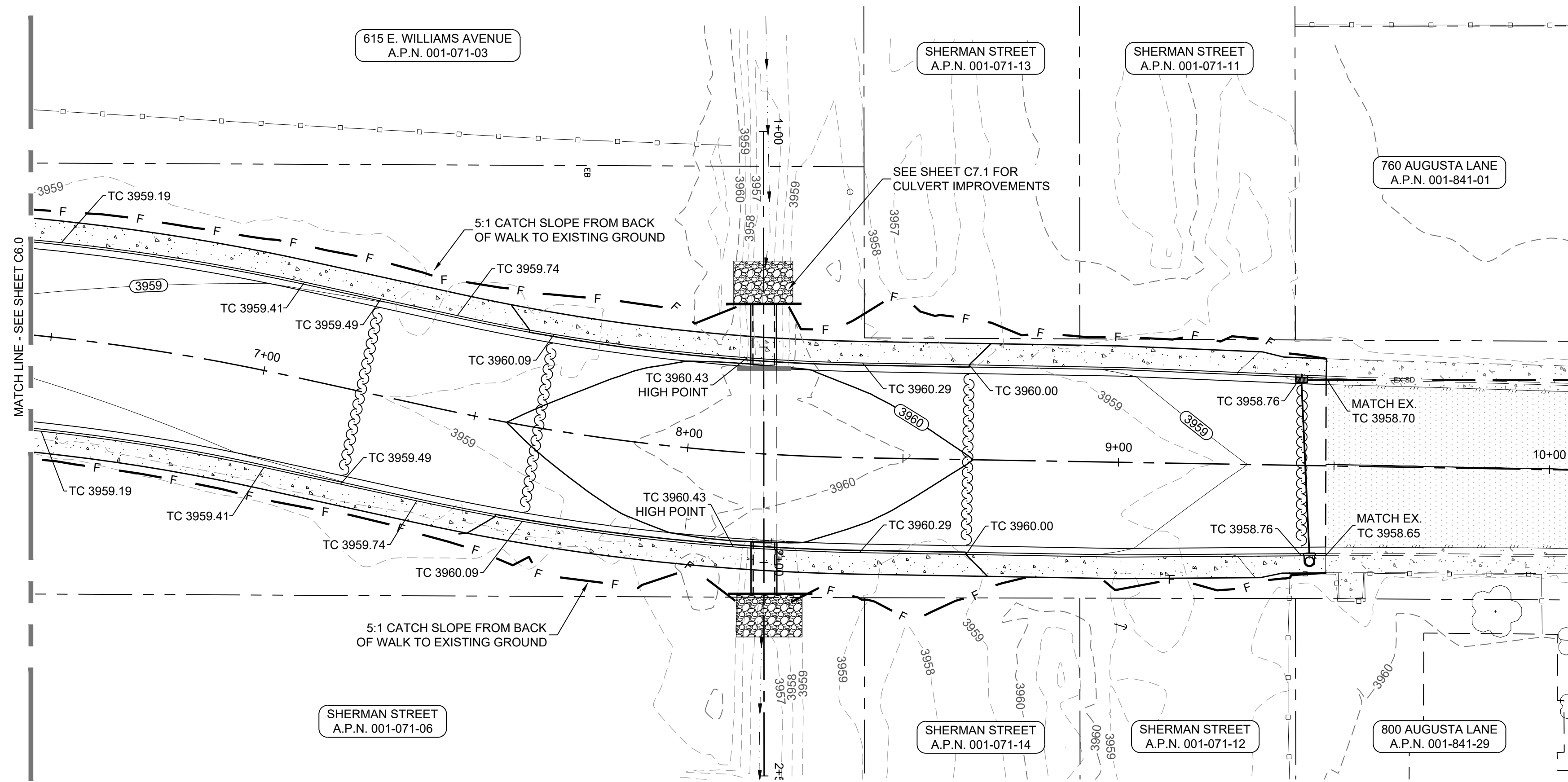
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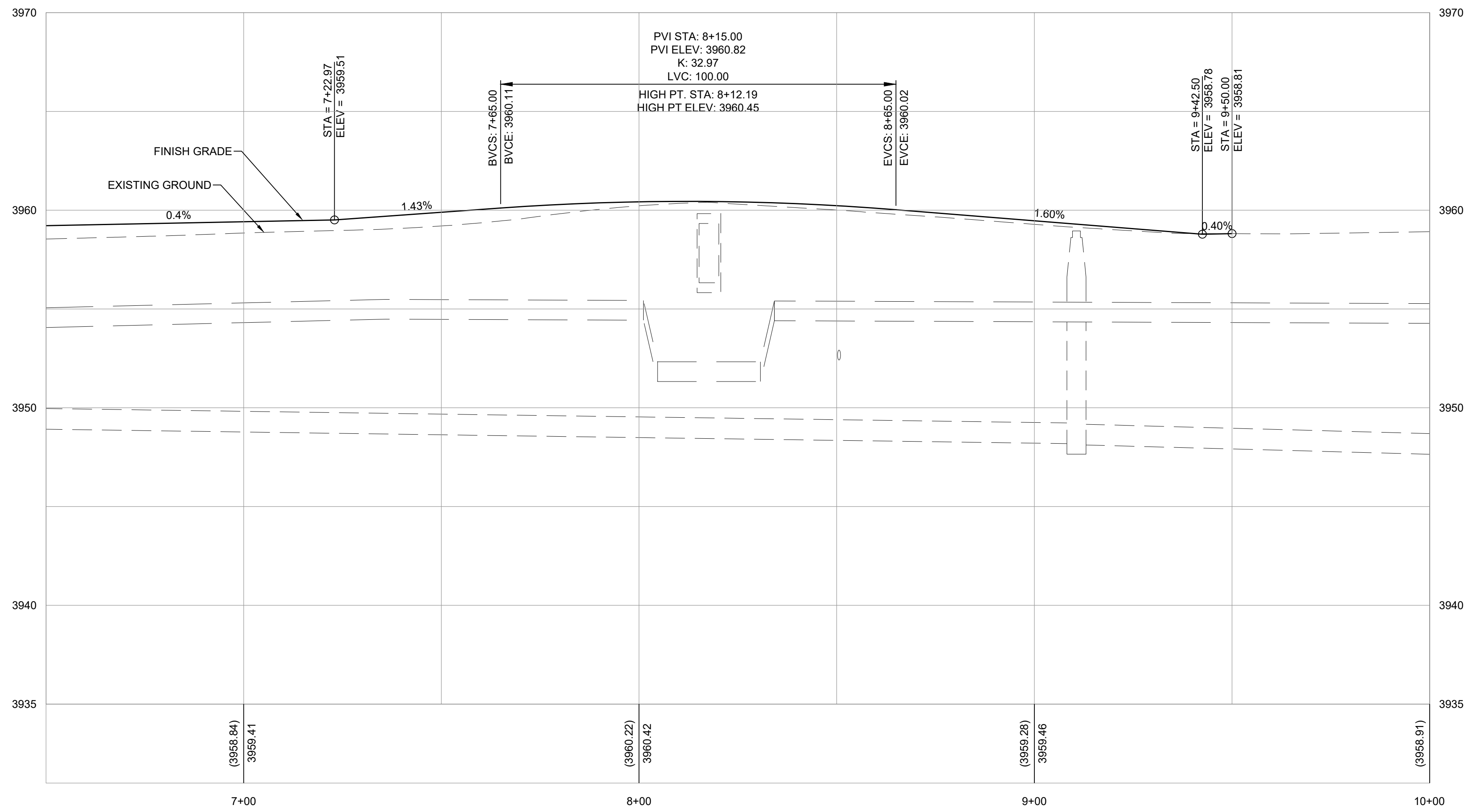
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DESIGNED BY: RHH  
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JOB NO.: 10514.000

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SHERMAN STREET - STA:6+50 TO STA:10+00



GRADING NOTES:

1. PROPOSED ROADWAY CROWN VARIES SLIGHTLY FROM EXISTING GRADE. ON OCCASION, ADDITIONAL PULVERIZATION IN EXCESS OF 10" RECONSTRUCTION SECTION WILL BE REQUIRED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE REMOVAL OF EXISTING MATERIALS NECESSARY TO ACHIEVE ELEVATIONS AND GRADES NOTED ON THE IMPROVEMENT PLANS.
2. POTENTIAL SHALLOW UTILITIES AND SERVICES MAY BE ENCOUNTERED WITHIN THE ROADWAY SECTION. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATION AND DEPTH AND NOTIFY THE ENGINEER ON ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ROADWAY PULVERIZATION ACTIVITIES.
3. ADJUST EXISTING MANHOLE RIM ELEVATIONS TO MATCH FINISH GRADE.
4. CONTRACTOR TO COORDINATE WITH CITY OF FALLON PRIOR TO CONSTRUCTION TO DETERMINE WATER METERS AND SETTERS TO BE ADJUSTED.
5. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS POSSIBLE WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING OF CONSTRUCTION.



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CITY OF FALLON  
SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
GRADING PLAN  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
ENLARGED VIEW - GRADING PLAN**  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

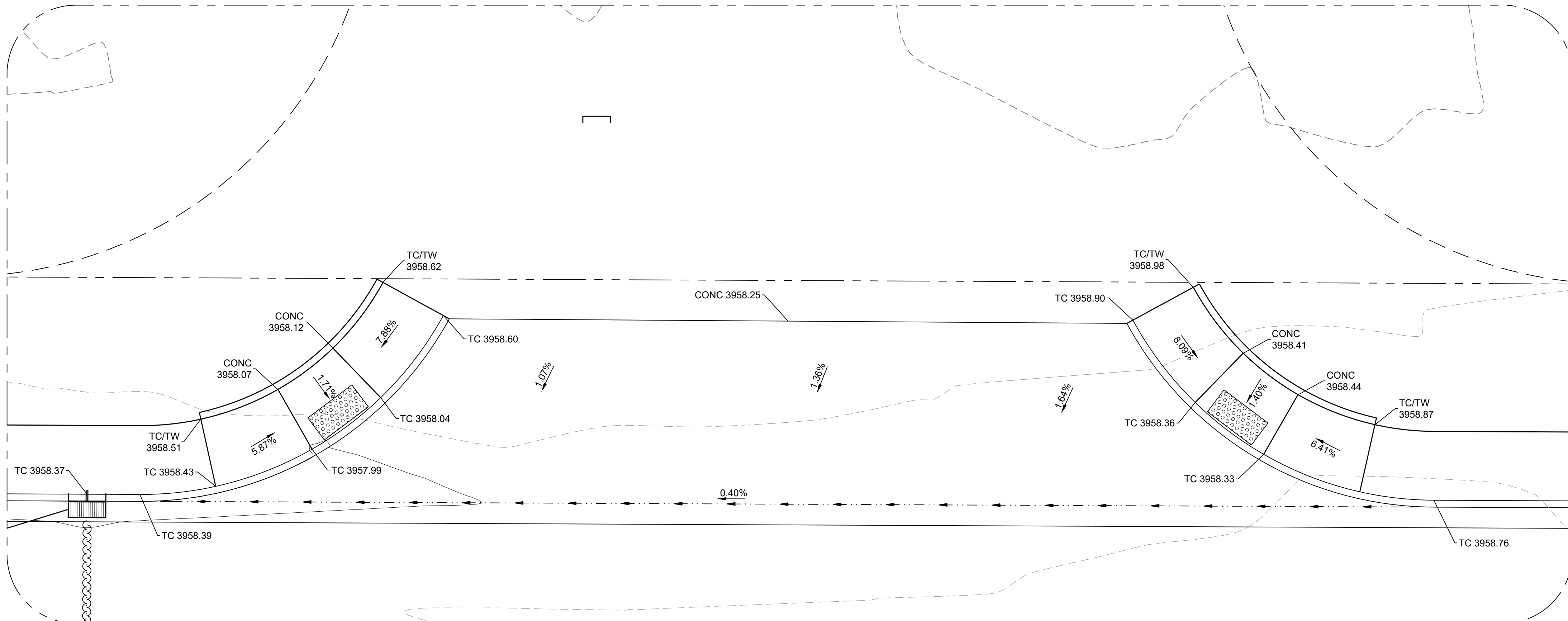
REV.	DATE	DESCRIPTION	BY

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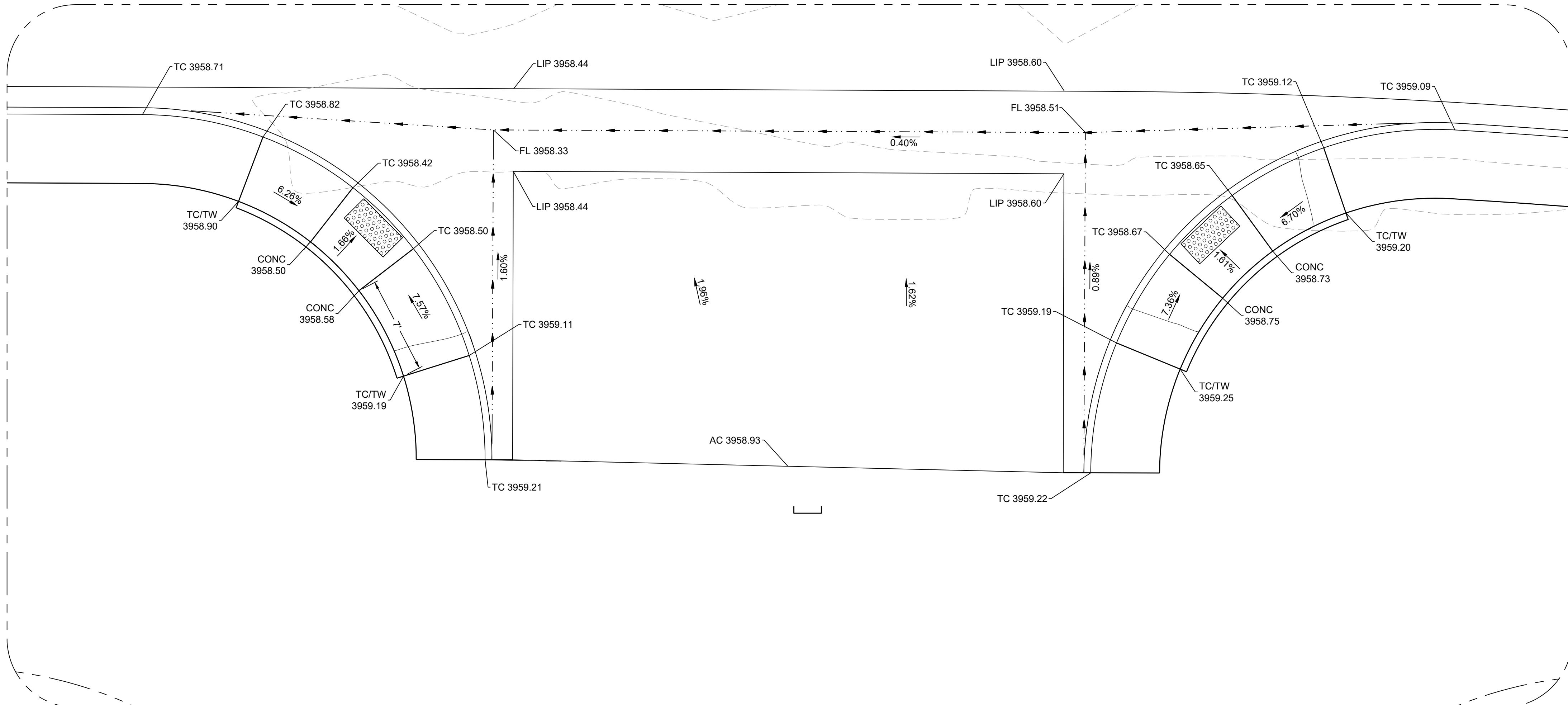
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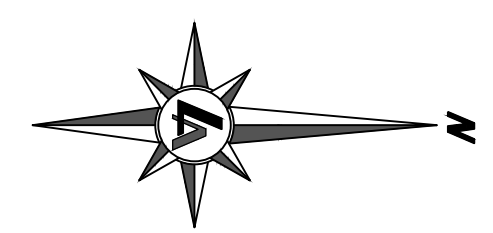


**ENLARGED VIEW #1**

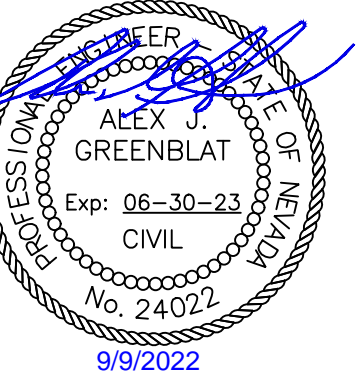
- NOTES:
1. PEDESTRIAN RAMP WING SHALL BE 6' MINIMUM LENGTH ALONG BACK OF RAMP (UNLESS NOTED ON THIS PLAN) AND NOT EXCEED 8.3%.



**ENLARGED VIEW #2**



0 5 10'  
22x34 SHEETS = HORIZONTAL: 1"=5'  
11x17 SHEETS = HORIZONTAL: 1"=10'



CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
UTILITY PLAN AND PROFILE**  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

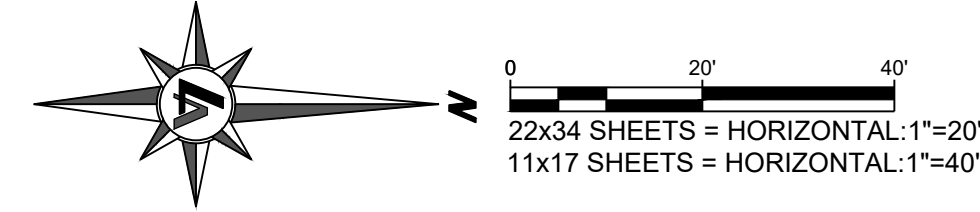
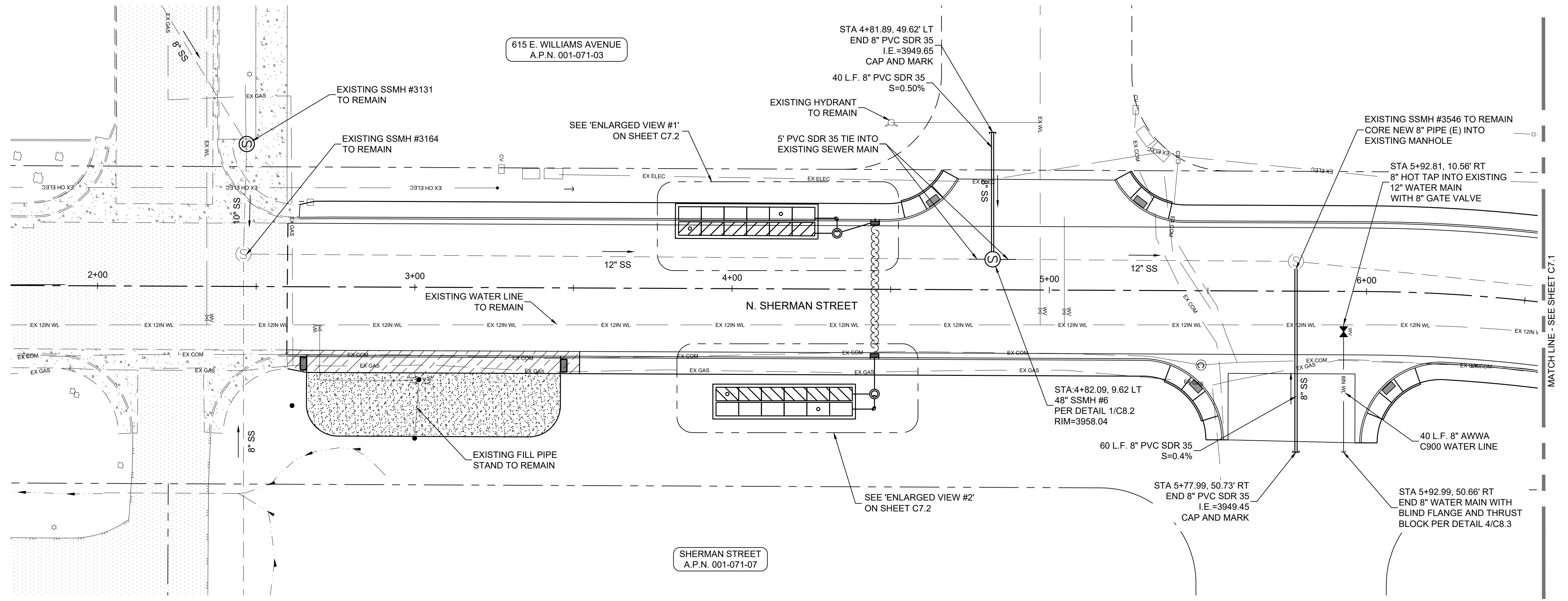
REV.	DATE	DESCRIPTION	BY

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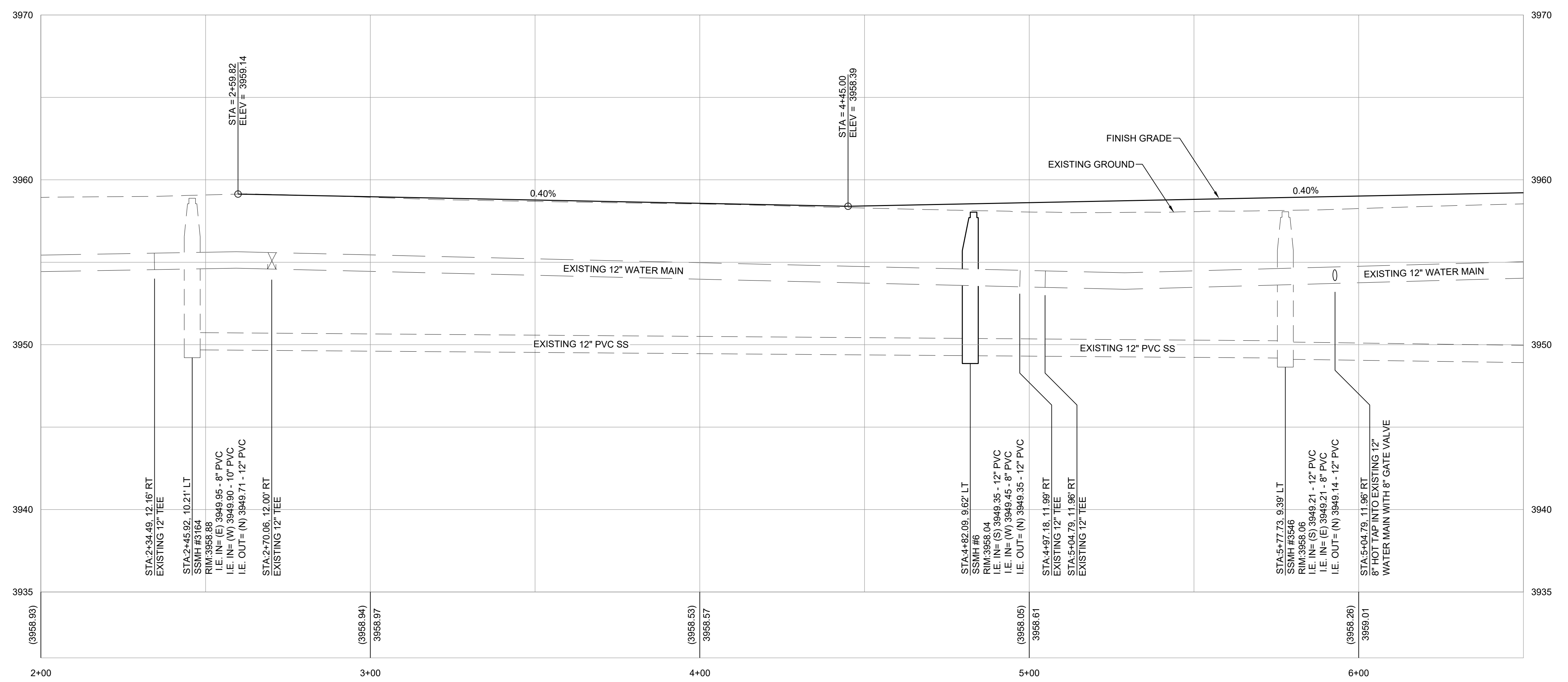
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**C7.0**

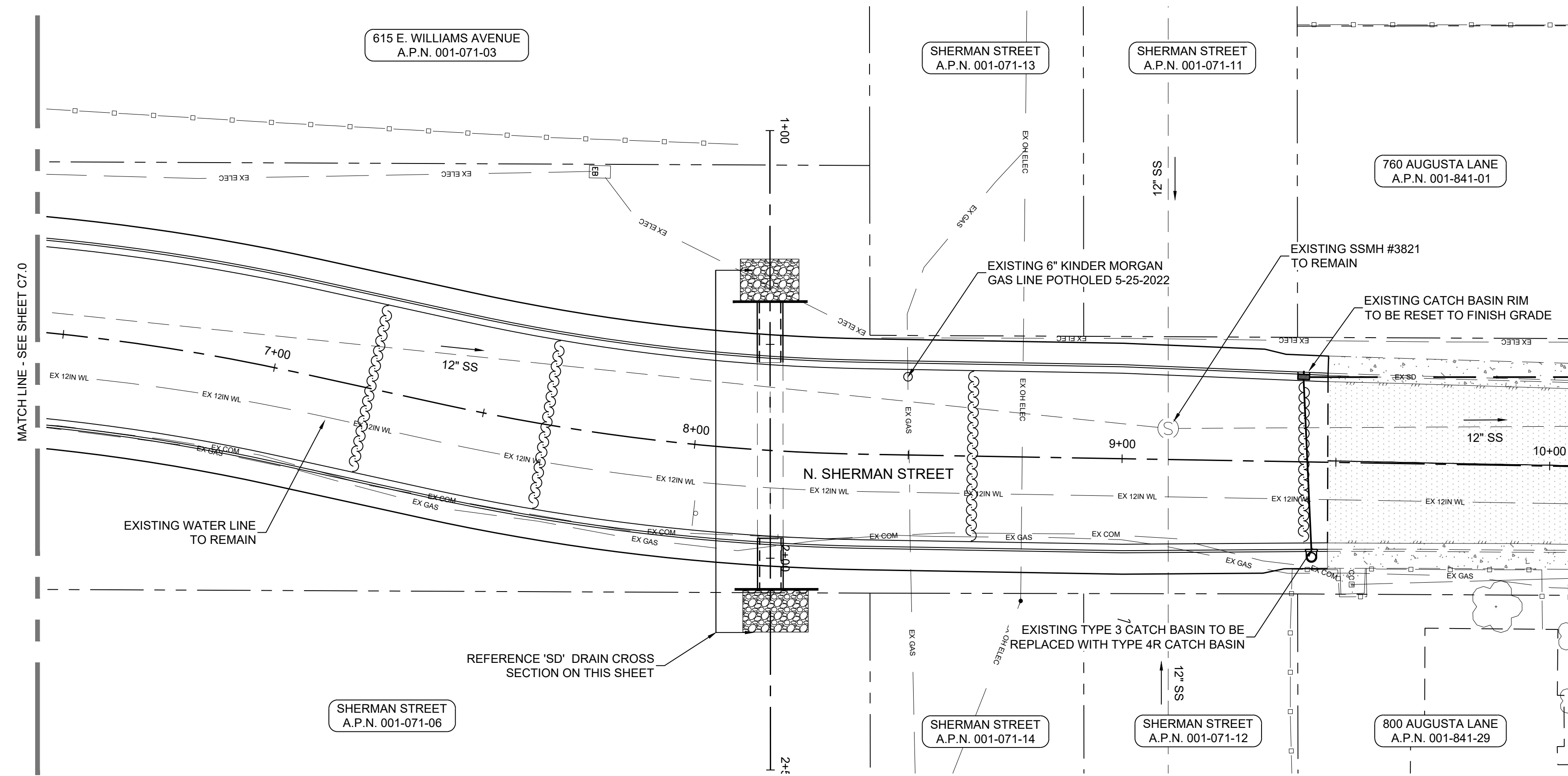
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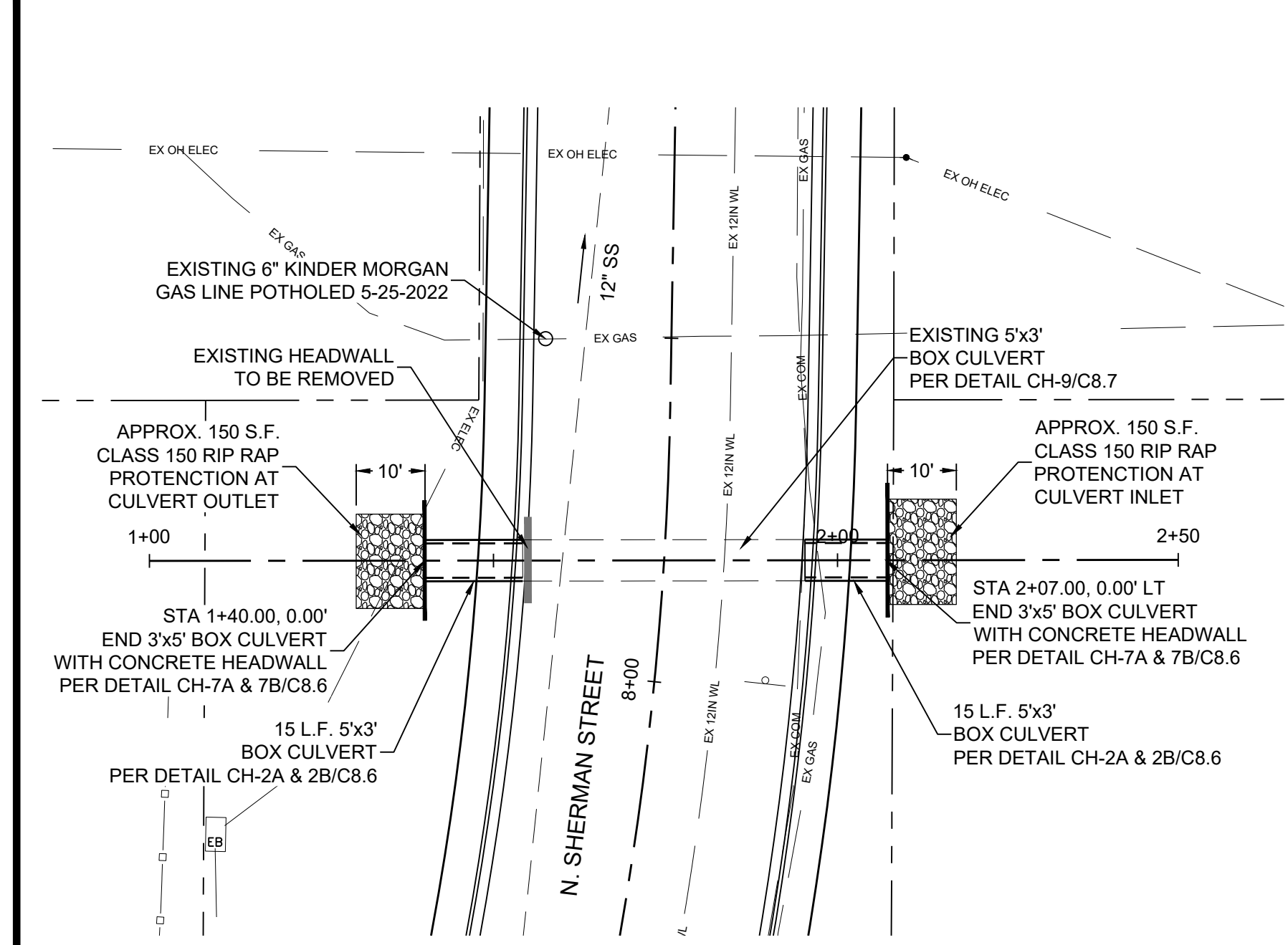
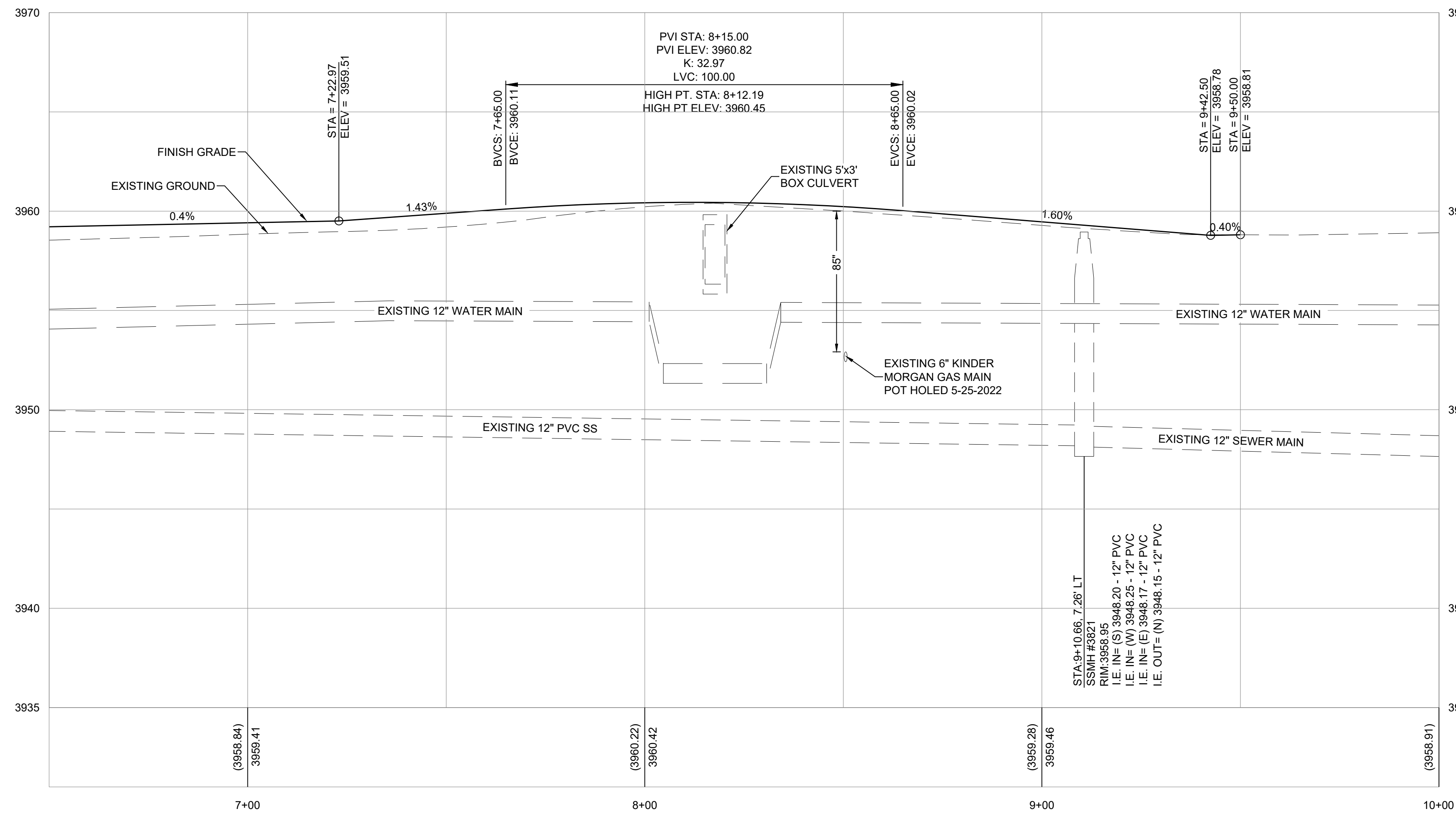
SHERMAN STREET - STA:2+00 TO STA:6+50



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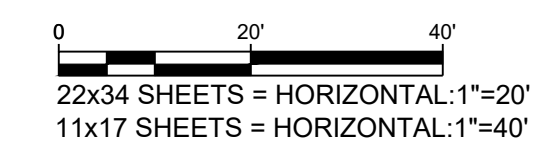


SHERMAN STREET - STA:6+50 TO STA:10+00

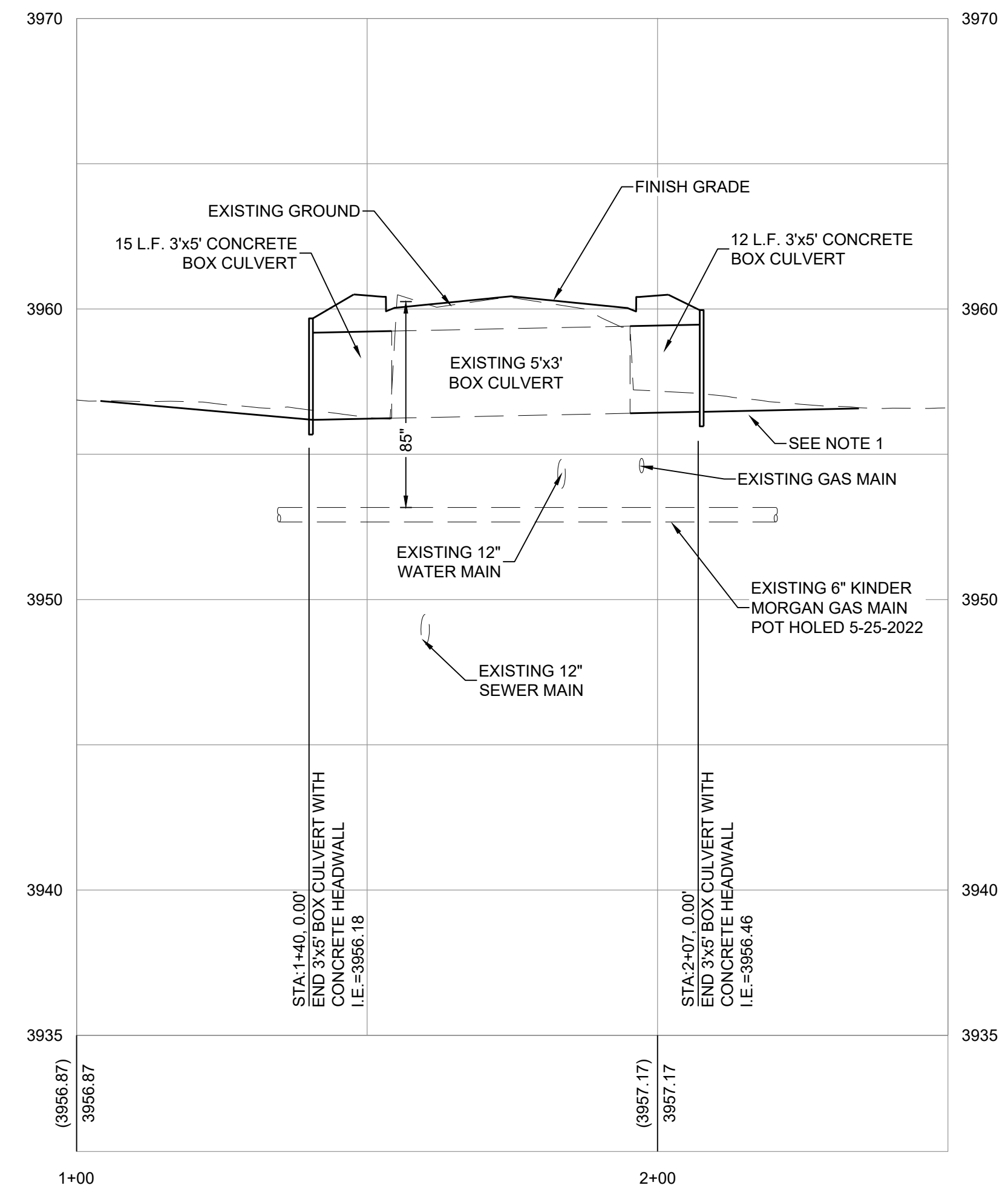


SHEET NOTES:

- CONTRACTOR TO GRADE BOTTOM OF LATERAL TO MATCH I.E. OF NEW BOX CULVERT (EACH END) PRIOR TO PLACING THE RIP RAP.



'SD' DRAIN - STA:1+00 TO STA:2+50



178 SOUTH MAIN ST.  
FALLON, NV 89406  
TEL: 775.424.2188  
WWW.LUMOSINC.COM  
INFO@LUMOSINC.COM

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SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
PLAN AND PROFILE  
NEVADA  
CHURCHILL COUNTY  
CITY OF FALLON

REV.	DATE	DESCRIPTION	BY

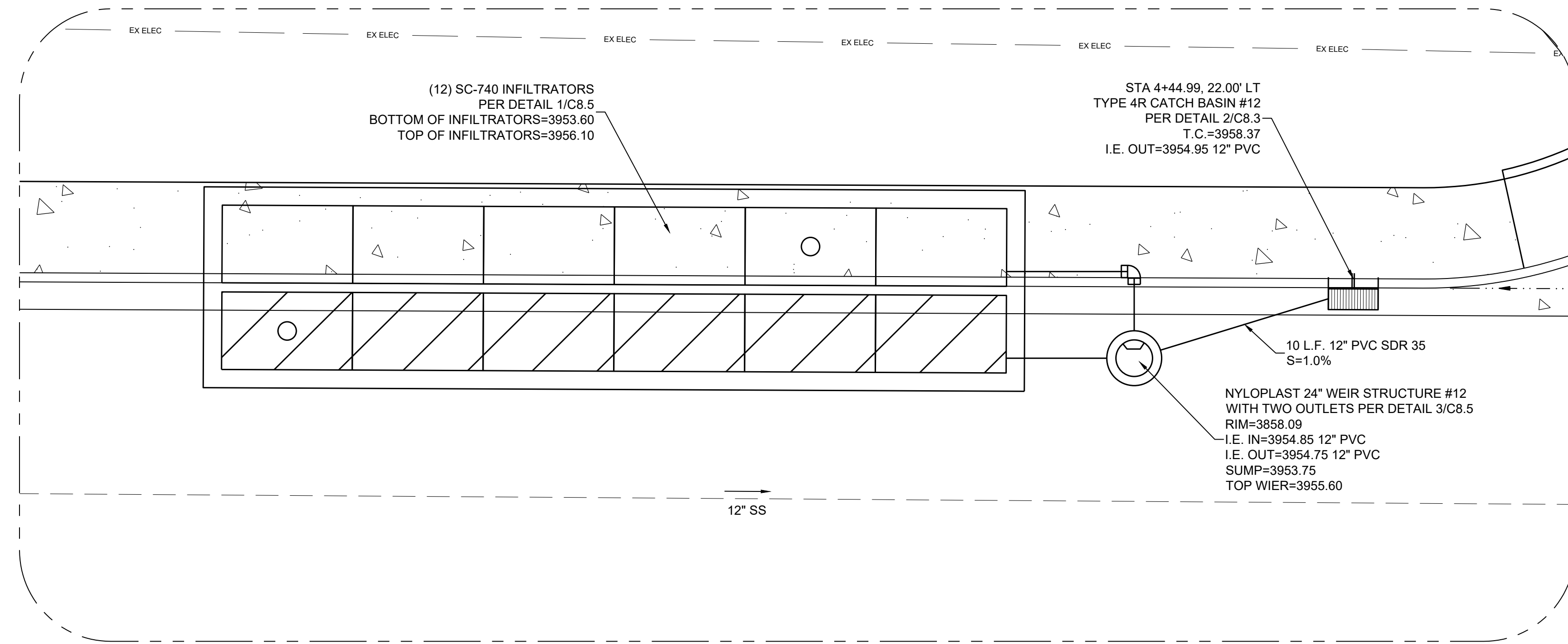
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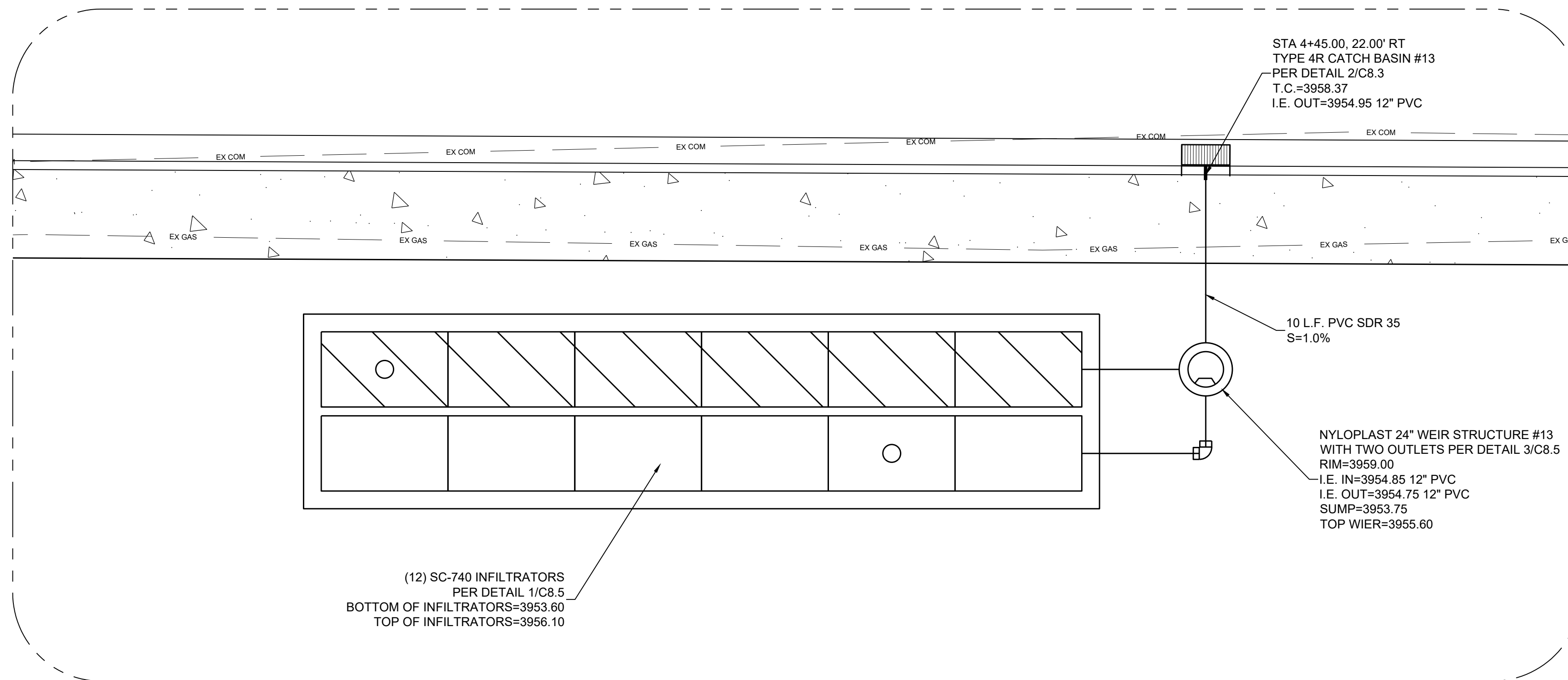
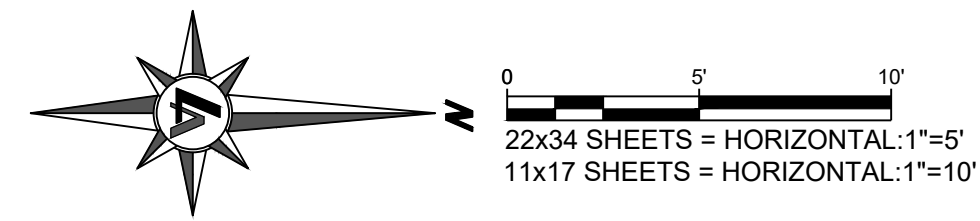
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**ENLARGED VIEW #1**

**SHEET NOTES:**

1. INFILTRATION CHAMBERS MAY BE FIELD FIT BY THE CONTRACTOR. ORIENTATION CAN BE ADJUSTED BASED UPON EXISTING UTILITIES. ELEVATIONS MAY BE ADJUSTED PER LOCATION OF SAND LAYER OR INFILTRATION.



**ENLARGED VIEW #2**

CITY OF FALLON  
 SHERMAN STREET & NORTH BROADWAY  
 STREET REHABILITATION  
 UTILITY ENLARGED VIEWS  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

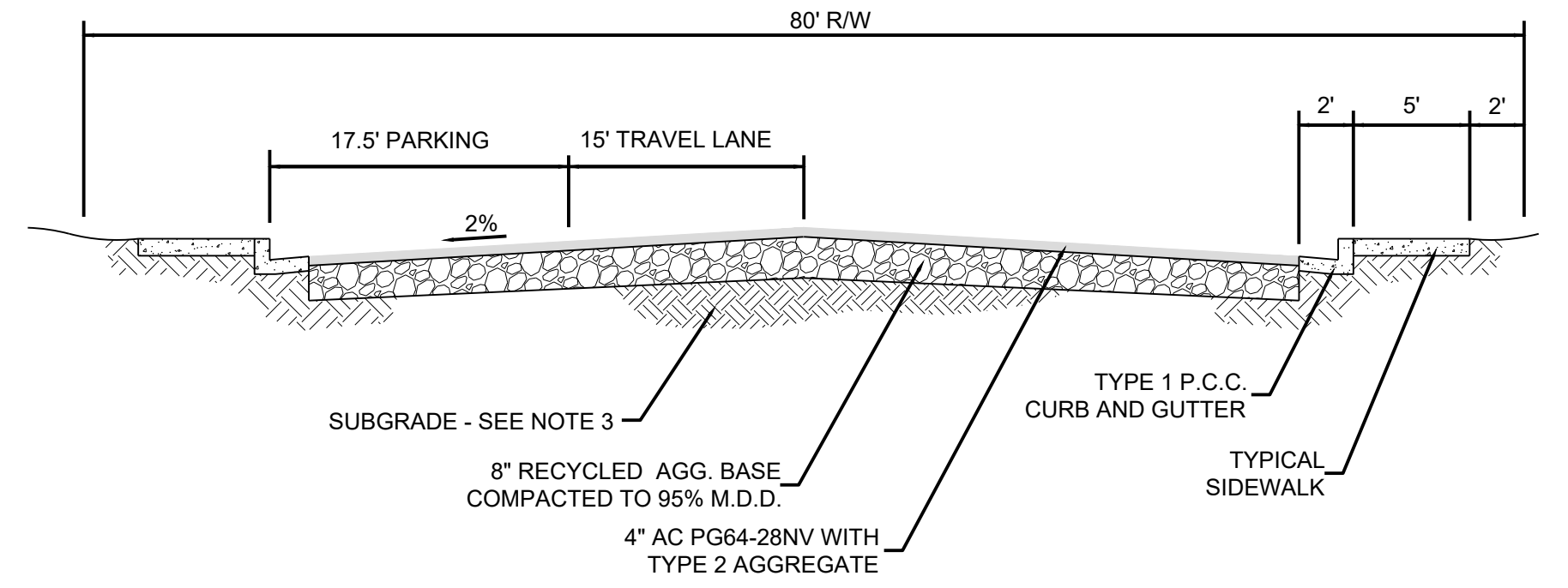
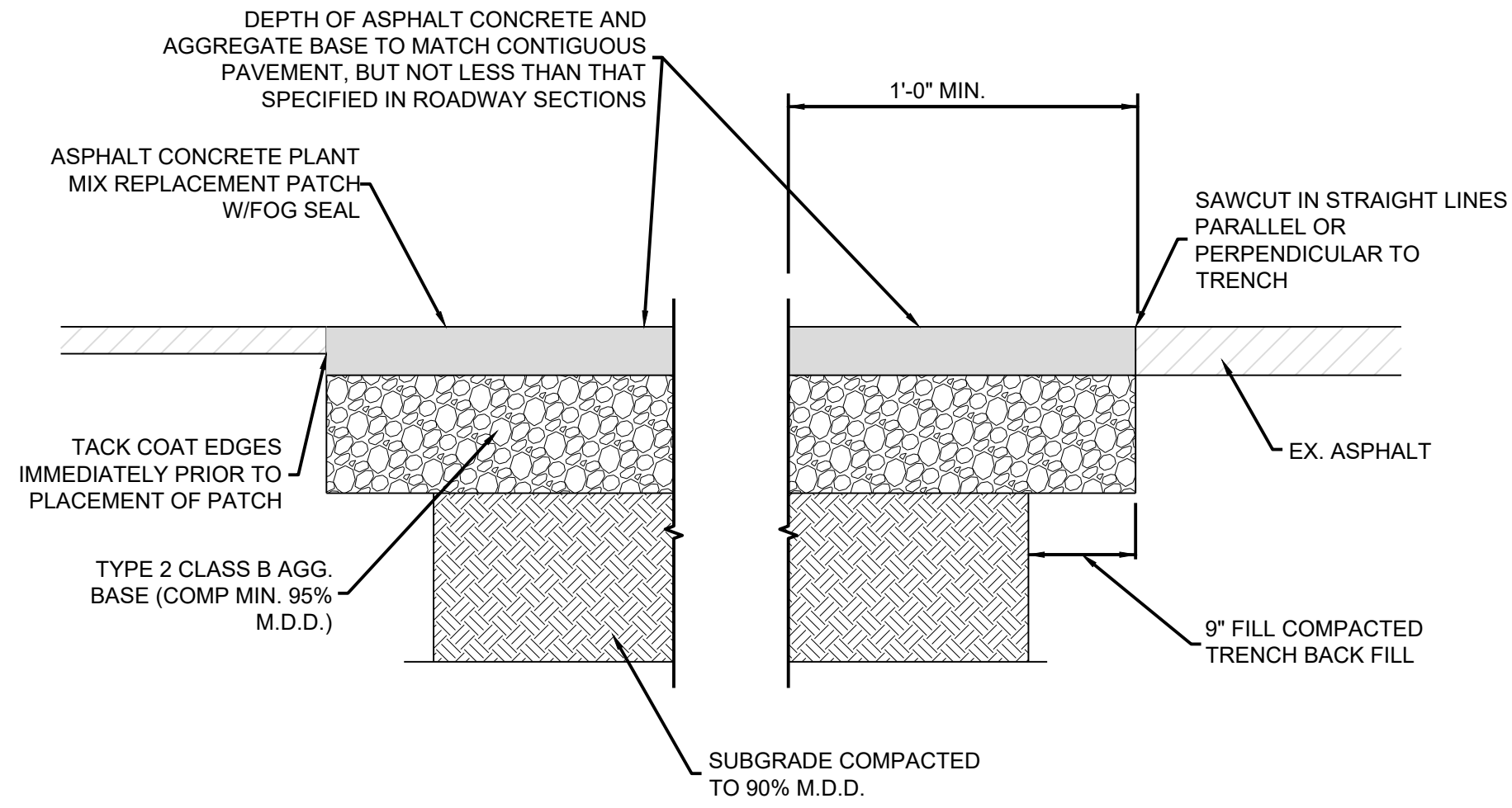
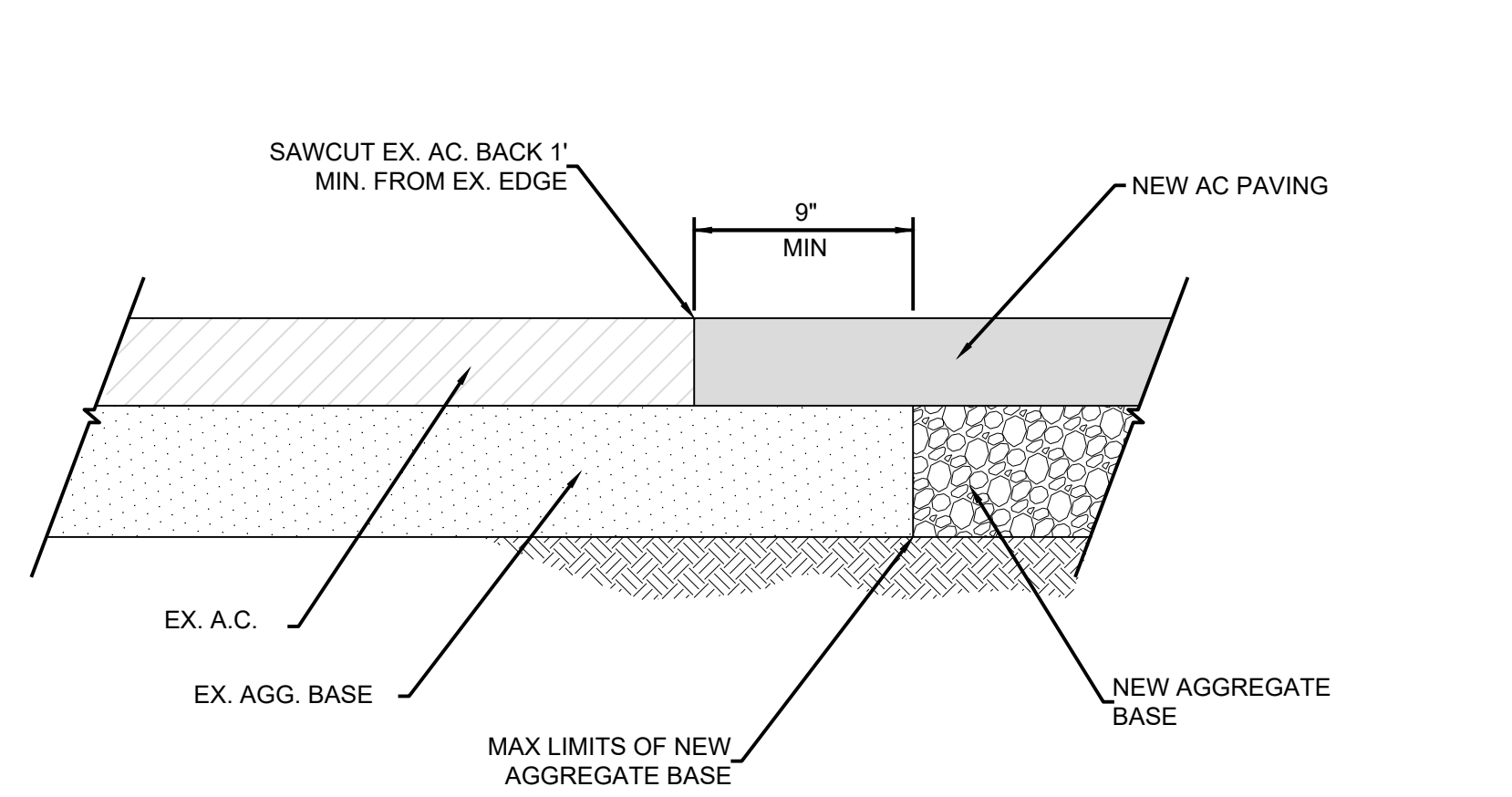
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**C7.2**

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CHECKED BY: AJG  
JOB NO.: 10514.000



**NOTES:**

1. THE CONTRACTOR SHALL PULVERIZE THE EXISTING ASPHALT CONCRETE AND BASE AND REUSE THIS MATERIAL AS BASE AND/OR STRUCTURAL FILL/TRENCH BACKFILL. THE PULVERIZED ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF TYPE 1 RECYCLED AGGREGATE BASE IN THE STANDARD SPECIFICATIONS IF TO BE REUSED AS BASE MATERIAL. THE PULVERIZED AGGREGATE BASE MATERIAL SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED TO A MINIMUM OF 95% RELATIVE TO ASTM D1557. PRIOR TO PLACEMENT OF ASPHALT, THE CONTRACTOR SHALL PROOF ROLL THE RECYCLED AGGREGATE BASE UTILIZING A LOADER WITH A FULL BUCKET, OR A FULLY LOADED 10 WHEEL WATER TRUCK.
2. IF UNSUITABLE MATERIAL IS ENCOUNTERED, CONTRACTOR TO NOTIFY DESIGN ENGINEER FOR APPROPRIATE REMEDIATION.

**NOTES:**

1. IF SAWCUT IS WITHIN 24" OF EDGE OF AC PAVEMENT, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION

**SAW CUT EXISTING PAVEMENT** ①

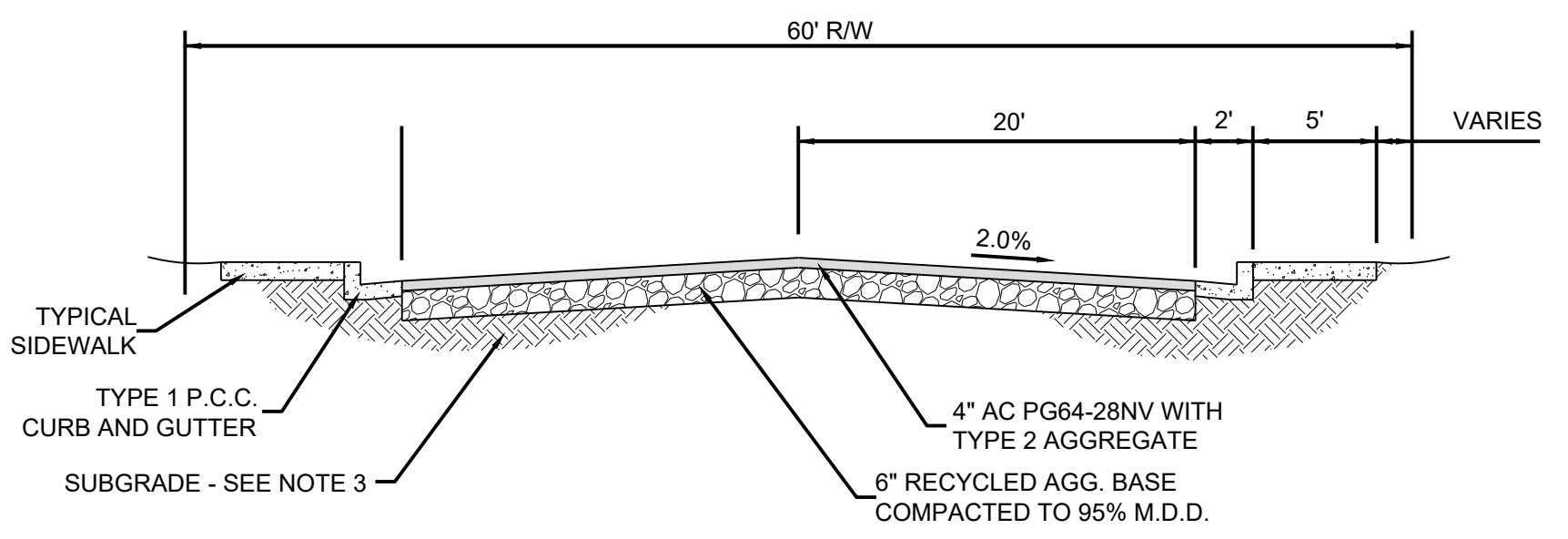
N.T.S.

**AC PAVING PATCH** ②

N.T.S.

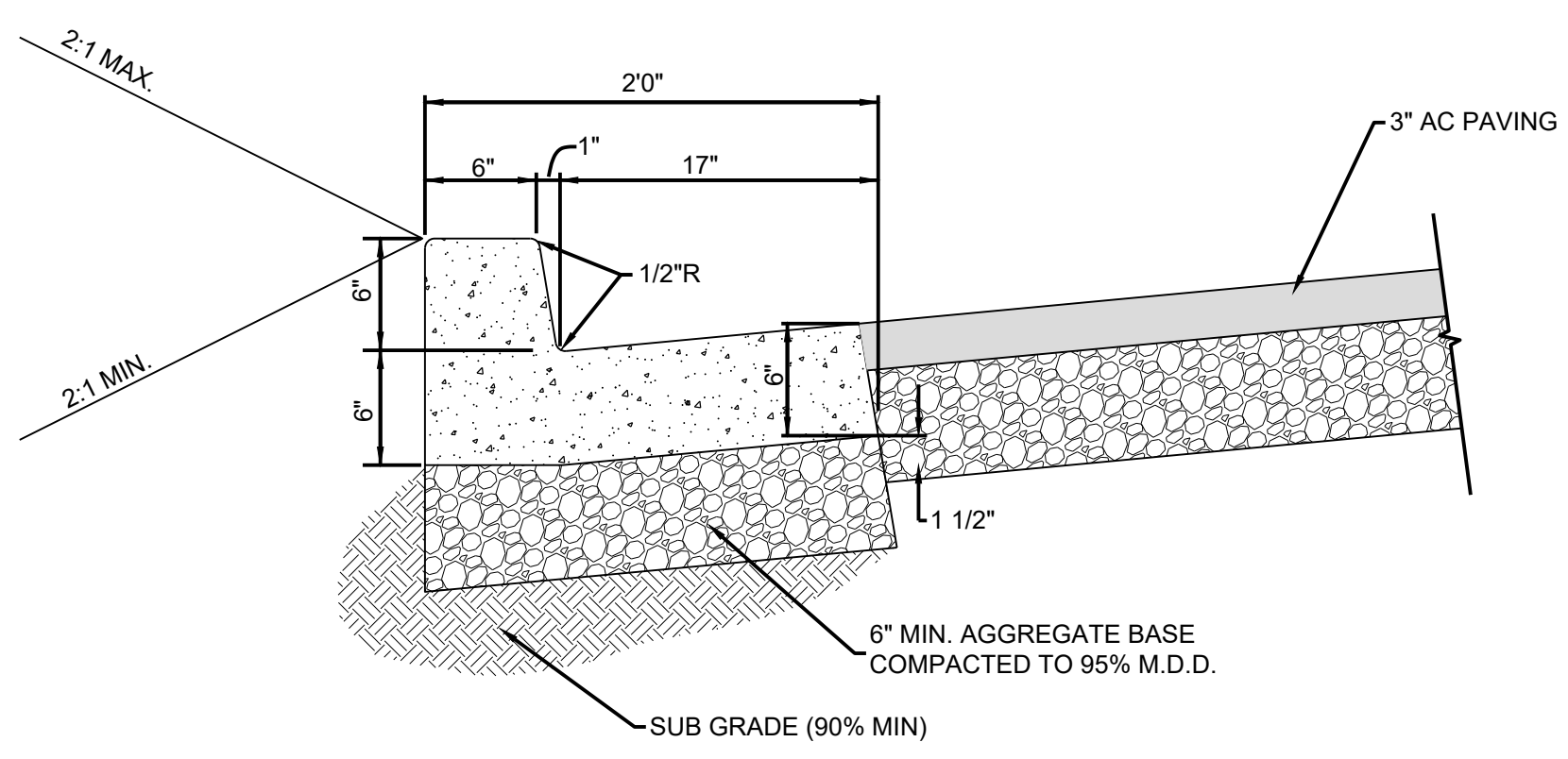
**TYPICAL 80' ROAD SECTION - BROADWAY STREET** ③

N.T.S.



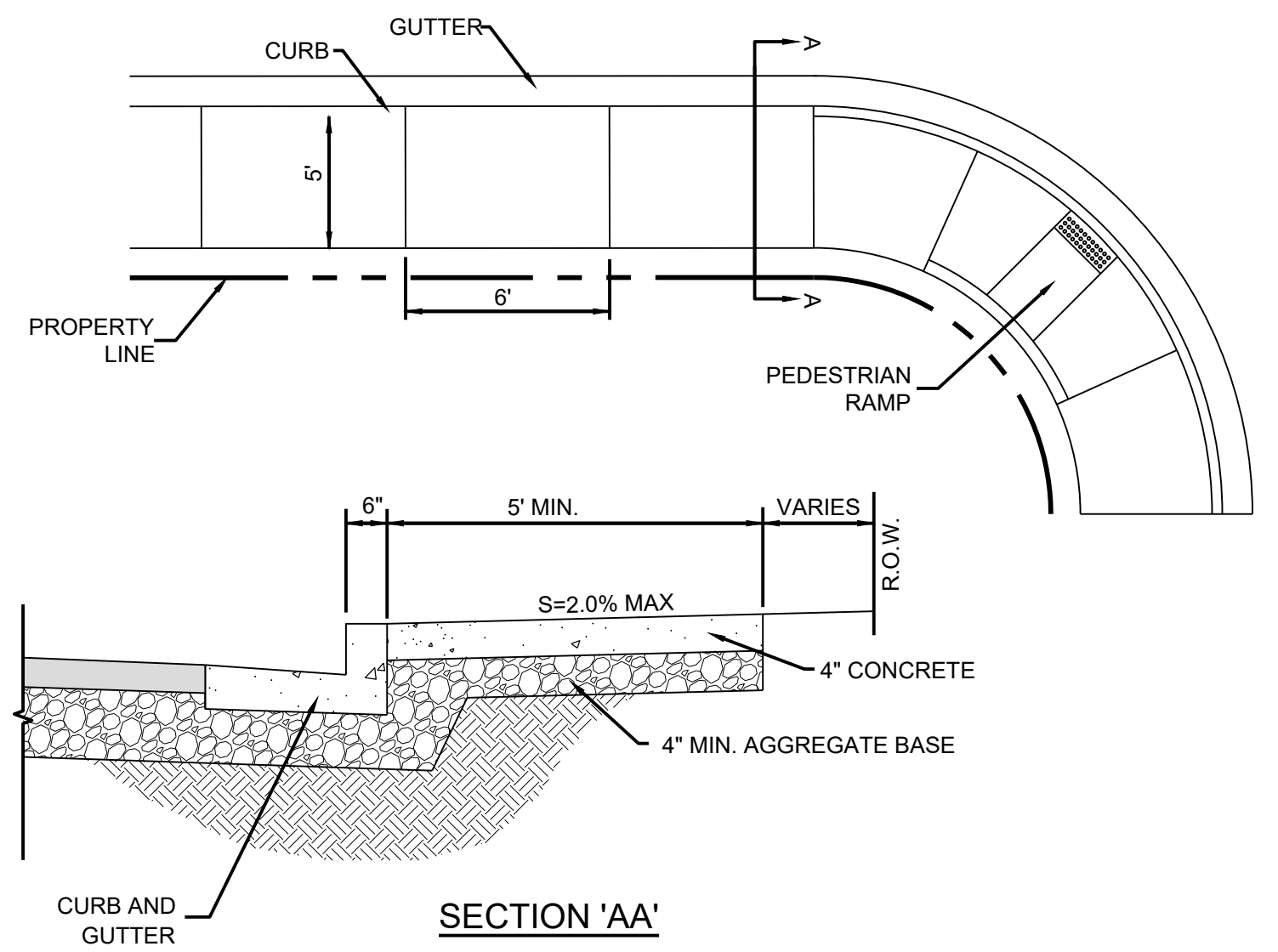
**NOTES:**

1. THE CONTRACTOR SHALL PULVERIZE THE EXISTING ASPHALT CONCRETE AND BASE AND REUSE THIS MATERIAL AS BASE AND/OR STRUCTURAL FILL/TRENCH BACKFILL. THE PULVERIZED ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF TYPE 1 RECYCLED AGGREGATE BASE IN THE STANDARD SPECIFICATIONS IF TO BE REUSED AS BASE MATERIAL. THE PULVERIZED AGGREGATE BASE MATERIAL SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED TO A MINIMUM OF 95% RELATIVE TO ASTM D1557. PRIOR TO PLACEMENT OF ASPHALT, THE CONTRACTOR SHALL PROOF ROLL THE RECYCLED AGGREGATE BASE UTILIZING A LOADER WITH A FULL BUCKET, OR A FULLY LOADED 10 WHEEL WATER TRUCK.
2. IF UNSUITABLE MATERIAL IS ENCOUNTERED, CONTRACTOR TO NOTIFY DESIGN ENGINEER FOR APPROPRIATE REMEDIATION.



**NOTES:**

1. ALL P.C.C. CURB AND GUTTER SHALL BE FIBER-REINFORCED AND MEET 4,000 PSI MIN. @ 28 DAYS.
2. ALL CONCRETE CURB AND GUTTER SHALL HAVE 1/2" EXPANSION JOINTS EVERY 30' (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
3. AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 CLASS B AGGREGATE BASE AND BE COMPACTED TO 95% M.D.D..



**NOTES:**

1. ALL P.C.C. SIDEWALK SHALL BE FIBER-REINFORCED AND MEET 4,000 PSI MIN. AT 28 DAYS.
2. MINIMUM CURB RETURN RADIUS SHALL BE 20 FEET UNLESS OTHERWISE SPECIFIED.
3. INSTALL EXPANSION JOINTS AT BEGINNING AND END OF CURVES AND EVERY 200' ALONG TANGENTS.
4. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND COMPACTED TO 95% M.D.D.
5. SOLDIER COURSE CONCRETE SHALL BE THE INTEGRAL COLORED WITH 'CORAL RED'. REFERENCE PLANS FOR LOCATION OF SOLDIER COURSE

**TYPICAL 60' ROAD SECTION - SHERMAN STREET** ④

N.T.S.

**TYPE I P.C.C. CURB AND GUTTER** ⑤

N.T.S.

**P.C.C. SIDEWALK** ⑥

N.T.S.

CITY OF FALLON  
SHERMAN STREET & NORTH BROADWAY  
STREET REHABILITATION  
DETAILS  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

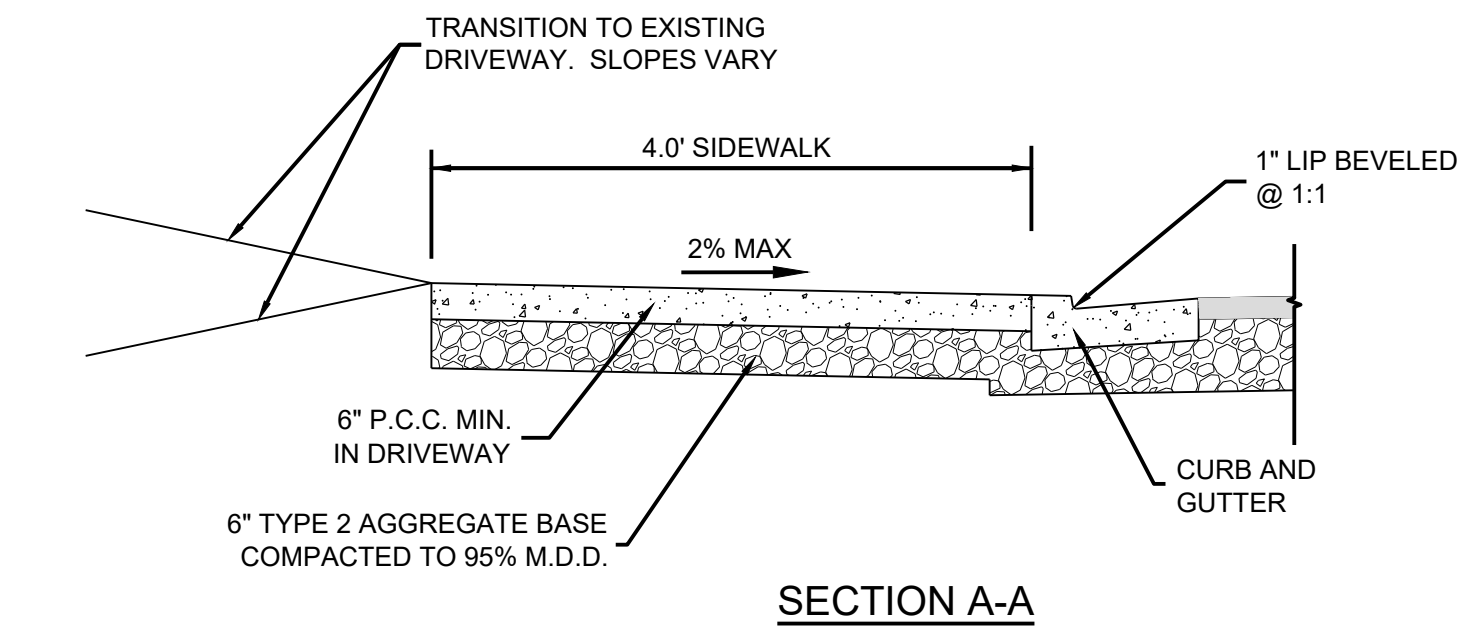
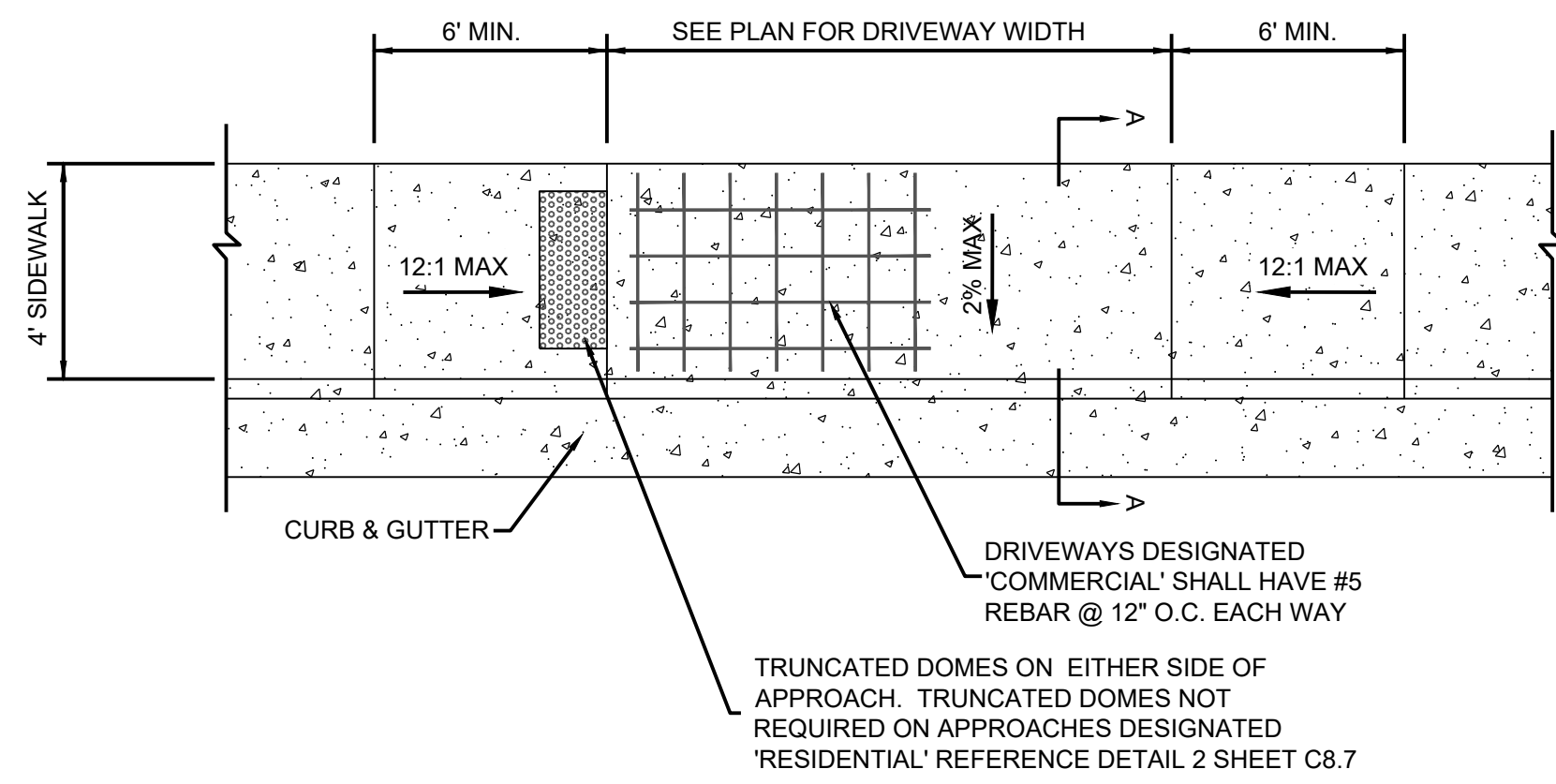
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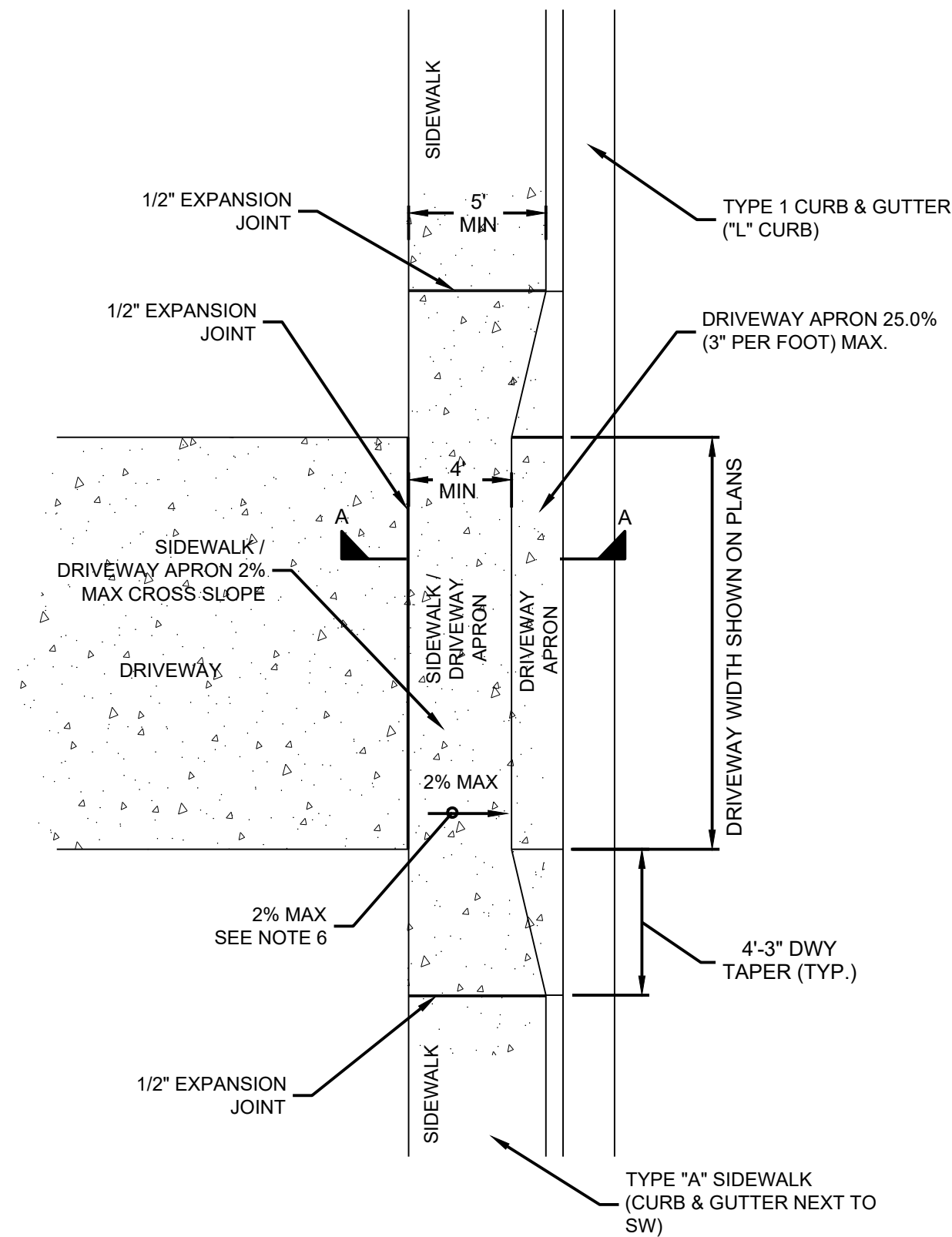


- NOTES:**
1. ALL RAMPES SHALL BE 12:1 OR FLATTER.
  2. CONCRETE DRIVEWAY CAN BE POURED MONOLITHICALLY WITH CURB AND GUTTER.
  3. ALL SLOPE RATES ARE RELATIVE TO LEVEL.
  4. LENGTH VARIES ACCORDING TO CURB AND GUTTER PROFILE.

**DRIVEWAY APRON**

N.T.S.

1

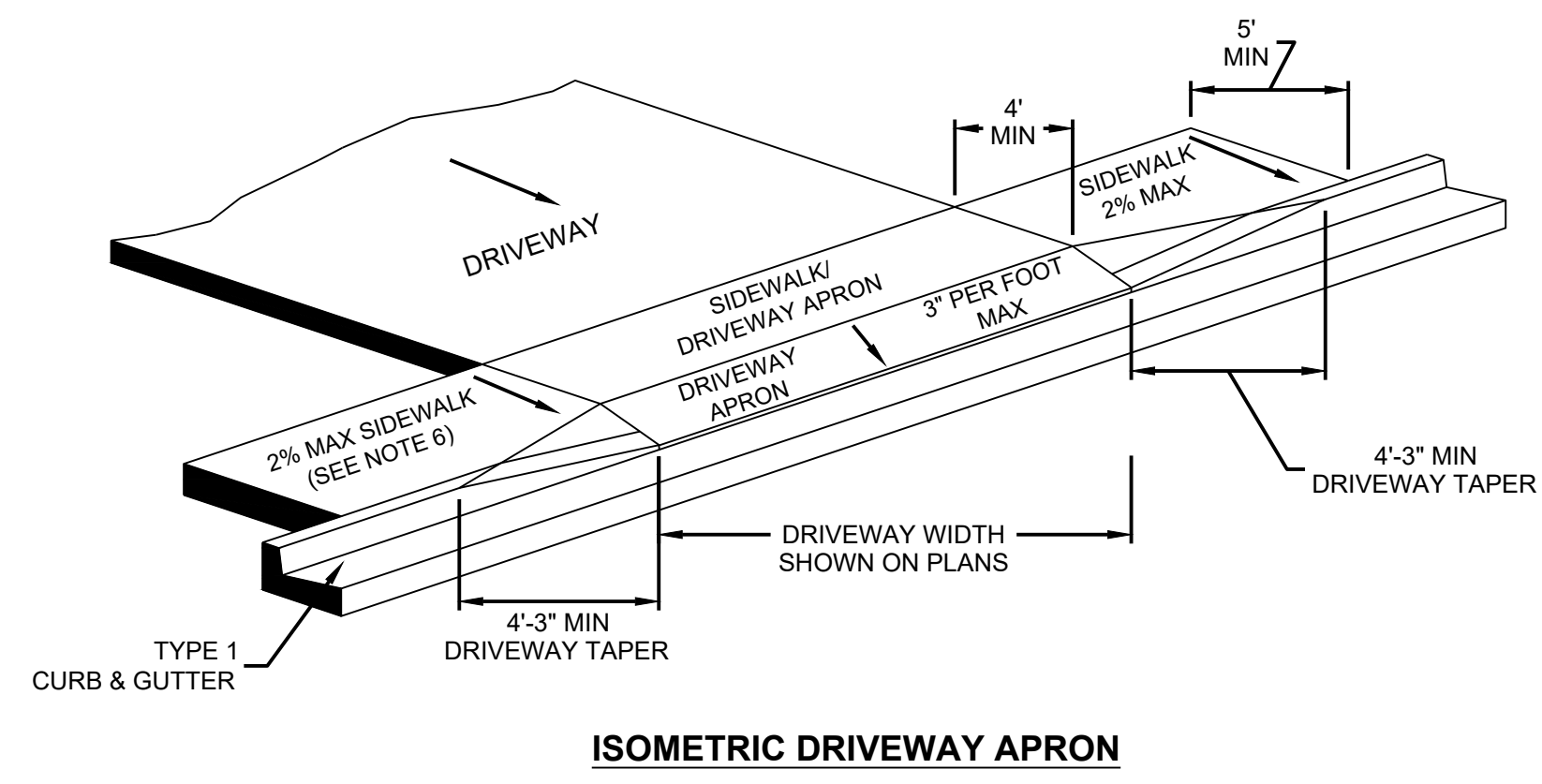


**PLANVIEW DRIVEWAY APRON**

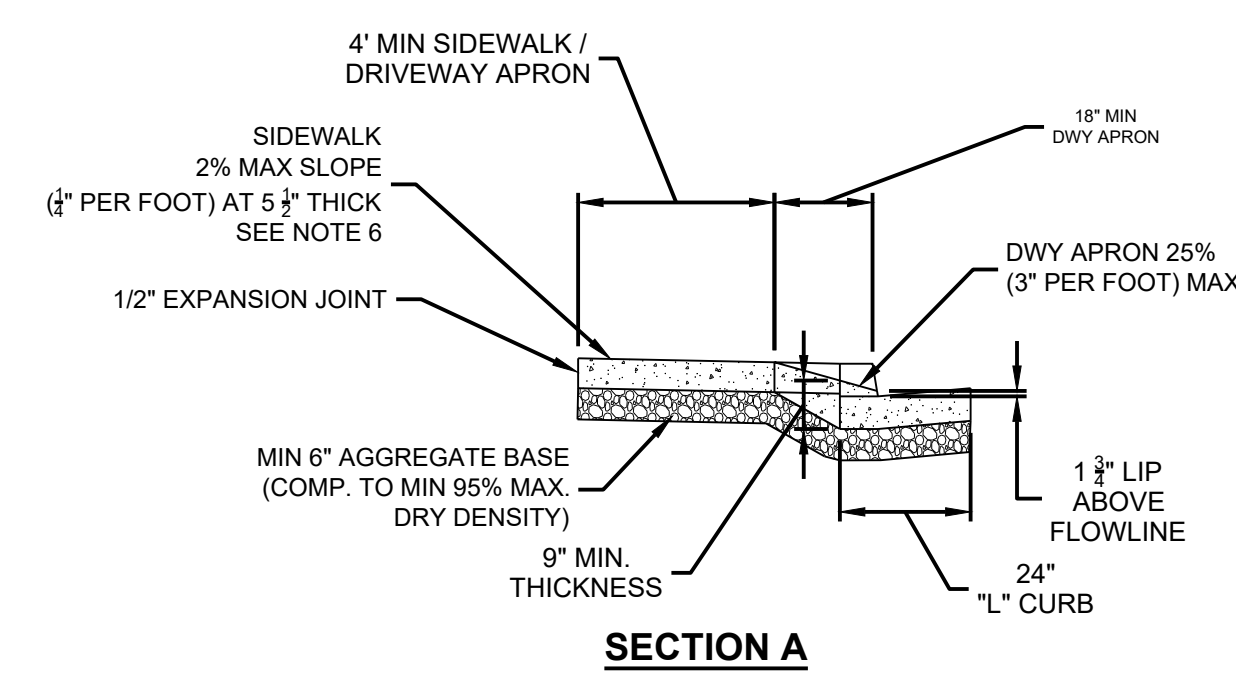
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**TYPE 1 DRIVEWAY APRON**

N.T.S.

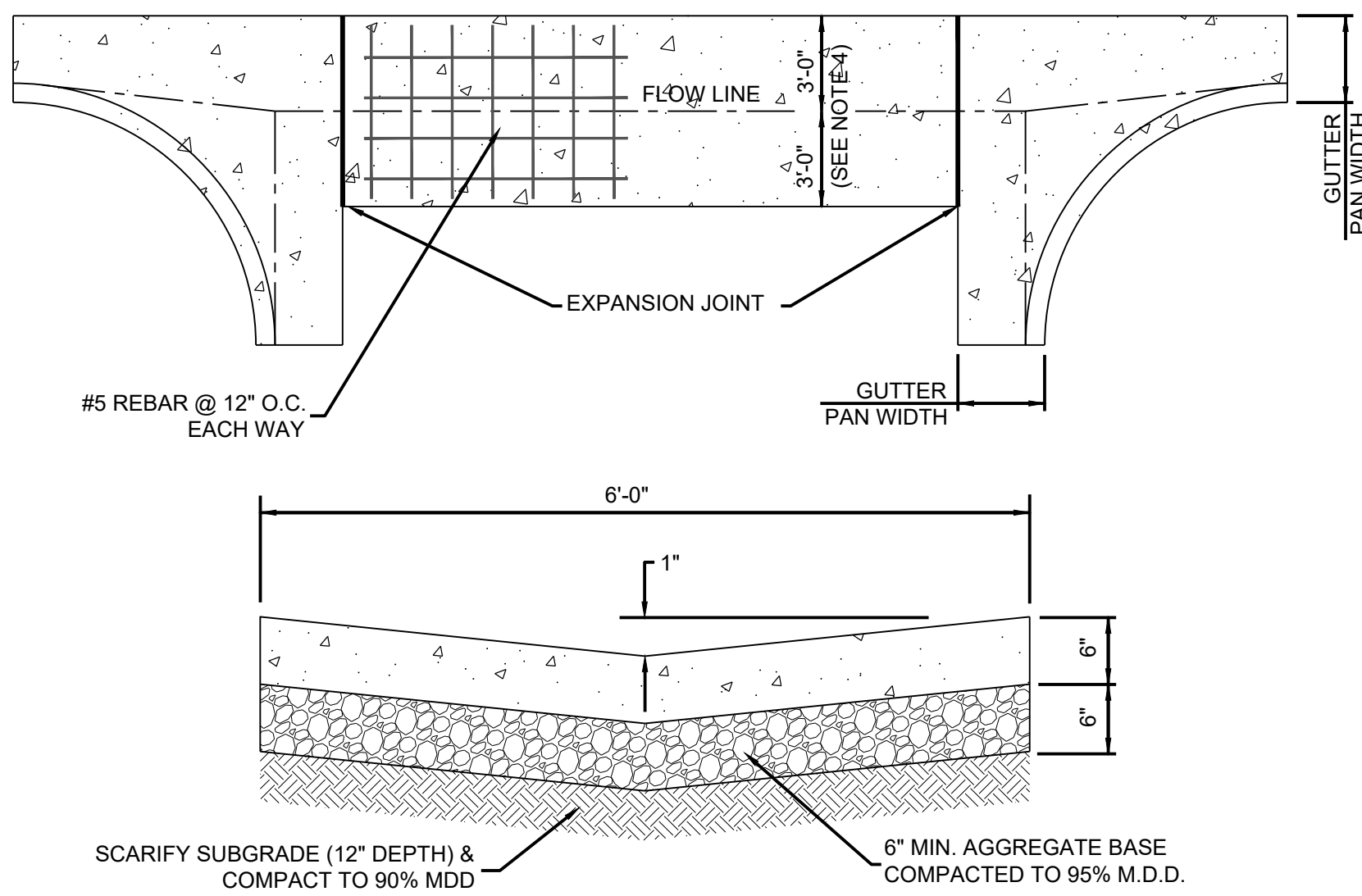
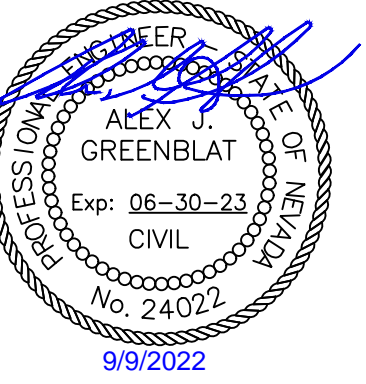


**ISOMETRIC DRIVEWAY APRON**



**SECTION A**

- NOTES:**
1. DRIVEWAY SLOPE SHALL BE 25.0% (3% PER FOOT) MAXIMUM WITH TYPE "A" SIDEWALK.
  2. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202, CURRENT EDITION.
  3. OBSTRUCTIONS WILL NOT BE PERMITTED WITHIN A 3' MIN. WIDTH ON ANY SIDEWALK. ANY PORTION OF SIDEWALK THAT EXCEEDS 2% MAX. CROSS-SLOPE SHALL BE REMOVED AND REPLACED. SLOPES MUST BE VERIFIED WITH A SMART LEVEL BY INSPECTOR.

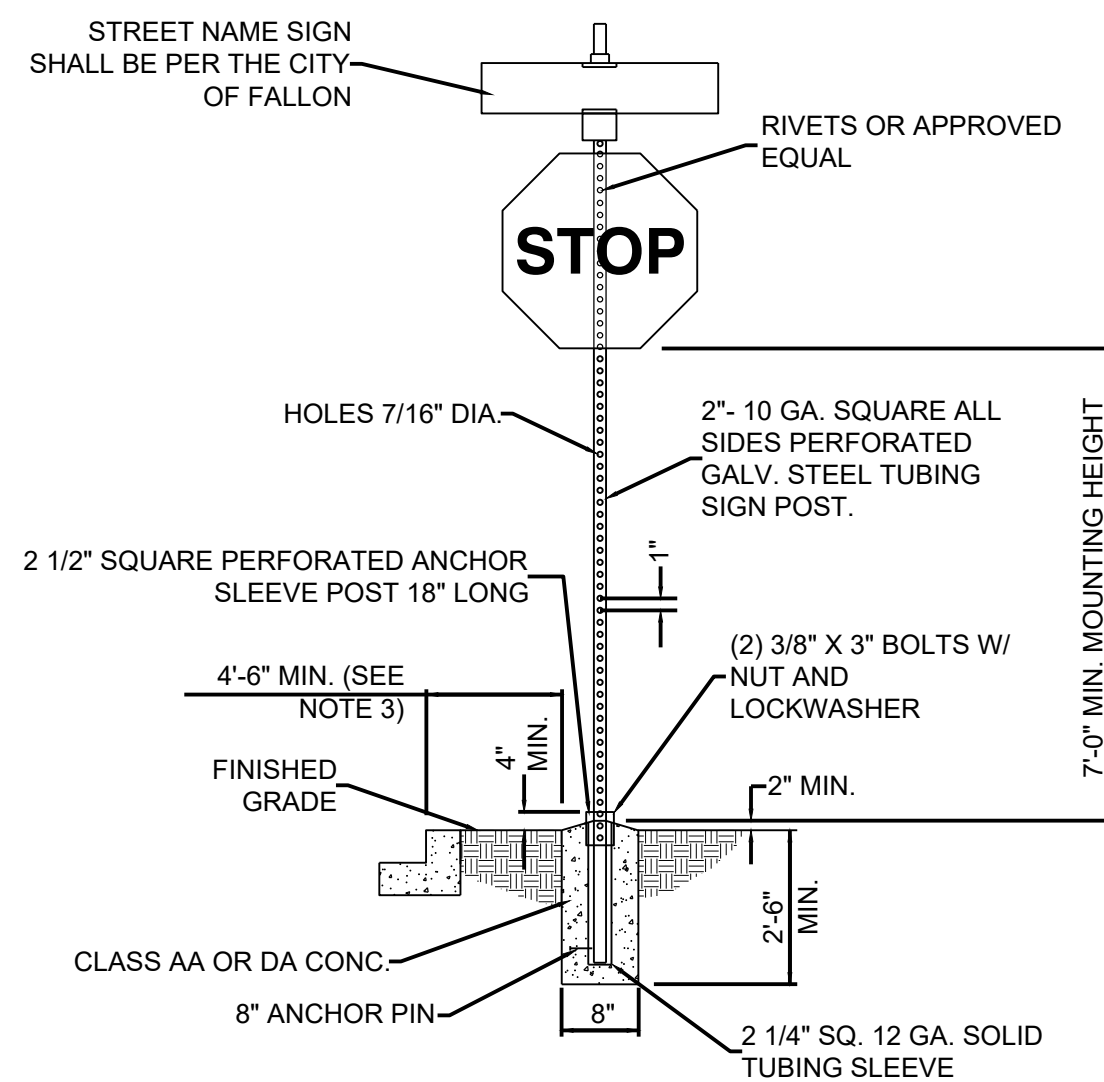


- NOTES:**
1. P.C.C. VALLEY GUTTER SHALL BE FIBER-REINFORCED AND MEET 4,000 PSI MIN. @ 28 DAYS.
  2. GUTTER PAN WIDTH SHALL BE 6'-0" WIDE.
  3. AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 CLASS B AGGREGATE BASE AND BE COMPACTED TO 95% M.D.D..
  4. SEE GRADING/SURFACE IMPROVEMENT PLAN FOR EXACT LOCATION OF FLOW LINES

**P.C.C. VALLEY GUTTER**

N.T.S.

3

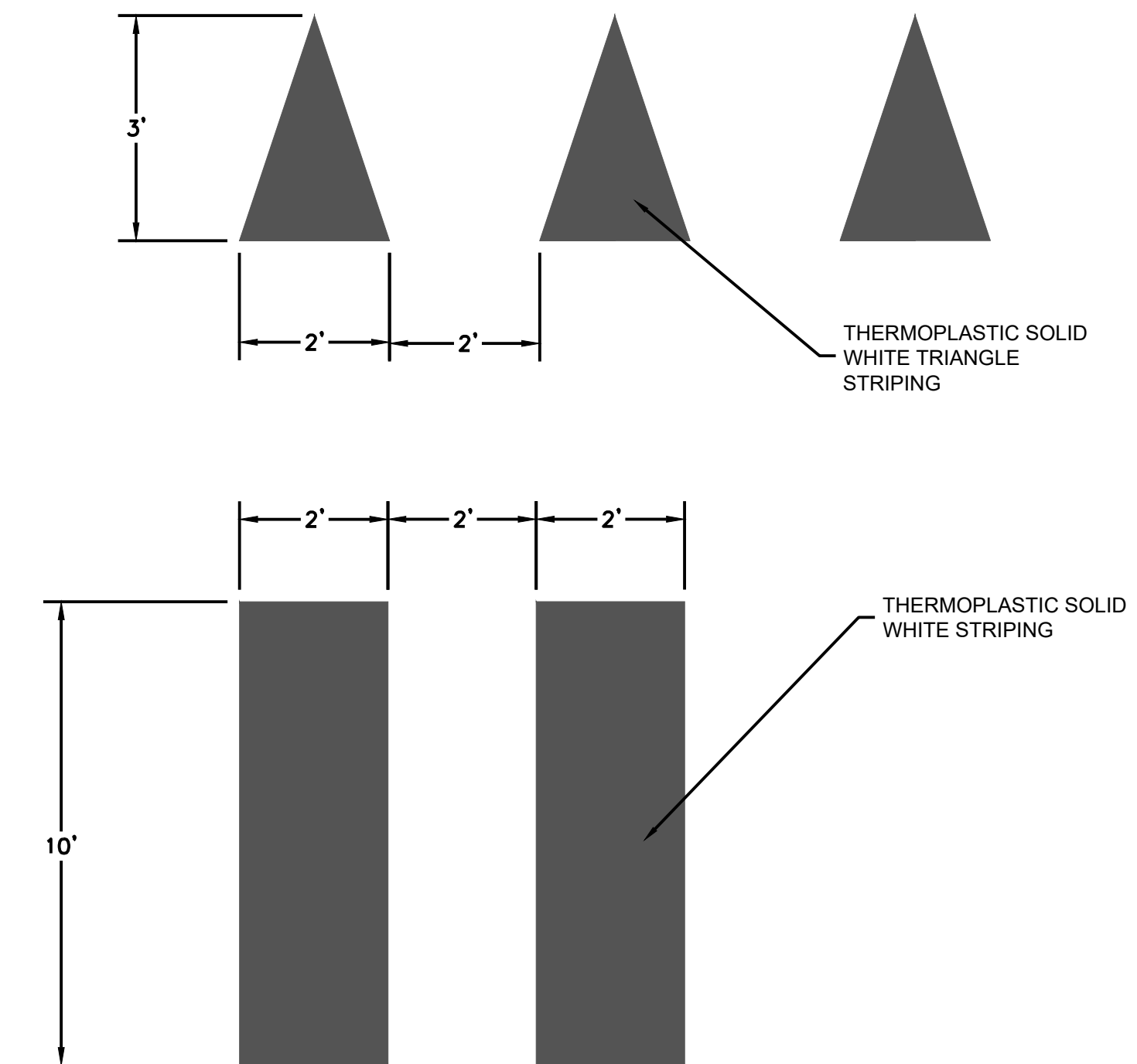


- NOTES:**
1. SIGN MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  2. STREET NAME SIGNS SHALL BE AS DETAILED ABOVE AND MOUNTED WITH VANDAL-PROOF HARDWARE.
  3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6' MINIMUM FROM EDGE OF PAVEMENT.
  4. AT 4-WAY STOP CONTROLLED INTERSECTIONS, ONE (1) R1-4 (ALL WAY) SIGN SHALL BE MOUNTED DIRECTLY BELOW THE STOP SIGN (R1-1).

**STANDARD STREET SIGN**

N.T.S.

4



**YIELD LINE / CROSSWALK STRIPING**

N.T.S.

5

REV.	DATE	DESCRIPTION

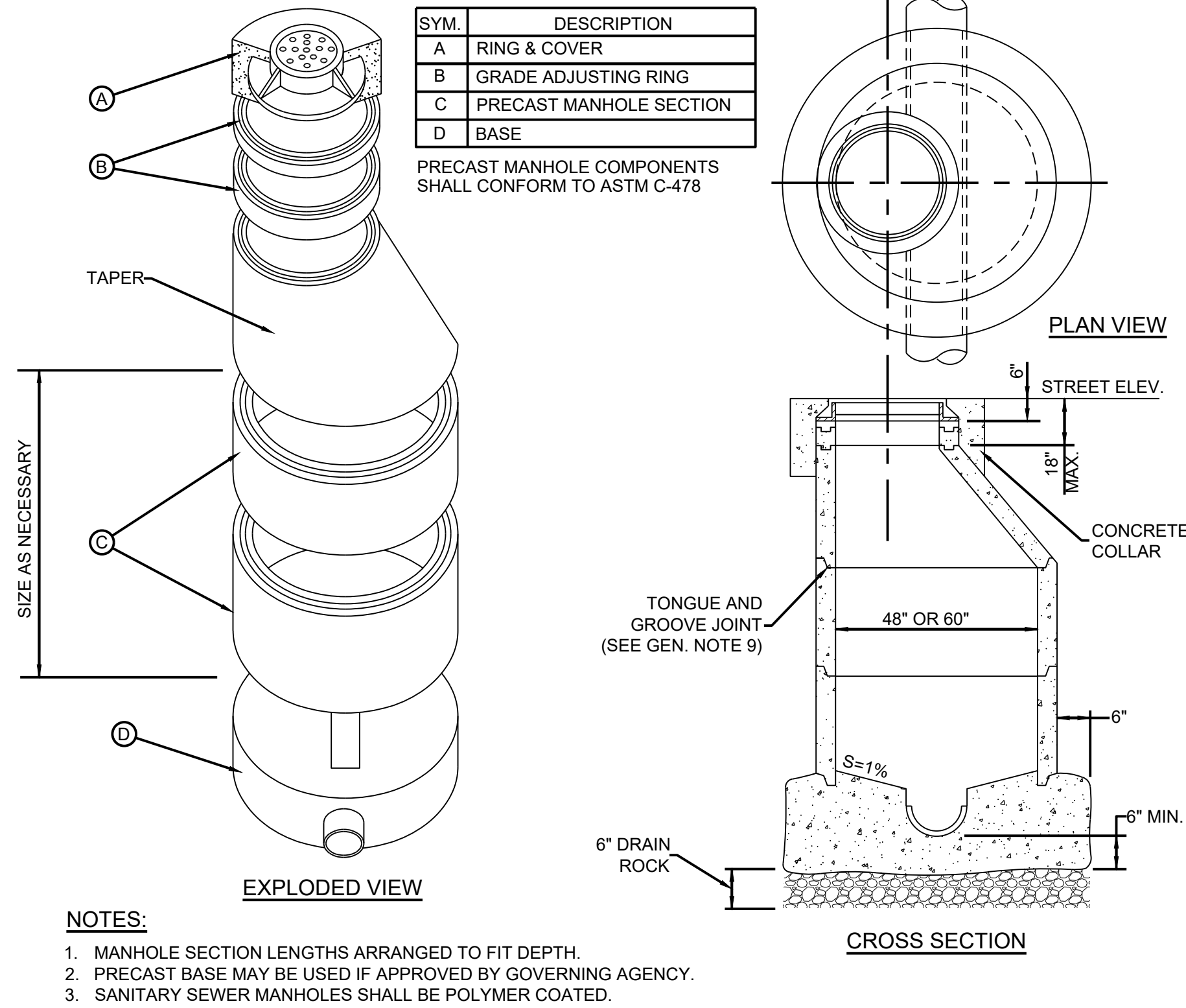
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- NOTES:**
- MANHOLE SECTION LENGTHS ARRANGED TO FIT DEPTH.
  - PRECAST BASE MAY BE USED IF APPROVED BY GOVERNING AGENCY.
  - SANITARY SEWER MANHOLES SHALL BE POLYMER COATED.

**TYPE I-A MANHOLE - POLYMER**

N.T.S.

1

**MANHOLE GENERAL NOTES**

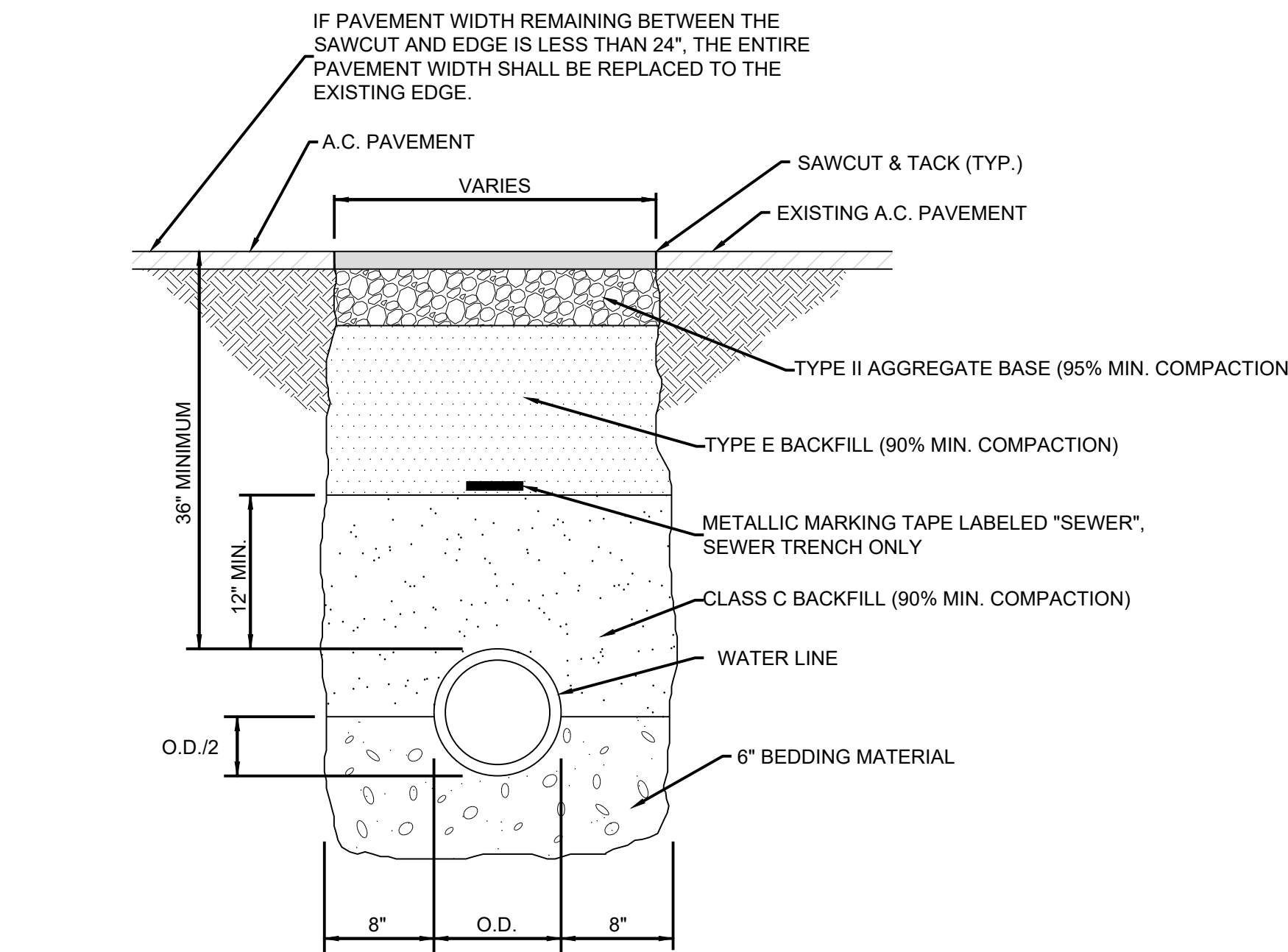
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**SEWER LATERAL CONNECTION**

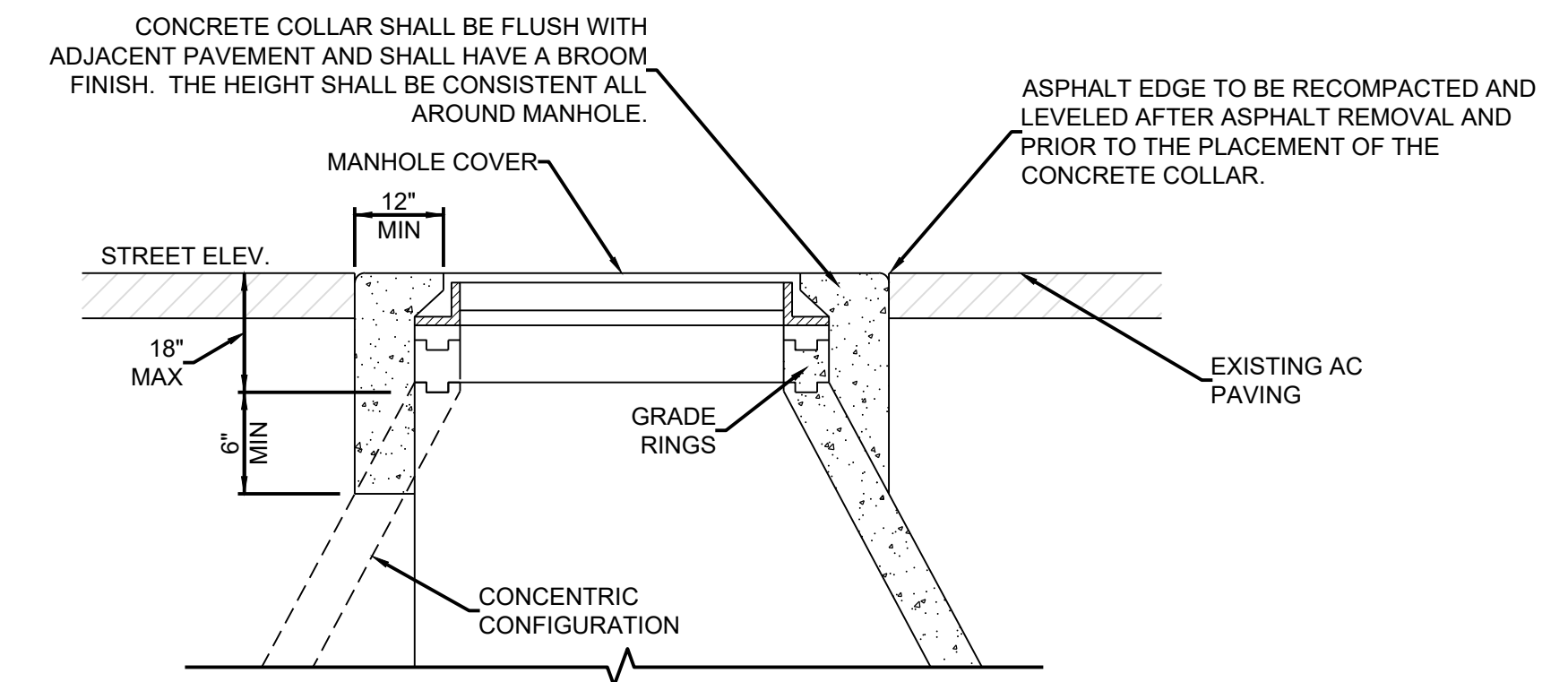
N.T.S.

3



STORM DRAIN/SANITARY SEWER

5



**NOTES:**

- CONCRETE COLLAR TO BE PORTLAND CEMENT CONCRETE (P.C.C.) WITH THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ± 1.5% AND A SLUMP OF 1 TO 4 INCHES.
- MANHOLE LIDS SHALL NOT BE LOCATED IN THE GUTTER PANS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

**P.C.C. MANHOLE COLLAR**

N.T.S.

6

**TERMINAL SANITARY SEWER CLEANOUT**

N.T.S.

4

**TYPICAL SEWER/STORM TRENCH DETAIL**

**P.C.C. MANHOLE COLLAR**

N.T.S.



CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION**  
DETAILS  
CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

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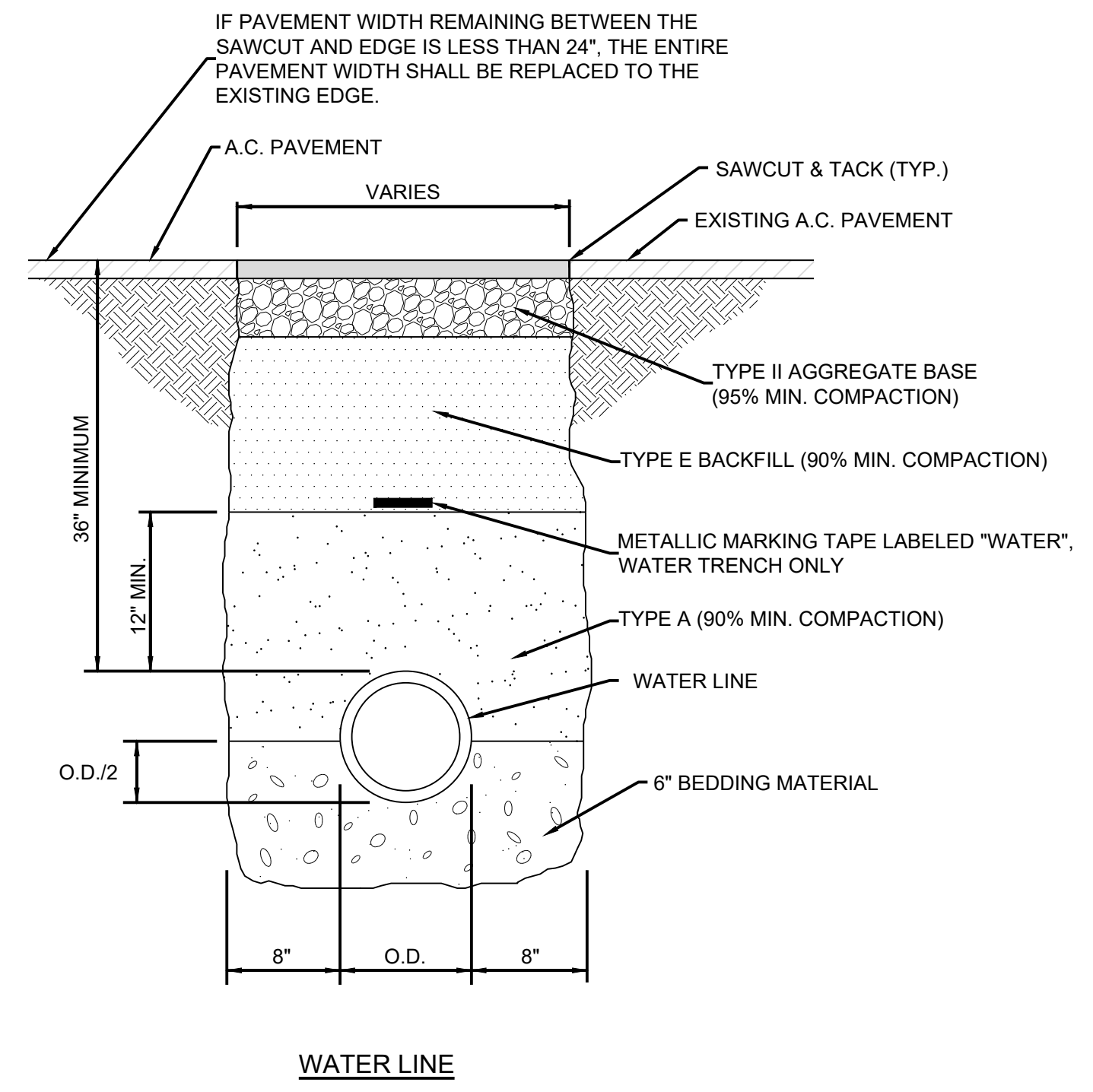
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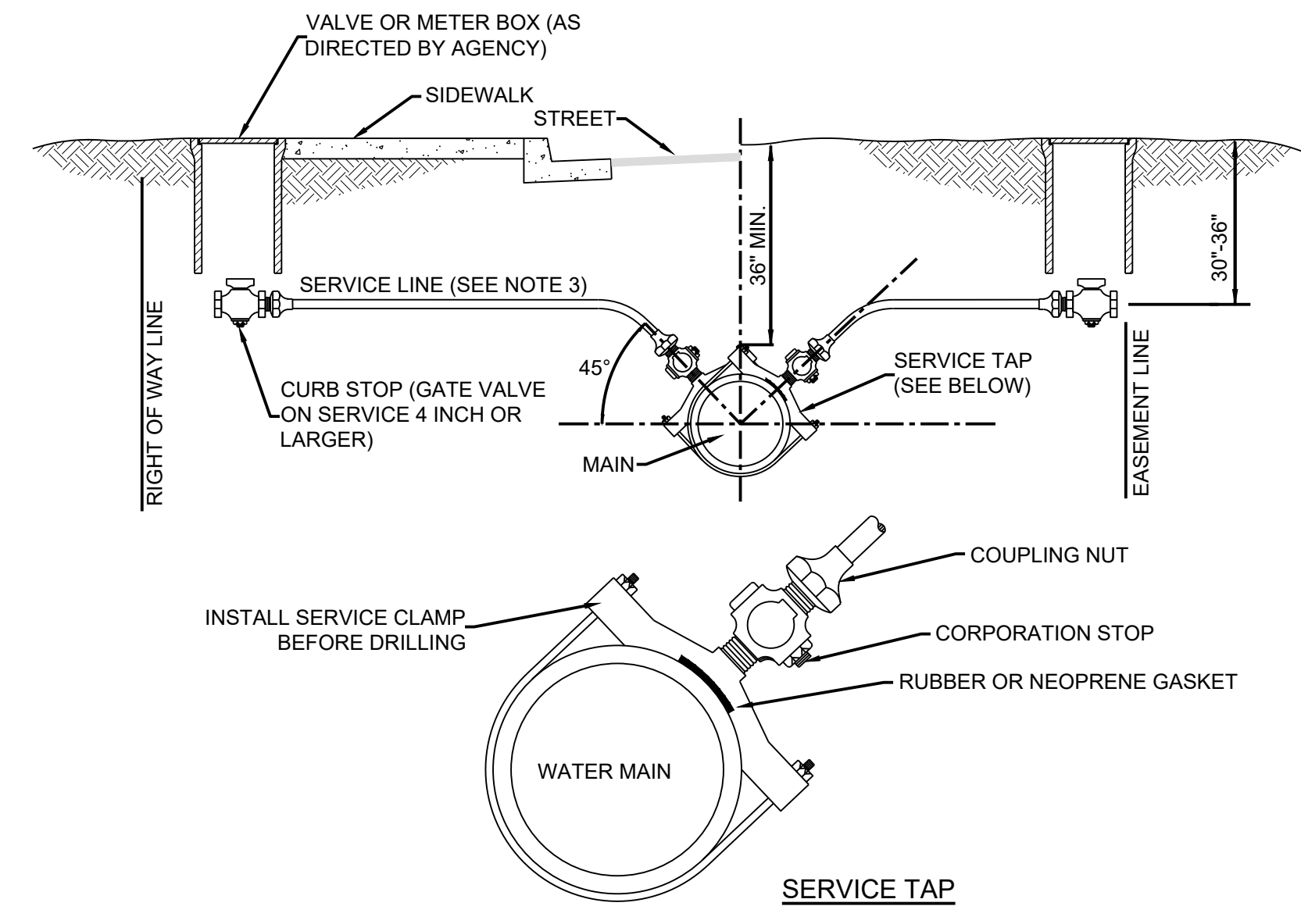
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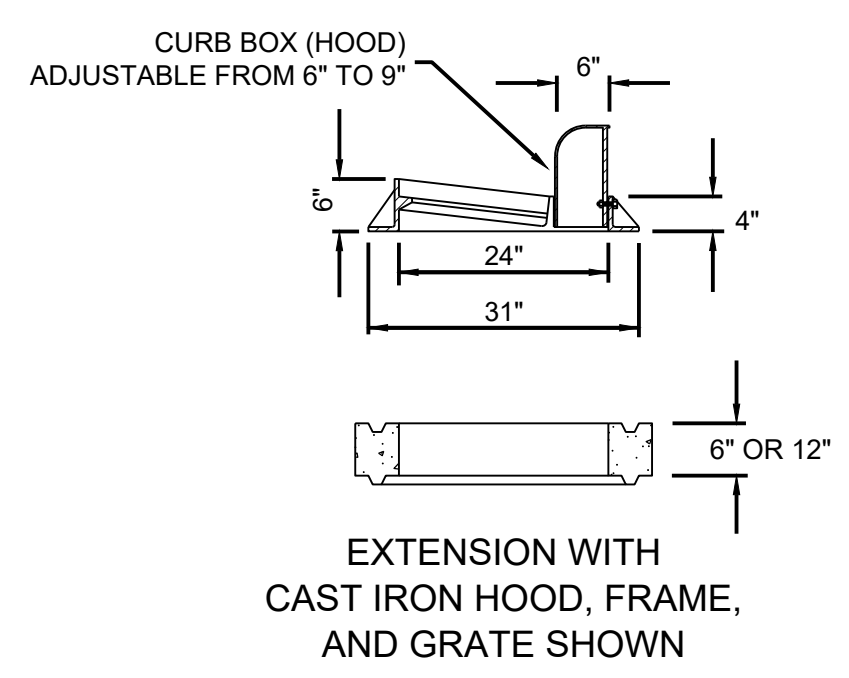


**3 TYPICAL WATER TRENCH SECTION**  
N.T.S.

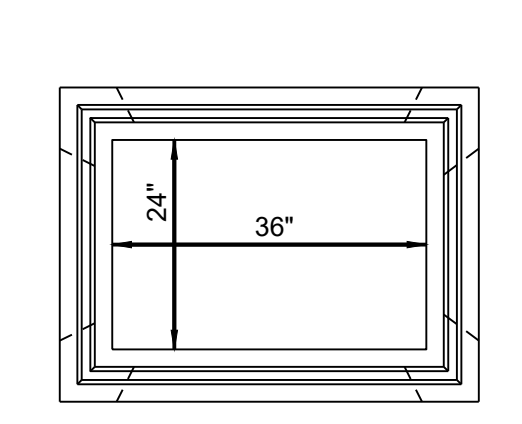


- NOTES:**
- CORPORATION STOP, CURB STOP, GATE VALVE 4" OR LARGER AND SERVICE LINE TO BE THE SAME SIZE.
  - SERVICE STRAPS SHALL BE SINGLE STRAP FOR UP TO 1" SERVICES AND BE A DOUBLE STRAP FOR LARGER SIZES, EXCEPT WHERE SIZE OF TAP EXCEEDS MANUFACTURER'S RECOMMENDED LIMIT FOR SIZE OF MAIN. FOR THIS SITUATION, A SPECIAL FITTING WILL BE SPECIFIED.
  - SERVICE LINE SHALL BE POLYETHYLENE TUBING (CTS) THAT CONFORM TO AWWA STANDARD C901-17 'POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 3/4" TO 3" FOR WATER SERVICE' AND ASTM D2737 'STANDARD SPECIFICATIONS FOR POLYETHYLENE (PE) PLASTIC TUBING. MINIMUM TEST PRESSURE SHALL BE 160 P.S.I.

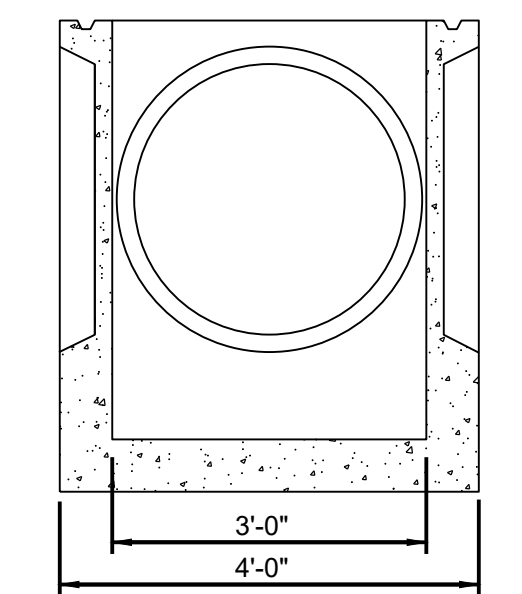
**6 TYPICAL WATER SERVICE CONNECTION**  
N.T.S.



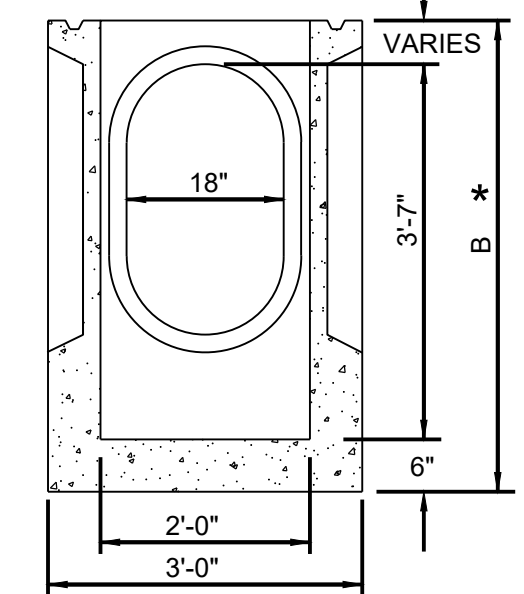
**EXTENSION WITH CAST IRON HOOD, FRAME, AND GRATE SHOWN**



**TOP VIEW-BOX WITH CAST IRON REMOVED**



**FRONT VIEW**

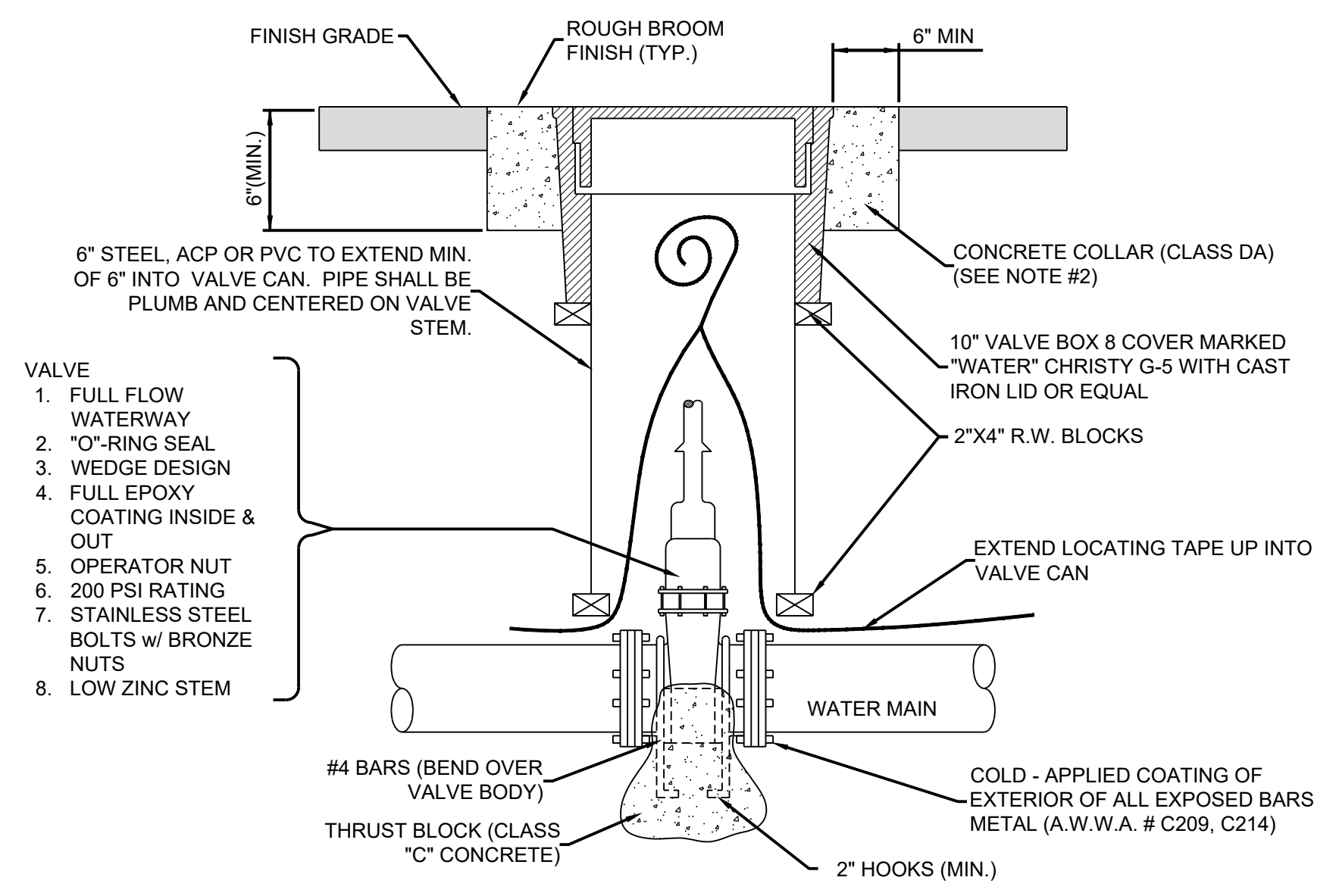


**SIDE VIEW**

UP TO 6'-0" INSIDE DEPTH  
DROP INLET

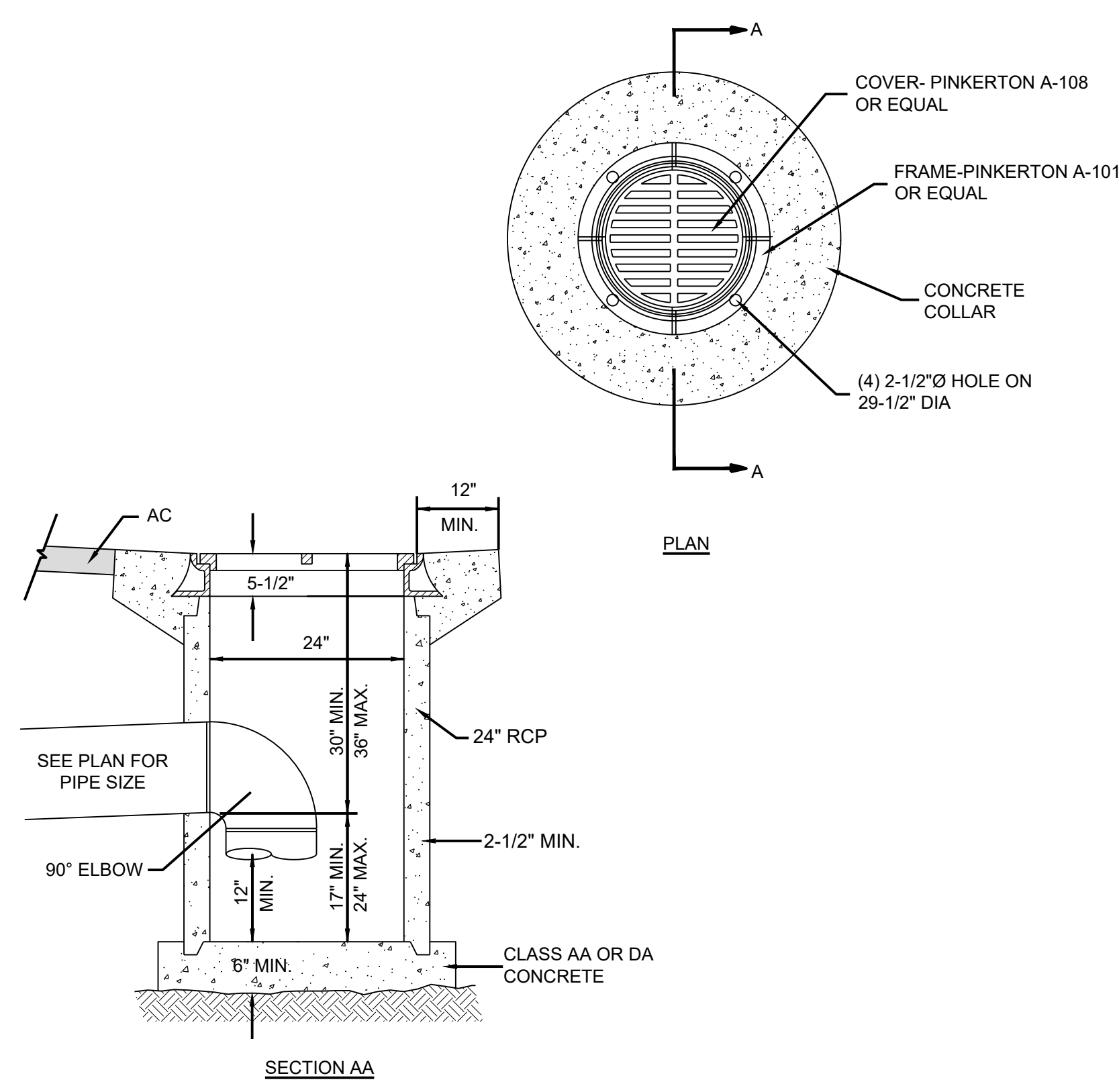
MODEL NO.	A	B	WEIGHT
DI243636-4R	36"	42"	3080 LBS.
DI243648-4R	48"	54"	3940 LBS.
DI243660-4R	60"	66"	5660 LBS.
DI243672-4R	72"	78"	6510 LBS.

**2 TYPE 4R CATCH BASIN**  
N.T.S.



- NOTES:**
- SEE DETAIL FOR THRUST BLOCK SIZE. (MATERIAL USED FOR THRUST BLOCKING SHOULD NOT PREVENT ACCESS TO BOLT ASSEMBLY)

**5 TYPICAL WATER VALVE**  
N.T.S.



**1 #200 DROP INLET**  
N.T.S.

TYPE OF FITTING	90° BEND	45° BEND	1 1/2" OR 2 1/2" BEND	TEE OR DEAD END	TEE W/PLUG	CROSS W/PLUG
TYPICAL INSTALLATION						

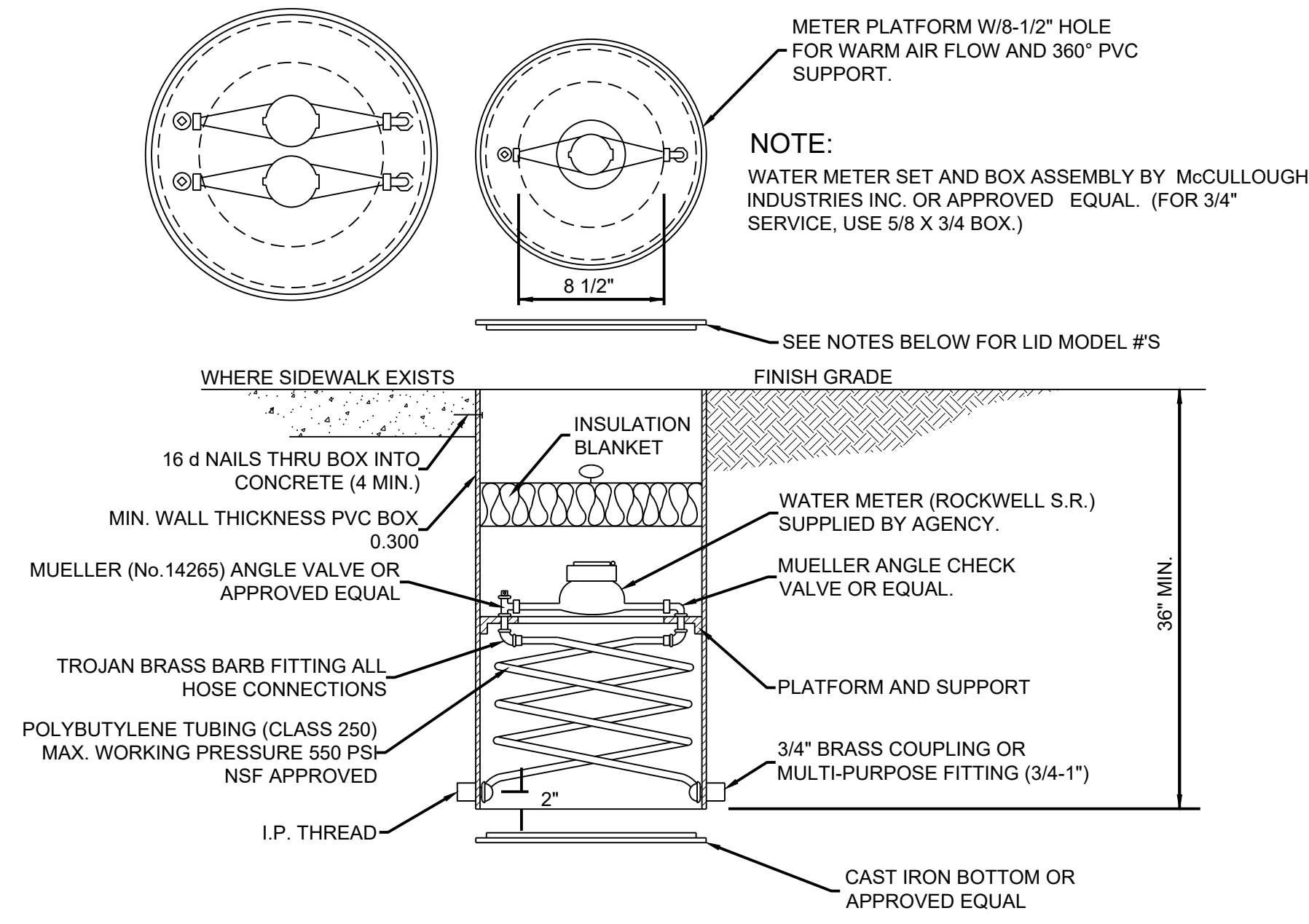
THRUST BLOCK BEARING AREA (sq. ft.)

TYPE OF FITTING	90° BEND	45° BEND	1 1/2" OR 2 1/2" BEND	TEE OR DEAD END	TEE W/PLUG	CROSS W/PLUG
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

- NOTES:**
- THRUST BLOCKS ARE TO BE CONSTRUCTED OF CLASS 'C' CONCRETE.
  - AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURE OF 150 P.S.I., WITH 2000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF THE ENGINEER.
  - THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED SOIL.
  - JOINTS AND FACE OF PLUGS ARE TO BE KEPT CLEAR OF CONCRETE.

**4 THRUST BLOCK BEARING AREAS**  
N.T.S.



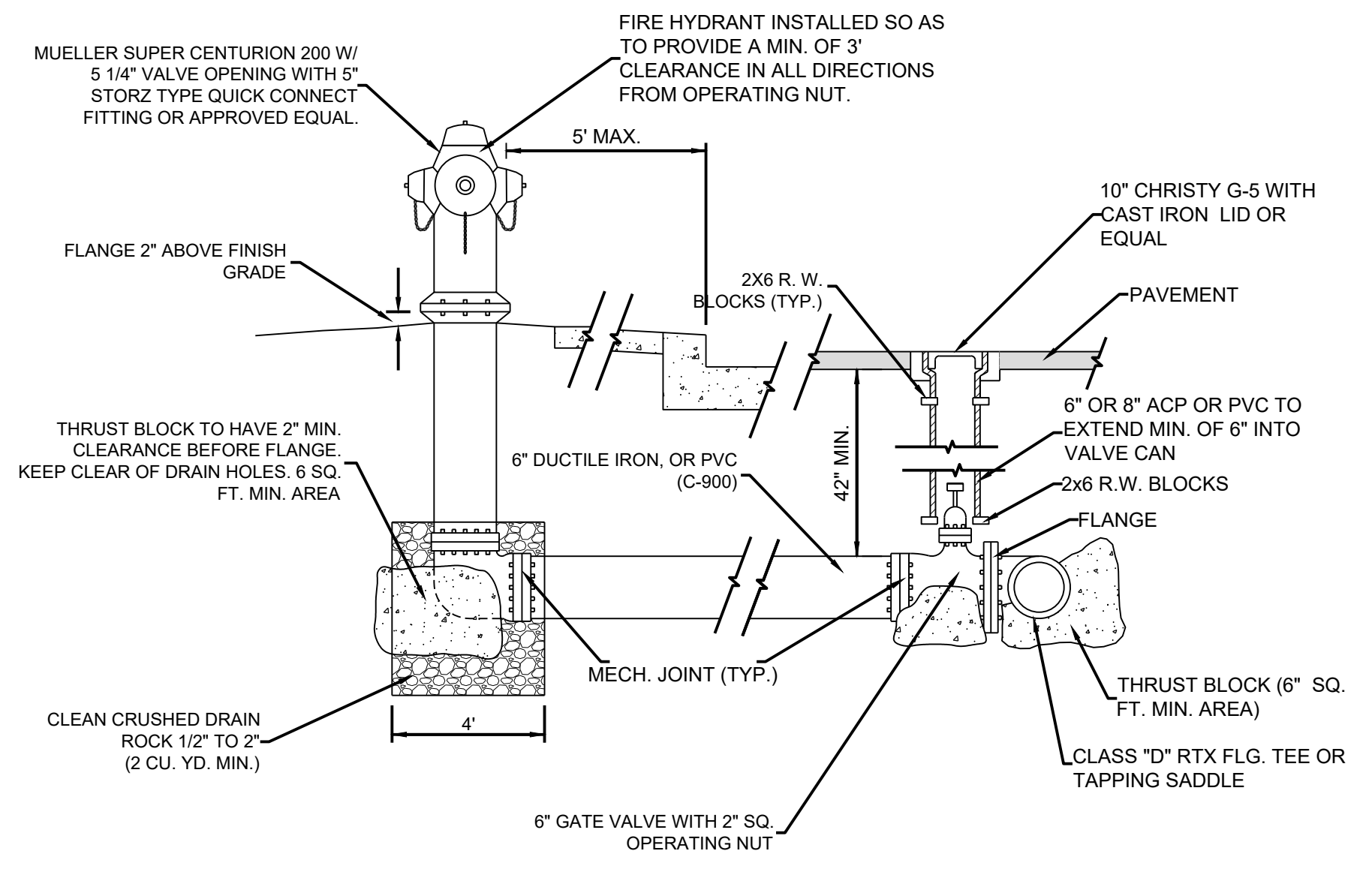


- NOTES:**
- FOR A 3/4" SINGLE METER USE A 'MUELLER' LID MODEL #780112
  - FOR A 1" SINGLE METER USE A 'MUELLER' LID MODEL #780113
  - FOR A DOUBLE METER USE A 'MUELLER' LID MODEL #780111
  - DOUBLE METER SET SHALL HAVE A 1" SERVICE
  - SERVICE LINE - SIZE AS DIRECTED BY CCPW (3/4" - 1") WITH COUPLING ADAPTOR.

**3/4" - 1" METER SET**

N.T.S.

1

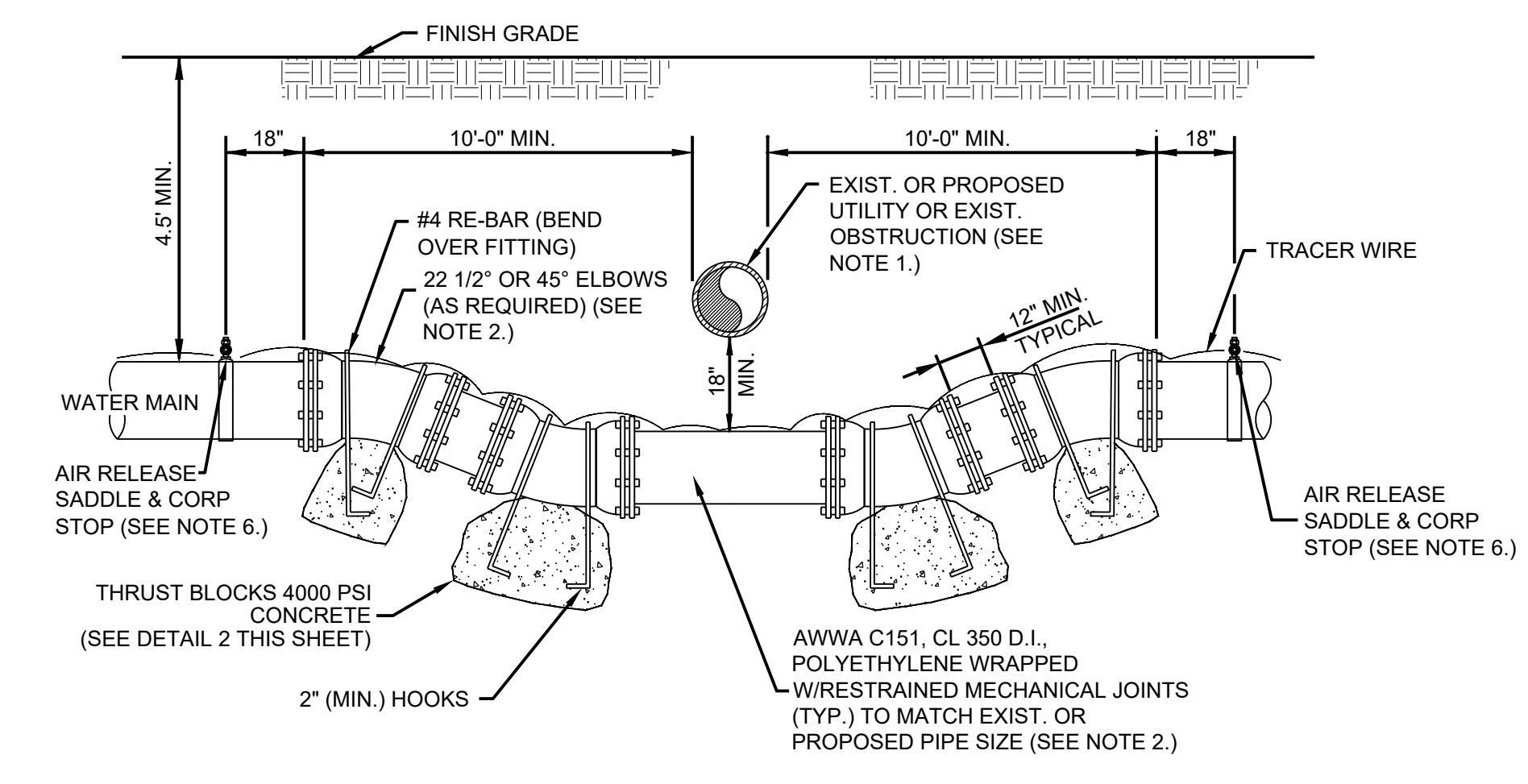


- NOTES:**
- OPERATION NUT SHALL BE 1 1/2" PENTAGON.
  - PAINT CURB RED 15' EITHER SIDE OF THE FIRE HYDRANT.
  - 6" DIAMETER SCHEDULE 40 STEEL BOLLARD GROUTED SOLID WITH CONCRETE. EXTERIOR PAINTED WITH 2 COATS OF 5 MIL (DRY FILM THICKNESS) SAFETY YELLOW.
  - MOUND CONCRETE TO ROUTE WATER AWAY FROM POLE. PROVIDE 1" ELEVATION DROP FROM POLE TO EXTERIOR OF CONCRETE COLLAR.
  - ALL JOINTS BETWEEN VALVE AND 90° ELBOW SHALL BE MECHANICALLY RESTRAINED.

**FIRE HYDRANT**

N.T.S.

2

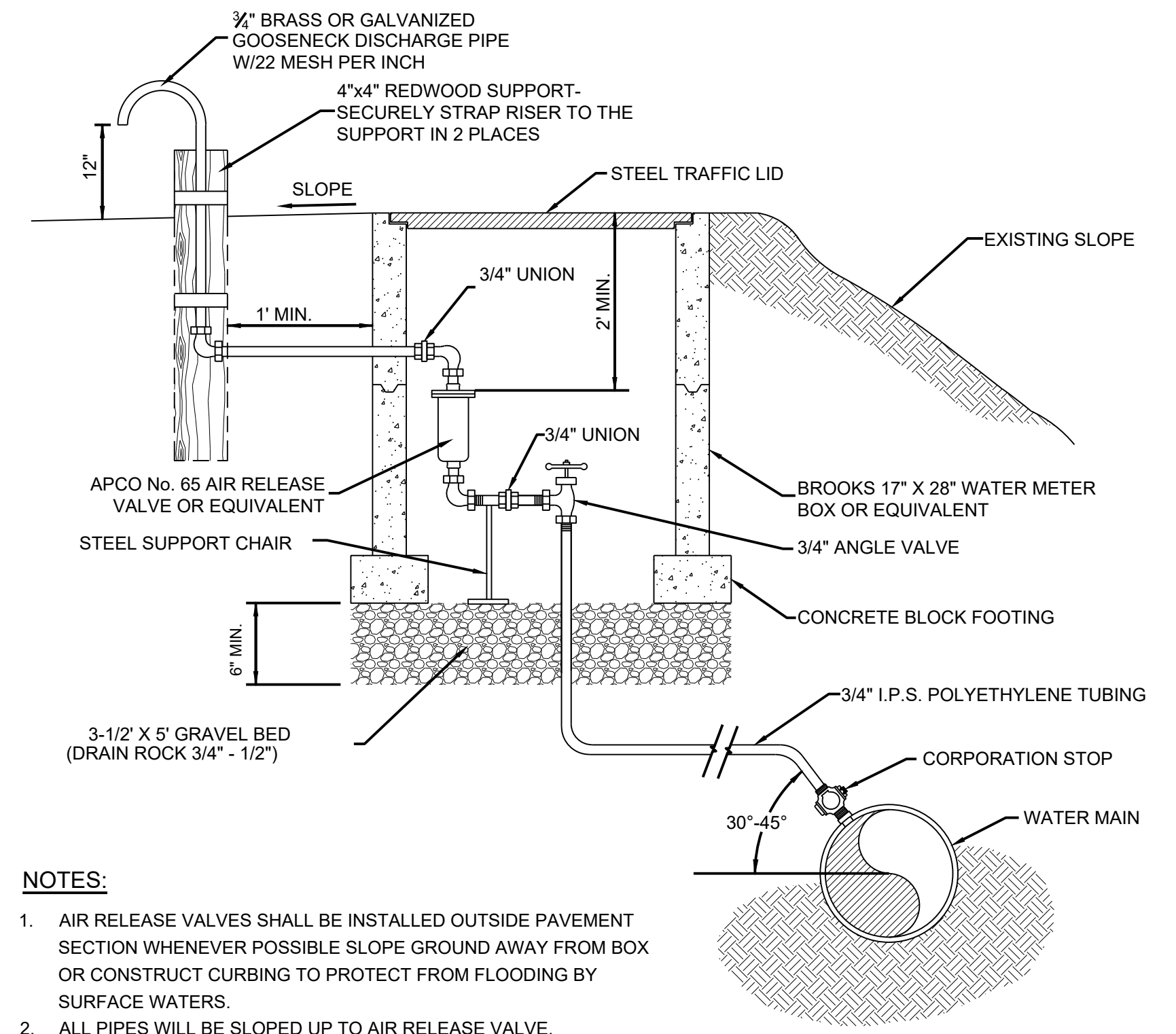


- NOTES:**
- ALL POTABLE WATER CROSSINGS OF EXISTING OR PROPOSED UTILITIES, OR OTHER UNDERGROUND OBSTRUCTION SHALL BE DETAILED BY THE DESIGN ENGINEER, AND SHALL MEET THE CRITERIA OUTLINED BY NAC CHAPTER 445A AND THE NDEP BUREAU OF SAFE DRINKING WATER VERTICAL CROSSING CONFLICTS SUMMARY. FOR PURPOSES OF SEPARATION AND PROTECTION OF THE WATER SUPPLY, RECLAIMED WATER SHALL BE CONSIDERED A SEWER LINE.
  - THE ENTIRE ASSEMBLY SHALL BE INSTALLED USING DUCTILE IRON RESTRAINED MECHANICAL JOINT FITTINGS.
  - ALL NUTS & BOLTS SHALL BE COATED WITH COLD APPLIED WATER BASED ENAMEL OR BLACK ASPHALT (AWWA C509, SEC 4.2.2.8 OR C515, SEC 4.2.2.6)
  - UPON APPROVAL OF CITY OF FALLON ENGINEER OR PUBLIC WORKS DIRECTOR, THE ABOVE ASSEMBLY MAY BE REPLACED WITH A WELDED STEEL "SPOOL" OF EQUIVALENT DIAMETER, PRIMED AND WRAPPED (10 MILS MIN.). CONNECT TO EXISTING LINES USING MECHANICAL JOINTS. STEEL SPOOL SHALL BE CONSTRUCTED BY A CERTIFIED WELDER AND PRESSURE CHECKED IN ACCORDANCE WITH SPECIFICATIONS.
  - CONCRETE FOR THRUST BLOCKS SHALL NOT INTERFERE WITH THE REMOVAL OF BOLTED ASSEMBLIES.
  - AN AIR-RELEASE WITH A POSITIVE GRADE FROM MAIN TO RELEASE, SHALL BE INSTALLED ON BOTH SIDES OF CROSSING (18 INCHES MINIMUM FROM ANY FITTING) UNLESS OTHERWISE NOTED ON THE APPROVED PLANS. ONE AIR-RELEASE MAY BE USED WITH ONE LINE TO EACH SIDE OF CROSSING. SEE DETAIL 4 ON THIS SHEET FOR INSTALLATION.
  - REFERENCE 'GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION', EDITION 1.0 UPDATED JUNE 2018.
  - REFERENCE NAC 445A.67165 SEPARATION OF LINES: SEWER MAIN CROSSING WATER MAIN.

**LOWERING WATER MAIN**

N.T.S.

3

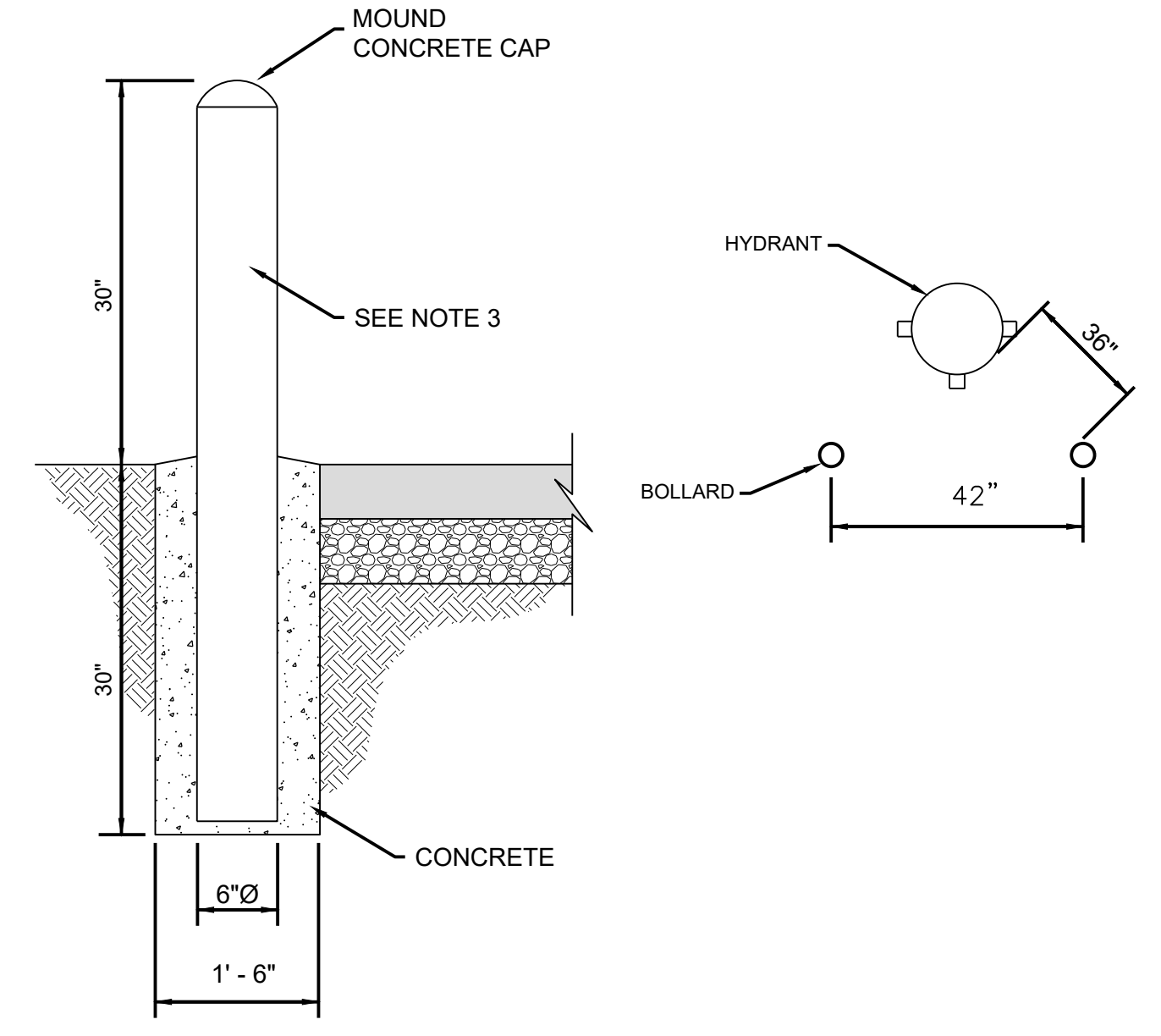


- NOTES:**
- AIR RELEASE VALVES SHALL BE INSTALLED OUTSIDE PAVEMENT SECTION WHENEVER POSSIBLE SLOPE GROUND AWAY FROM BOX OR CONSTRUCT CURBING TO PROTECT FROM FLOODING BY SURFACE WATERS.
  - ALL PIPES WILL BE SLOPED UP TO AIR RELEASE VALVE.

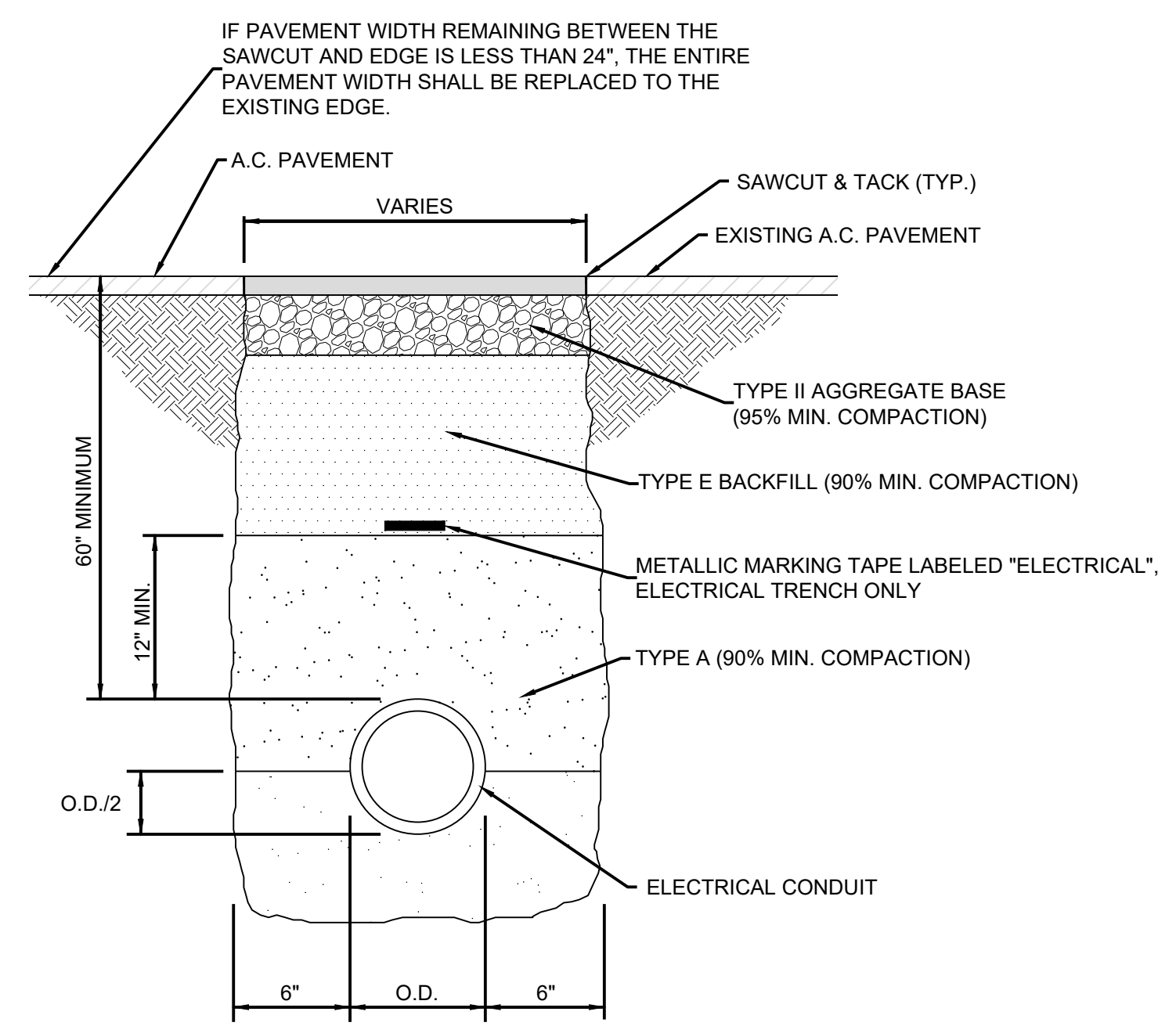
**AIR RELEASE VALVE**

N.T.S.

4



**BOLLARD (REFERENCE PLAN FOR LOCATION)**



**ELECTRICAL CONDUIT**

**TYPICAL ELECTRICAL CONDUIT TRENCH SECTION**

N.T.S.

5



178 SOUTH MAINE ST.  
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INFO@LUMOSINC.COM

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CITY OF FALLON  
 SHERMAN STREET & NORTH BROADWAY  
 STREET REHABILITATION  
 DETAILS  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA

REV.	DATE	DESCRIPTION

**CONFORMED SET**  
 ISSUED FOR CONSTRUCTION  
 SEPTEMBER 9, 2022

BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**C8.4**

DRAWN BY: RHH  
DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

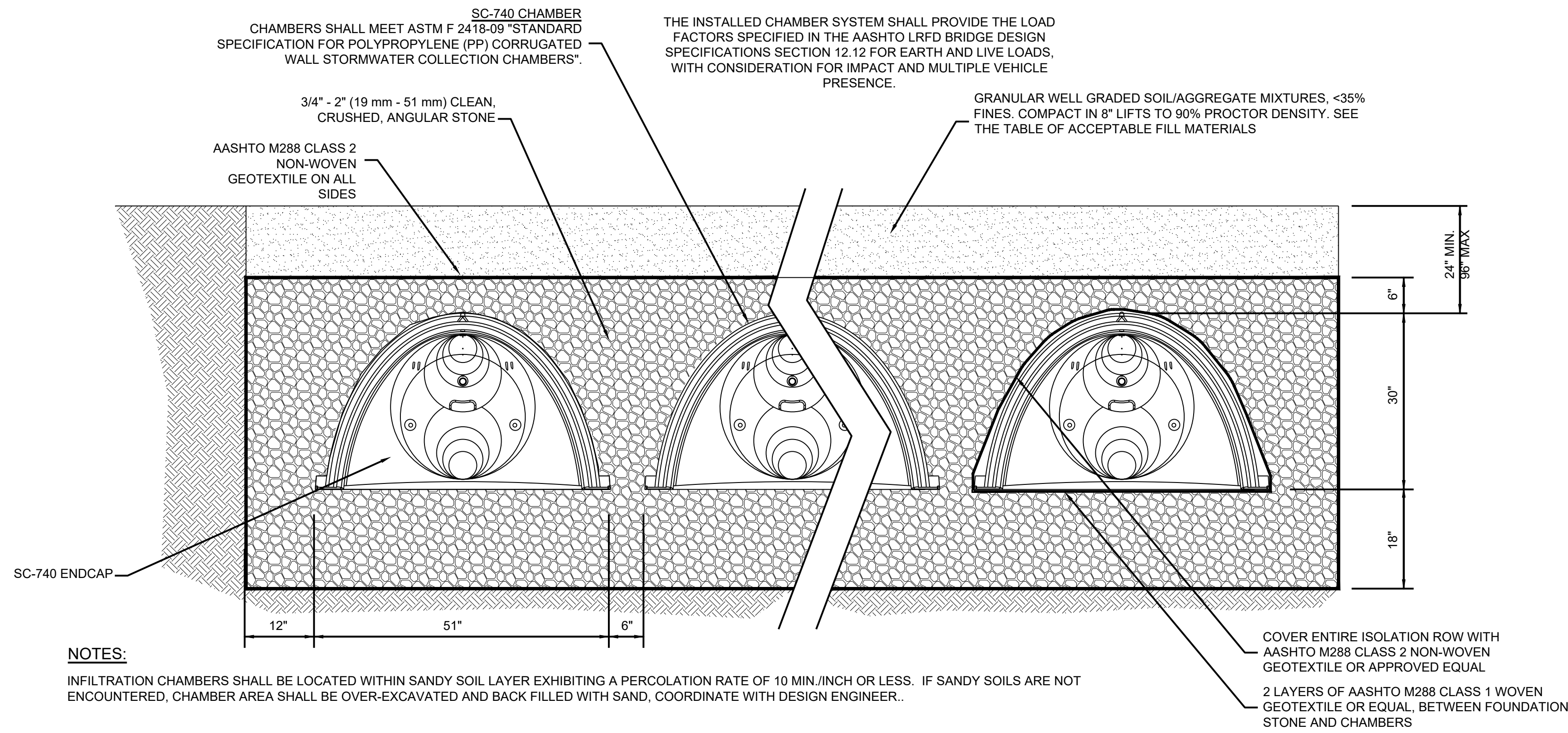
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CITY OF FALLON  
**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION DETAILS**  
NEVADA  
CHURCHILL COUNTY  
CITY OF FALLON

REV.	DATE	DESCRIPTION

BY: \_\_\_\_\_  
 CONFIRMED SET  
 ISSUED FOR CONSTRUCTION  
 SEPTEMBER 9, 2022  
 BAR IS 1 INCH ON ORIGINAL DRAWING  
 0 1  
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**C8.5**  
 DRAWN BY: RHH  
 DESIGNED BY: RHH  
 CHECKED BY: AJG  
 JOB NO.: 10514.000



**SC-740 STORMTECH CHAMBER**

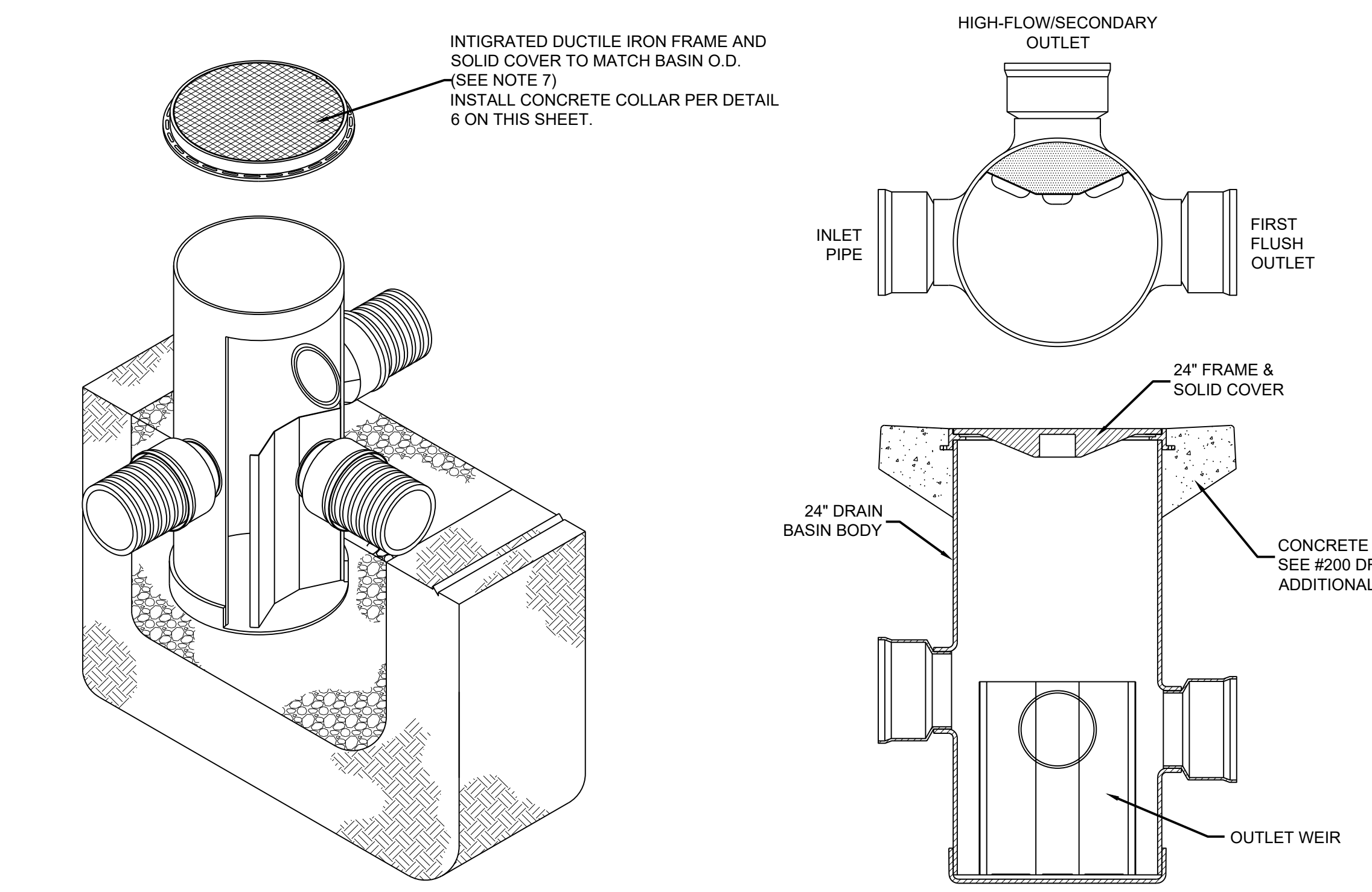
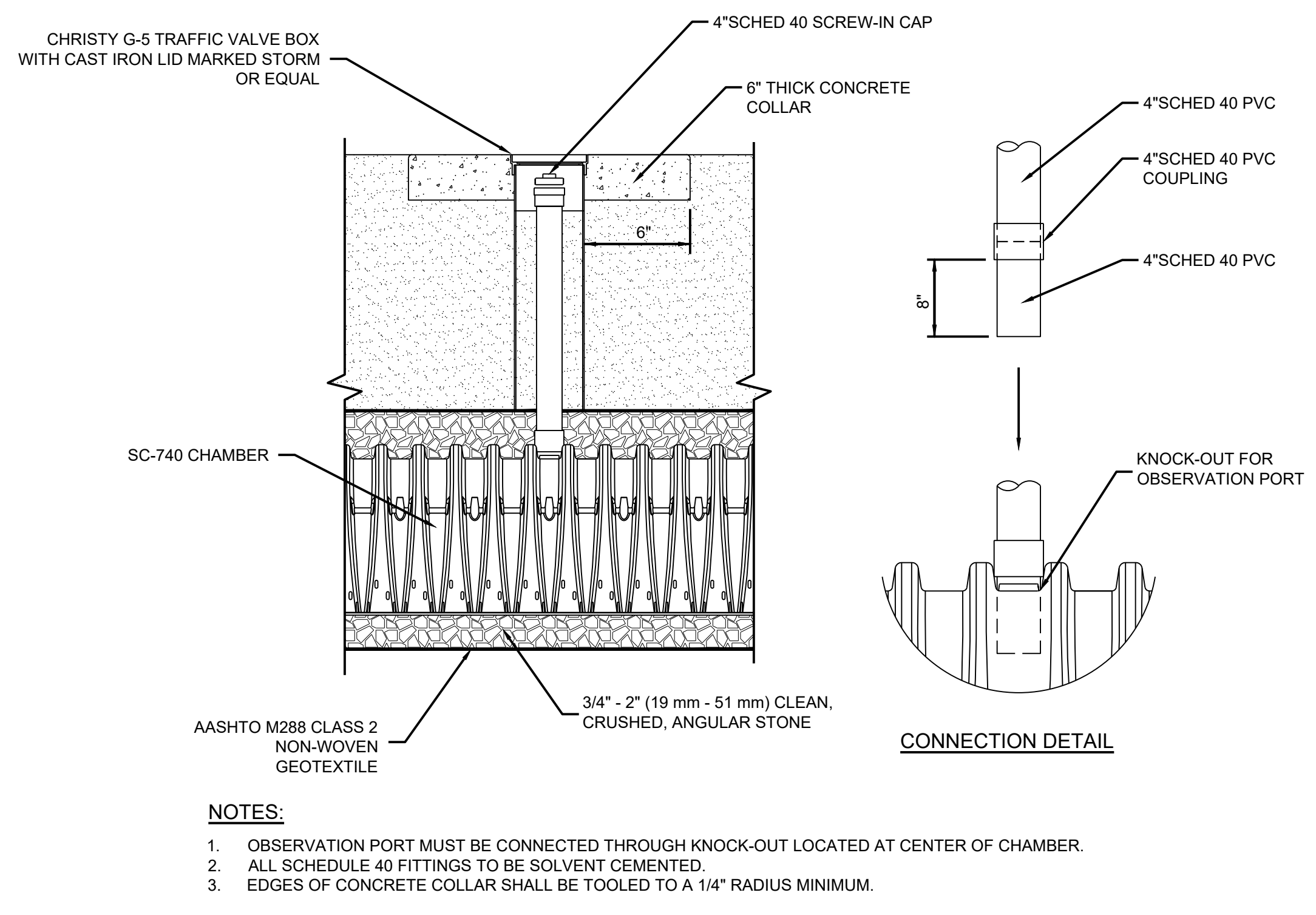
N.T.S.

1

**OBSERVATION PORT**

N.T.S.

2



- NOTES:**
- WEIR AVAILABLE FOR ALL 18" - 30" STRUCTURE OPTIONS (CUSTOM BASIN, ROAD & HIGHWAY, & CURB INLET) 18" WEIR CONSTRUCTION LIMITED - CALL FOR DETAILS.
  - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065.
  - HEIGHT OF WEIR TO BE DETERMINED BY ENGINEER.
  - WEIR CUSTOM MANUFACTURED WITH STAINLESS STEEL TO MINIMIZE LOSS OF OUTLET PIPE OPEN AREA.
  - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
  - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
  - FRAMES, GRATES, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
  - EDGES OF CONCRETE COLLAR SHALL BE TOOLED TO A 1/4" RADIUS MINIMUM.

**NYLOPLAST DRAIN BASIN WITH WEIR**

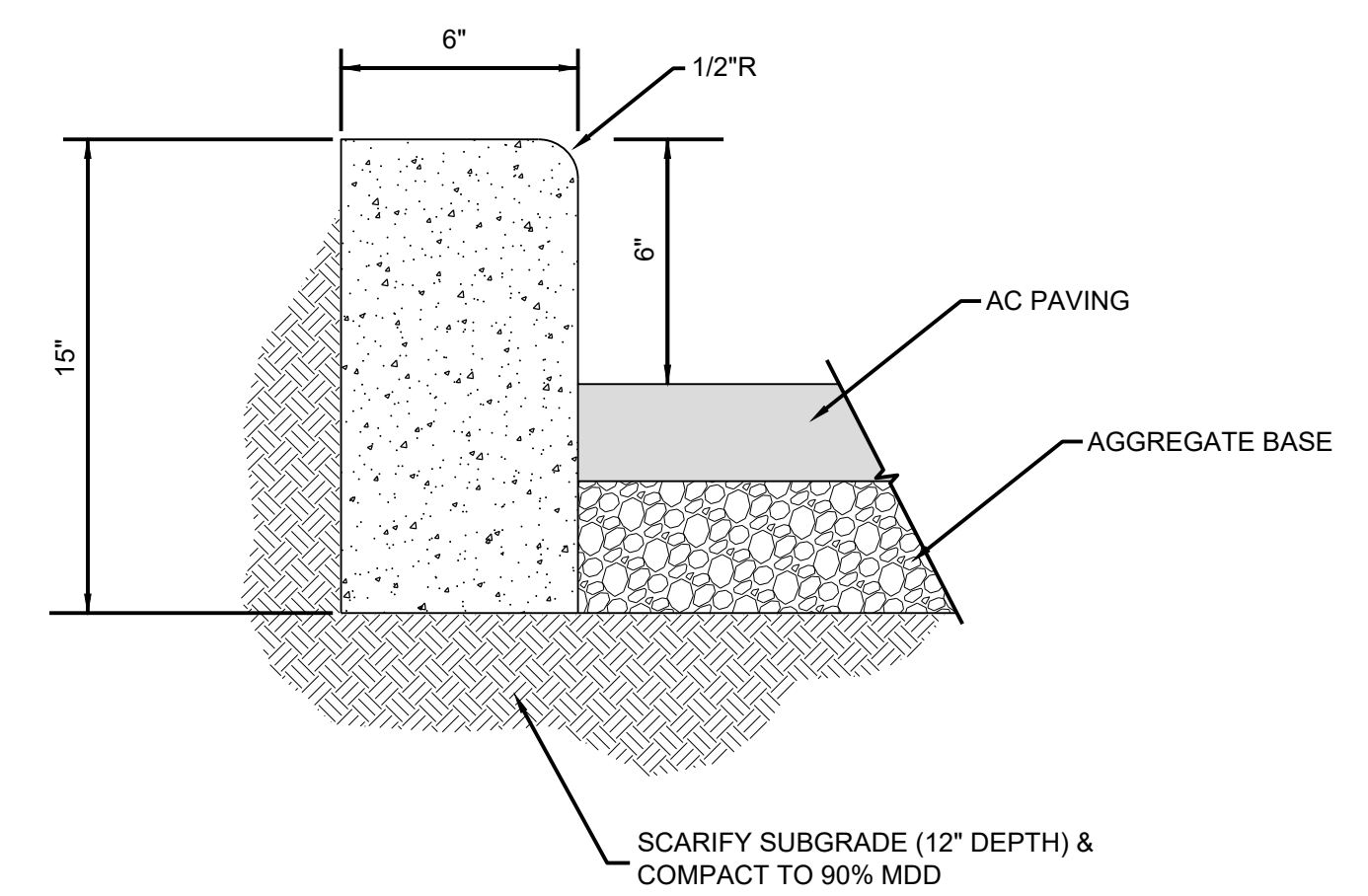
N.T.S.

3

**TYPE I P.C.C. MEDIAN CURB**

N.T.S.

4



- NOTES:**
- ALL P.C.C. MEDIAN CURB SHALL BE FIBER-REINFORCED P.C.C. AND MEET 4,000 PSI MIN. AT 28 DAYS
  - ALL CONCRETE MEDIAN CURB SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
  - AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 CLASS B AGGREGATE BASE AND BE COMPACTED TO A MIN 96% M.D.D.



**SHERMAN STREET & NORTH BROADWAY STREET REHABILITATION DETAILS**

CITY OF FALLON  
CHURCHILL COUNTY  
NEVADA

**CONFORMED SET**  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

REV. DATE DESCRIPTION

BY

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0 1

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**C8.6**

DRAWN BY: RHH  
DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

NEVADA DEPARTMENT OF TRANSPORTATION

CHIEF BRIDGE ENGR. SIGNED ORIGINAL ON FILE

APPROVED 11/19/20

REVISION 10/20/15

ROB CULVERTS SINGLE

SPEC # 502.505

DETAIL NUMBER CH-2B

SPAN, "S"	HEIGHT, "H"	12										14									
		3	4	5	6	7	8	9	10	11	12	7	8	9	10	11	12	13	14		
MAXIMUM EARTH COVER		FT.	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20	
CONC.	ROOF T1	IN.	11	13	11	13	11	13	11	13	11	13	11	13	11	13	11	13	11	13	
	WALLS T2	IN.	10	12	10	12	10	12	10	12	10	12	10	12	10	12	10	12	10	12	
	INVERT T3	IN.	12	15	12	15	12	15	12	15	12	15	12	15	12	15	12	15	12	15	
REINFORCEMENT	BAR SIZE	IN.	4	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	
	SPACING	IN.	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	LENGTH	FT.-IN.	13.4	13.8	13.4	13.8	13.4	13.8	13.4	13.8	13.4	13.8	13.4	13.8	13.4	13.8	13.4	13.8	13.4	13.8	
REINFORCEMENT	BAR SIZE	IN.	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	SPACING	IN.	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	LENGTH	FT.-IN.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
REINFORCEMENT	BAR SIZE	IN.	5	7	5	7	5	7	5	7	5	7	5	7	5	7	5	7	5	7	
	SPACING	IN.	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	LENGTH	FT.-IN.	5.7	6.1	5.7	6.1	5.7	6.1	5.7	6.1	5.7	6.1	5.7	6.1	5.7	6.1	5.7	6.1	5.7	6.1	
REINFORCEMENT	BAR SIZE	IN.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	SPACING	IN.	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	LENGTH	FT.-IN.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
QUANT.	CONCRETE	C.F./L.F.	13.2	14.6	14.6	15.9	15.9	15.6	16.9	16.9	18.3	18.3	19.6	19.6	17.9	17.9	19.2	19.2	20.6	20.6	
	REINFORCEMENT	LB./L.F.	81	90	88	97	95	104	99	106	106	113	113	119	119	128	128	143	143	158	158

NEVADA DEPARTMENT OF TRANSPORTATION

CHIEF BRIDGE ENGR. SIGNED ORIGINAL ON FILE

APPROVED 11/19/20

REVISION 10/20/15

ROB CULVERTS TYPE II HEADWALLS

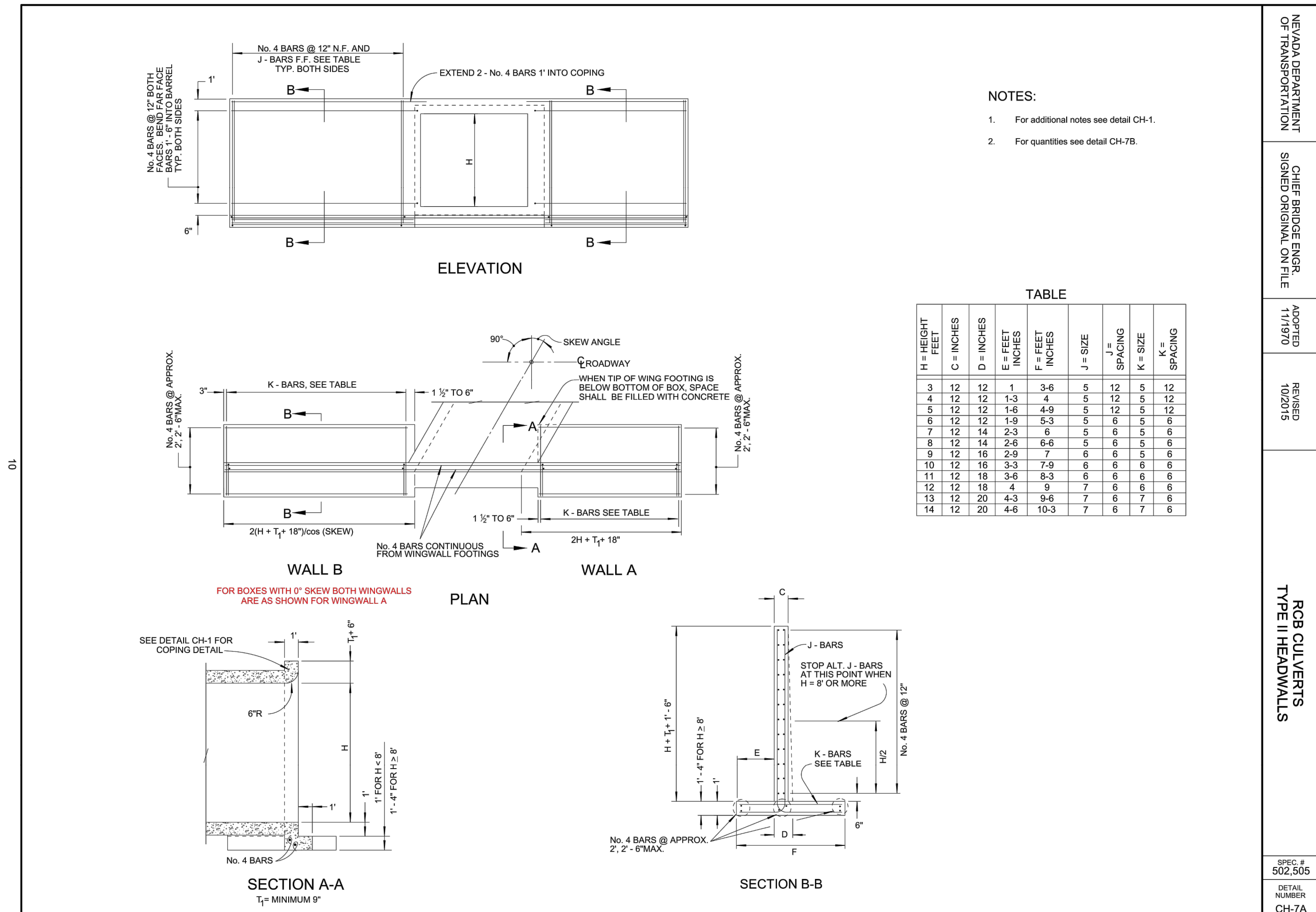
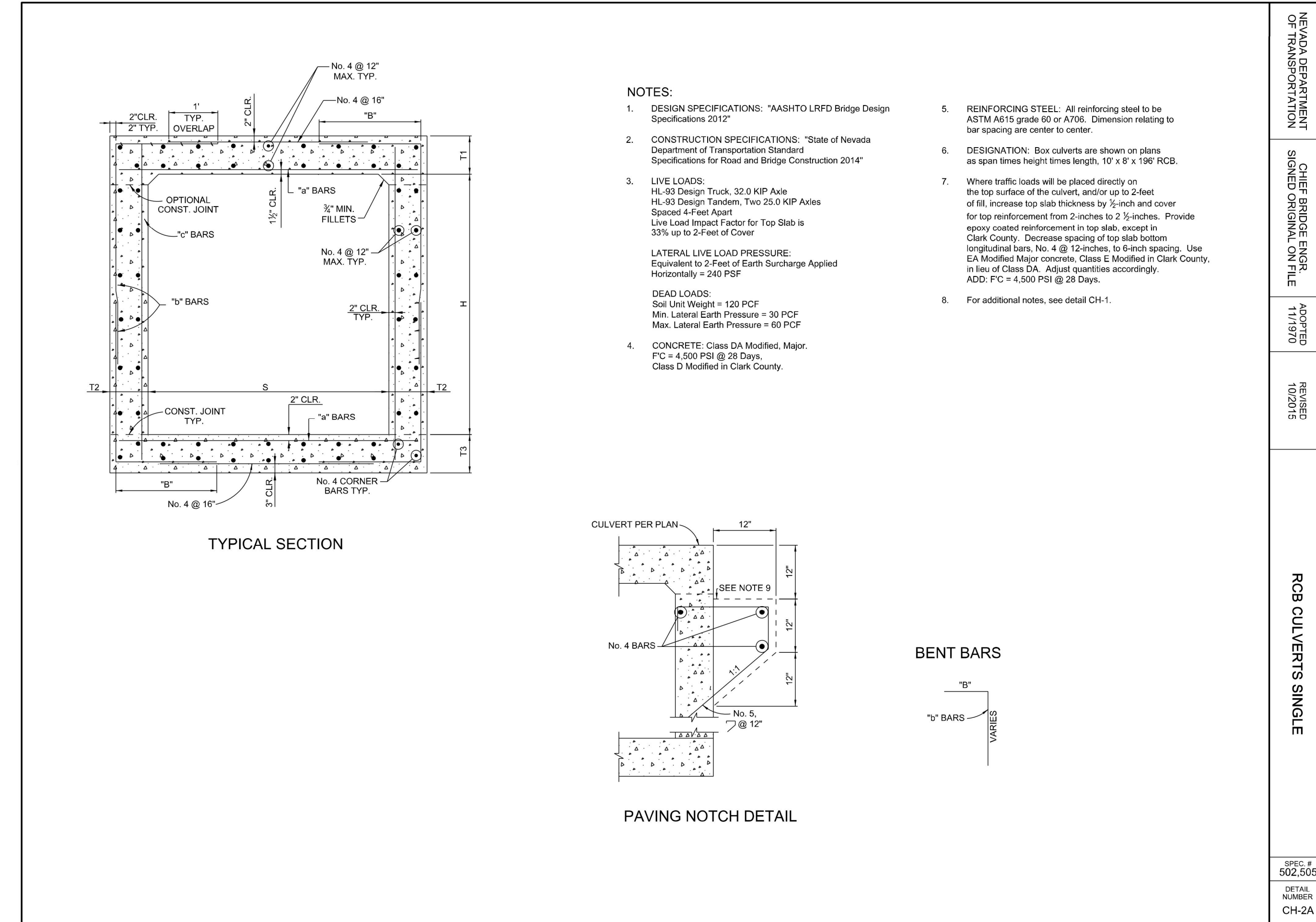
SPEC # 502.505

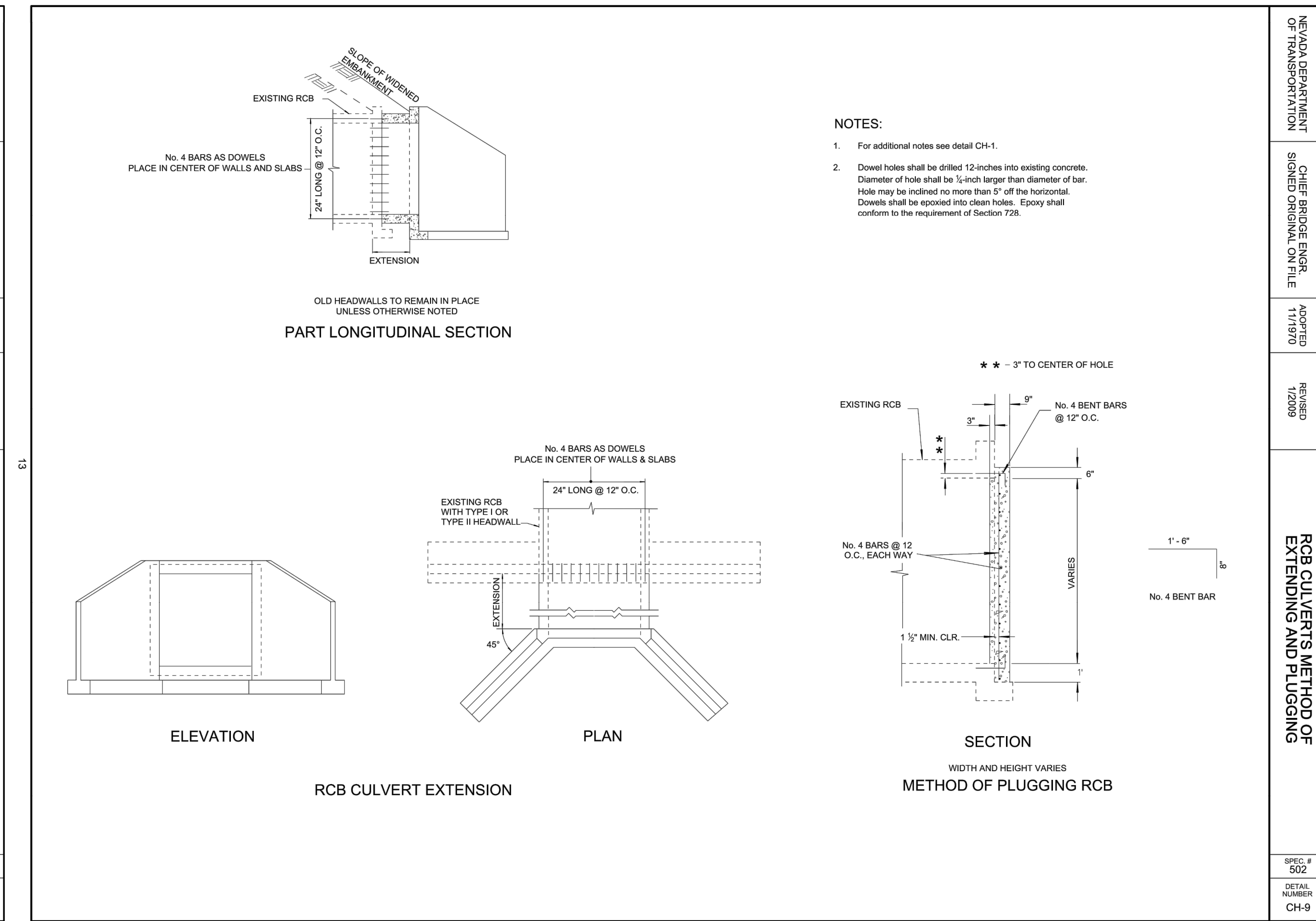
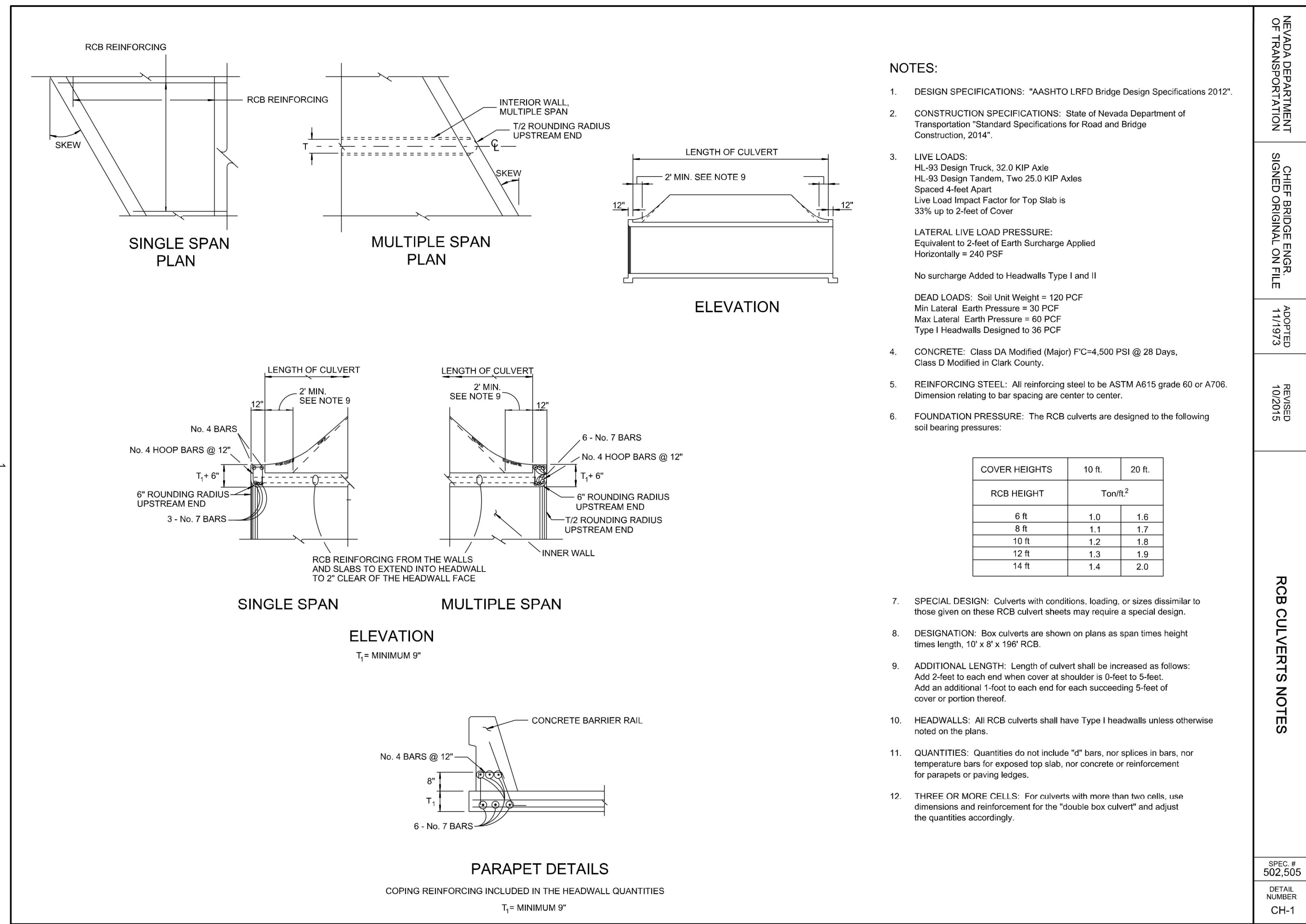
DETAIL NUMBER CH-7B

NOTES:

Quantities shown are cubic yards of concrete and pounds of reinforcing for two headwalls at the inlet and outlet.

SPAN	HEIGHT	SINGLE BOX				DOUBLE BOX				TRIPLE BOX														
		0 SKEW	15 SKEW	30 SKEW	45 SKEW	0 SKEW	15 SKEW	30 SKEW	45 SKEW	0 SKEW	15 SKEW	30 SKEW	45 SKEW											
3	12.28	971.5	12.54	863.7	13.45	1058.2	15.42	1214.4	14.20	1216.6	14.53	1237.5	15.67	1363.1	18.14	1561.1	16.12	1401.1	16.62	1426.4	17.89	1554.2	20.86	1621.9
4	17.33	1359.4	17.69	1374.3	18.91	1502.6	21.55	1690.2	19.26	1604.6	19.68	1628.2	21.13	1765.7	24.27	2037.0	21.18	1739.0	21.67	1819.1	23.35	1968.7	26.99	2227.8
5	23.47	1822.1	23.94	1865.1	25.54	1991.1	29.00	2258.5	25.40	2067.3	25.93	2138.9	27.76	2274.2	31.72	2605.2	27.32	2251.7	27.92	2329.8	29.88	2487.1	34.44	2866.1
6	31.21	3276.9	31.82	3350.2	33.90	3596.6	38.45	4092.2	33.47	3564.2	34.16	3647.6	36.52	3926.5	41.63	4456.6	35.73	3781.1	36.51	3872.3	39.13	4175.1	44.63	4765.4
7	41.74	4287.7	42.56	4373.9	45.29	4665.0	51.25	5303.4	44.34	4617.1	45.24	4715.0	48.29	5045.4	54.93	5769.3	46.94	4866.6	47.94	4973.3	51.30	5333.5	58.80	6122.2
8	54.49	5629.9	55.00	5696.4	58.49	6349.9	66.19	7206.6	57.43	6255.9	58.24	6341.1	61.11	6693.2	68.04	7406.6	58.44	6404.4	59.44	6044.4	63.09	6733.3	73.09	7866.6
9	69.12	7266.6	72.12	7456.6	76.12	8166.6	84.12	9166.6	74.12	8166.6	75.12	8266.6	78.12	8566.6	84.12	9166.6	74.12	8166.6	75.12	8266.6	78.12	8566.6	84.12	9166.6
10	85.12	8966.6	88.12	9266.6	93.12	10066.6	101.12	11166.6	91.12	10166.6	92.12	10266.6	95.12	10566.6	101.12	11166.6	91.12	10166.6	92.12	10266.6	95.12	10566.6	101.12	11166.6
11	102.12	10866.6	105.12	11166.6	110.12	11866.6	118.12	12866.6	108.12	11866.6	109.12	11966.6	112.12	12266.6	118.12	12866.6	108.12	11866.6	109.12	11966.6	112.12	12266.6	118.12	12866.6
12	120.12	12866.6	123.12	13166.6	128.12	13866.6	136.12	14866.6	126.12	13866.6	127.12	13966.6	130.12	14266.6	136.12	14866.6	126.12	13866.6	127.12	13966.6	130.12	14266.6	136.12	14866.6
13	139.12	14966.6	142.12	15266.6	147.12	15566.6	152.12	16266.6	142.12	15266.6	143.12	15366.6	146.12	15666.6	152.12	16266.6	142.12	15266.6	143.12	15366.6	146.12	15666.6	152.12	16266.6
14	159.12	17166.6	162.12	17466.6	167.12	17766.6	172.12	18466.6	162.12	17466.6	163.12	17566.6	166.12	17866.6	172.12	18466.6	162.12	17466.6	163.12	17566.6	166.12	17866.6	172.12	18466.6



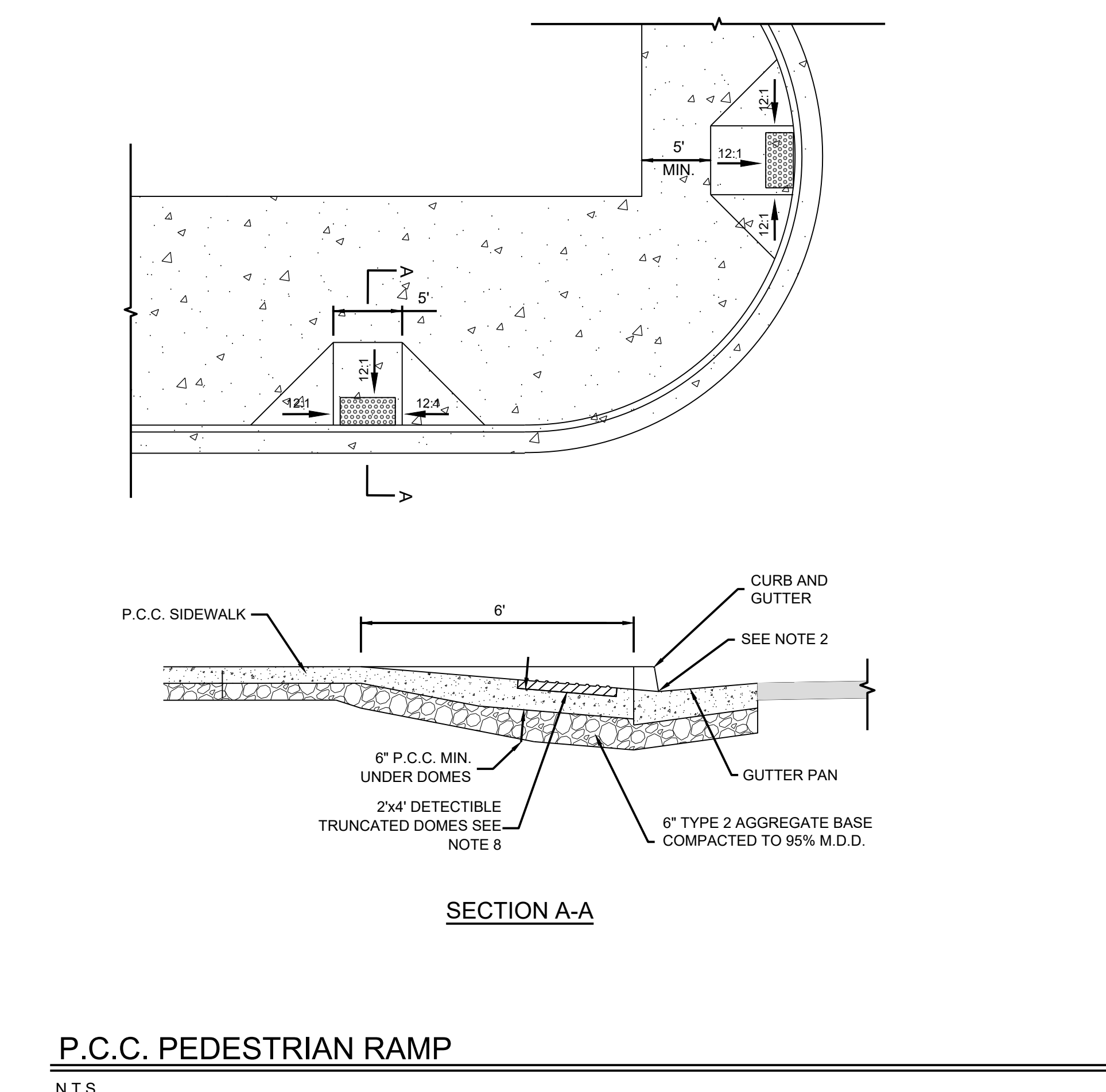
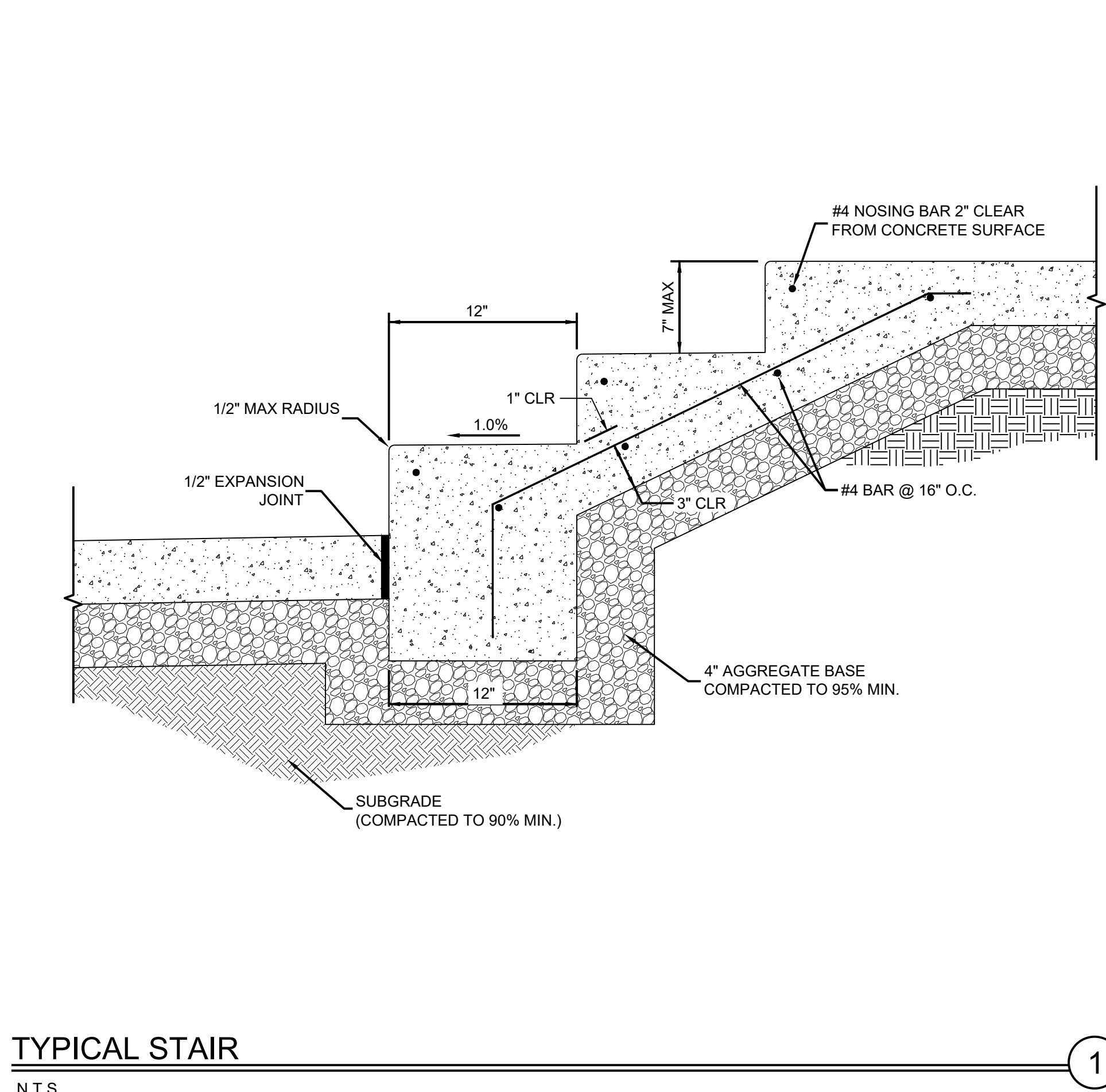


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CITY OF FALLON  
 SHERMAN STREET & NORTH BROADWAY  
 STREET REHABILITATION  
 DETAILS  
 CITY OF FALLON  
 CHURCHILL COUNTY  
 NEVADA



**GENERAL NOTES:**

- GRATINGS OR SIMILAR ACCESSES SHALL NOT BE LOCATED IN AREA AT THE BASE OF THE CURB RAMP OR LANDING AREA.
- NO LIP SHALL BE PERMITTED AT THE CURB RAMP SLOPE TO GUTTER PAN.
- A.C. PAVING SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP, AND FEATHERED AT 12:1 IN LINE WITH THE SIDEWALK.
- ROUGH BROOM TEXTURE ON CURB RAMPS AND WINGS. TEXTURE SHALL PROVIDE A VISUAL CONTRAST TO THE SIDEWALK.
- ALL RAMPS SHALL BE 12:1 OR FLATTER.
- RAMP LENGTH SHALL BE 6" MINIMUM (TYP. U.N.O.) REFERENCE PLAN FOR RAMP LONGER THAN 6".
- ALL SLOPE RATES ARE RELATIVE TO LEVEL.
- DETECTABLE WARNING SHALL BE CONSTRUCTED WITH RED 'ARMORCAST WET SET PANEL' (OR APPROVED EQUAL) AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. CONCRETE DEPTH UNDER TRUNCATED DOMES SHALL BE 6" THICK MINIMUM.
- NO LIP SHALL BE PERMITTED AT THE CURB RAMP SLOPE TO THE GUTTER PAN.
- GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
- FIBER REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS:
  - 4000 PSI MIN. COMPREHENSIVE STRENGTH AT 28 DAYS.
  - 6 SACKS OF CEMENT PER CUBIC YARD MAX.
  - WATER-CEMENT RATION OF 0.45
  - AIR ENTRAINMENT 6% ±1.5%
  - SLUMP AT 1 TO 4 INCHES.

REV.	DATE	DESCRIPTION	BY

CONFIRMED SET  
ISSUED FOR CONSTRUCTION  
SEPTEMBER 9, 2022

BAR IS 1 INCH ON ORIGINAL DRAWING  
0 1

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

**C8.7**

DRAWN BY: RHH  
DESIGNED BY: RHH  
CHECKED BY: AJG  
JOB NO.: 10514.000

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