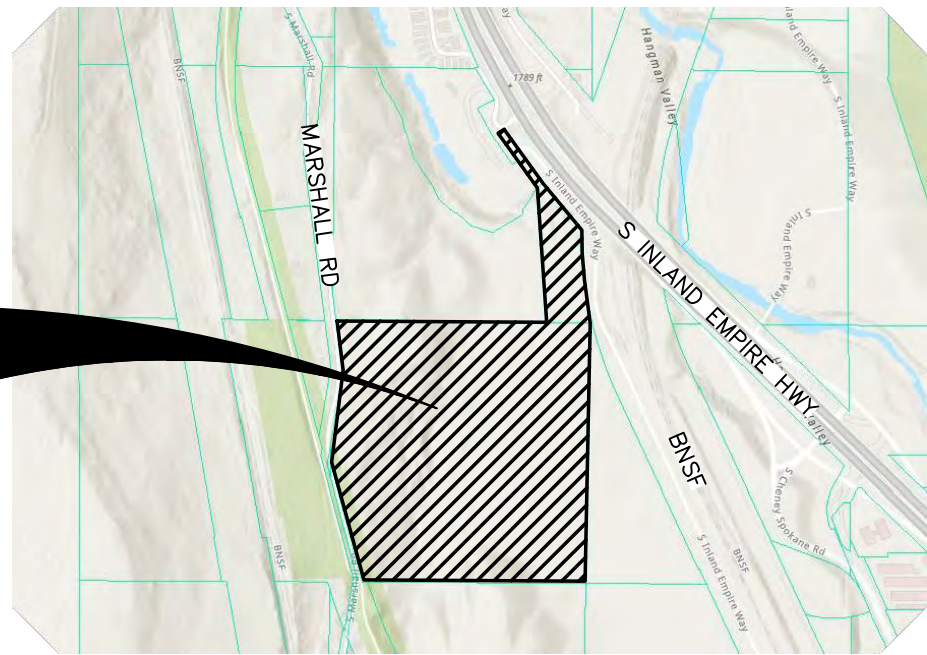


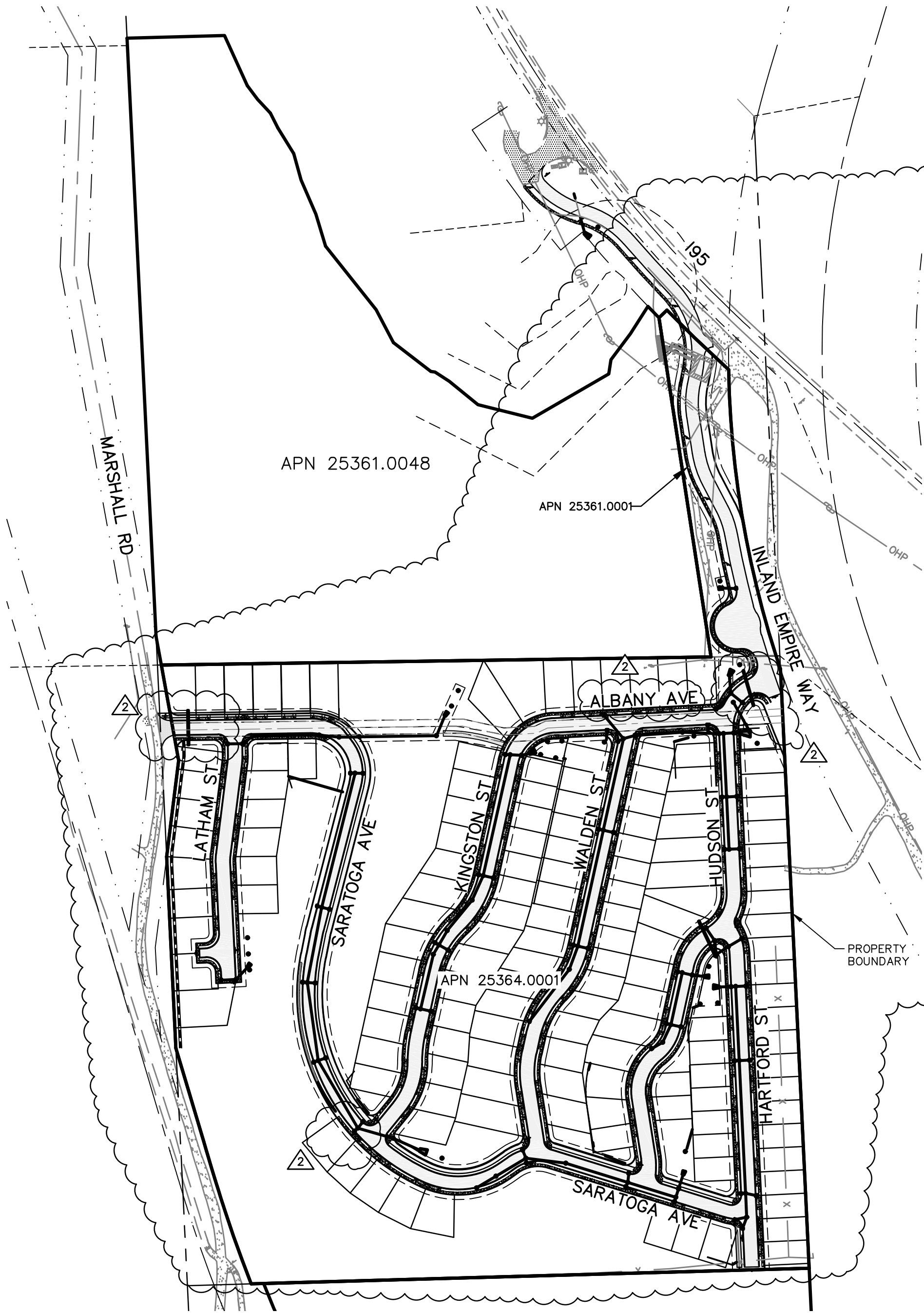
CONSTRUCTION IMPROVEMENTS
LATAH GLEN RESIDENTIAL COMMUNITY

SECTION 36, TOWNSHIP 25 NORTH, RANGE 42 EAST, W.M.,
CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON

PROJECT
AREA



VICINITY MAP



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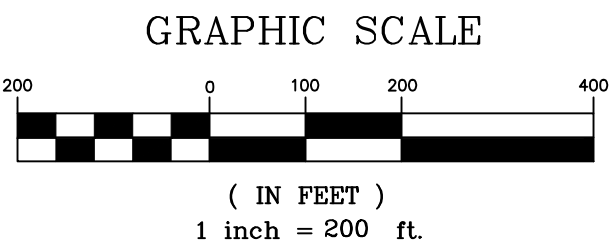
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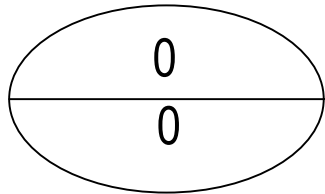
- △ SHEET NO. 1 - WATERLINE COVER
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- SHEET NO. 2 - LA-1.0 LANDSCAPE PLAN - NORTH HALF
- SHEET NO. 3 - LA-1.1 LANDSCAPE PLAN - SOUTH HALF
- SHEET NO. 4 - LA-2.0 BLOW-UP PLANS OF BUFFERS
- SHEET NO. 5 - LA-2.1 BLOW-UP PLANS OF SHRUB AREAS
- SHEET NO. 6 - LA-3.0 STANDARD DETAIL AND NOTES
- SHEET NO. 7 - CITY OF SPOKANE DETAILS AND NOTES



PRELIMINARY
NOT FOR
CONSTRUCTION
FOR REGULATORY REVIEW ONLY



REVISIONS					NAVD88 = ESTABLISHED FROM GPS					SE#19-342					p 509.242.1000 f 509.242.1001					PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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CALL BEFORE YOU DIG 1-800-424-5555

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL SEWER AND WATER IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (CITY, COUNTY, OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND MADE AVAILABLE TO THE CITY OF SPOKANE PUBLIC WORKS INSPECTOR AT ALL TIMES.
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF SPOKANE COUNTY.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 10:00 P.M. WEEKDAYS, 9:00AM AND 10:00PM WEEKENDS, UNLESS OTHERWISE APPROVED BY THE COUNTY.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.
- STATIONING AND OFFSET IS BASED ON STATIONING FOR THE REFERENCED STREET ALIGNMENT.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEED PRIOR TO CONSTRUCTION. COORDINATE WITH APPLICABLE UTILITY COMPANY.
- RESTRAINTS SHALL BE INSTALLED ON ALL PRESSURE PIPELINES IN ACCORDANCE WITH CITY OF SPOKANE STANDARDS. REFER TO RESTRAINED JOINT TABLE ON THESE PLANS.
- INSTALL TREE PROTECTION AT THE WEST EDGE OF THIS PROPERTY TO PROTECT ALL EXISTING TREES IN THE PUBLIC RIGHT OF WAY ALONG MARSHALL ROAD PER CITY OF SPOKANE TREE PROTECTION SPECIFICATIONS AND DETAIL PRIOR TO ANY MORE EXCAVATION WORK FOR THE WALL ALONG THIS AREA. FENCING TO REMAIN INTACT THROUGHOUT ALL PHASES OF DEMOLITION AND CONSTRUCTION.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO ENSURE THE ABOVE REQUIREMENTS ARE MET. THE CITY MAY SEEK RESTITUTION AT TREBLE THE APPRAISED TREE VALUE FOR DAMAGES TO ANY TREES IN THE PUBLIC RIGHT OF WAY DUE TO CONSTRUCTION ACTIVITIES/EQUIPMENT AND FOR ANY RIGHT OF WAY TREES THAT ARE REMOVED WITHOUT UF PERMISSION

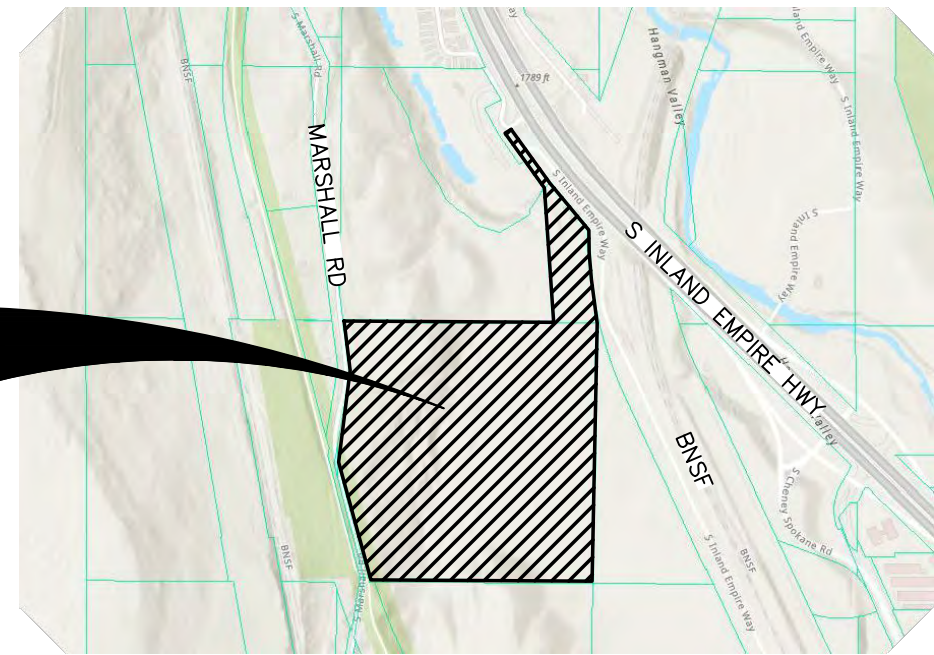
STREET & STORM DRAINAGE NOTES

- REFER TO CONSTRUCTION NOTES AND DETAILS SHOWN ON DETAIL SHEET.
- REFER TO LANDSCAPE DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING PLANTINGS, IRRIGATION SYSTEM, SITE FURNITURE, LANDSCAPE BERMS, STEPS, AND LANDSCAPE WALLS.
- REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING ANY STEPS IN FINISH FLOOR, BASEMENT ELEVATION, AND EXTERIOR DOOR LOCATIONS. COORDINATE ARCHITECTURAL ELEVATIONS WITH SITE GRADING.
- MAINTAIN AT LEAST 3 FEET OF COVER OVER STORM DRAIN PIPES, UNLESS DUCTILE IRON. FOR DUCTILE IRON MAINTAIN AT LEAST 1 FOOT OF COVER.
- SPOT ELEVATIONS REPRESENT FINISH SURFACE GRADES.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES. CONTRACTOR TO PERFORM NECESSARY FIELD VERIFICATION, INCLUDING SUBSURFACE EXPLORATION, FOR ALL EXISTING CONDITIONS TO BE INCLUDED IN CONTRACTOR BID. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- ADJUST ALL EXISTING UTILITY COVERS TO FINISHED GRADE AS NECESSARY.
- ALL MATERIALS, WORKMANSHIP, TESTING AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE WASHINGTON STATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, THE CITY OF SPOKANE STANDARDS, AND THE CITY OF SPOKANE SPECIAL PROVISIONS FOR PRIVATE CONTRACTS.
- ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF SPOKANE SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. AN OBSTRUCTION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE CITY RIGHT-OF-WAY. IF APPLICABLE, A TRAFFIC CONTROL PLAN, (INCLUDING PEDESTRIAN TRAFFIC CONTROL FOR SIDEWALK CLOSURES) WILL BE REQUIRED WITH THE OBSTRUCTION PERMIT APPLICATION.
- THE CONTRACTOR SHALL PLACE MARKING TAPE IN THE EXCAVATION TRENCH AT MID-DEPTH LOCATION FOR ALL UNDERGROUND SIDE SERVICE INSTALLATIONS FOR THE PURPOSE OF ALERTING ANY FUTURE EXCAVATION IN THE SPECIFIC AREA.
- NO REVISIONS SHALL BE MADE TO THE PLANS WITHOUT APPROVAL FROM THE CITY OF SPOKANE AND THE DESIGN ENGINEER OF RECORD.
- STORMWATER FACILITIES, INCLUDING DRYWELLS, CB'S, PIPES, AND INFILTRATION GALLERIES, MUST BE CONSTRUCTED UNDER SUPERVISION OF THE WASTEWATER MANAGEMENT DIVISION. STORMWATER TREATMENT FACILITIES (208 SWALES) SHALL BE INSPECTED PRIOR TO PLACEMENT OF TOPSOIL, PLANTINGS, OR GRASS. THE CONTRACTOR SHALL CONTACT THE WASTEWATER MAINTENANCE DIVISION OFFICE AT (509) 625-7905 OR (509) 625-7912 IN ORDER TO ARRANGE A MUTUALLY AGREEABLE INSPECTION SCHEDULE.
- ALL SIDEWALKS, CURBS, AND DRIVEWAY APPROACHES ADJACENT TO THE PROPERTY WILL BE REVIEWED AT THE END OF THE PROJECT WHEN A CERTIFICATE OF OCCUPANCY IS REQUESTED. IF ANY ARE FOUND TO BE BROKEN, HEAVED, SUNKEN, OR MISSING, THEY MUST BE REPAIRED/REPLACED WHETHER THE DAMAGE WAS EXISTING OR CAUSED BY CONSTRUCTION. IF YOU WOULD LIKE A SIDEWALK INSPECTION PRIOR TO REQUESTING OCCUPANCY, PLEASE CONTACT THE CITY OF SPOKANE AT (509) 625-6300 TO ARRANGE A SITE VISIT.
- PROPERTY LINES OF SUBJECT PROPERTY HAVE BEEN VERIFIED BY A BOUNDARY SURVEY.
- CONTRACTOR TO REMOVE AND LEGALLY DISPOSE ALL EXISTING TREES THAT CONFLICT WITH PROPOSED IMPROVEMENTS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR SIGN REMOVAL, MAINTENANCE, AND NEW SIGN INSTALLATION DURING CONSTRUCTION.
- REFER TO TABLE 6-1 IN THE SPOKANE REGIONAL STORMWATER MANUAL FOR TREATMENT SOIL CRITERIA.
- ALL PAVEMENT CUTS MUST CONFORM TO THE SPOKANE REGIONAL PAVEMENT CUT POLICY.
- SEE CITY OF SPOKANE STANDARD PLAN NO. A-5 ON SHEET 20 FOR CITY STANDARDS ON WATER/SEWER CROSSINGS
- CITY OF SPOKANE HYDRANT PERMIT PROGRAM REQUIRES AN RPBA AND FLOW METER ASSEMBLY FOR ALL FIRE HYDRANT WATER USAGE IF NEEDED FOR CONSTRUCTION PHASE OF THE PROJECT (E.G. DUST CONTROL, ETC.). THIS HYDRANT PROGRAM REQUIRES A PERMIT FEE, CONSUMPTION BILLING, AND DEPOSIT FOR THE RPBA & METER ASSEMBLY. PLEASE CALL 311 OR CITY WATER DEPT. AT 509-625-7800 FOR MORE INFO.

STREET AND DRAINAGE IMPROVEMENTS
LATAH GLEN RESIDENTIAL COMMUNITY

SECTION 36, TOWNSHIP 25 NORTH, RANGE 42 EAST, W.M.,
CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON

PROJECT
AREA



VICINITY MAP

STREET AND DRAINAGE SHEET INDEX

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△	△	SHEET NO. 10 - KINGSTON ST & ALBANY AVE ROAD & DRAINAGE PLAN AND PROFILE	△	△	SHEET NO. 22 - RETAINING WALL DETAILS

LEGEND

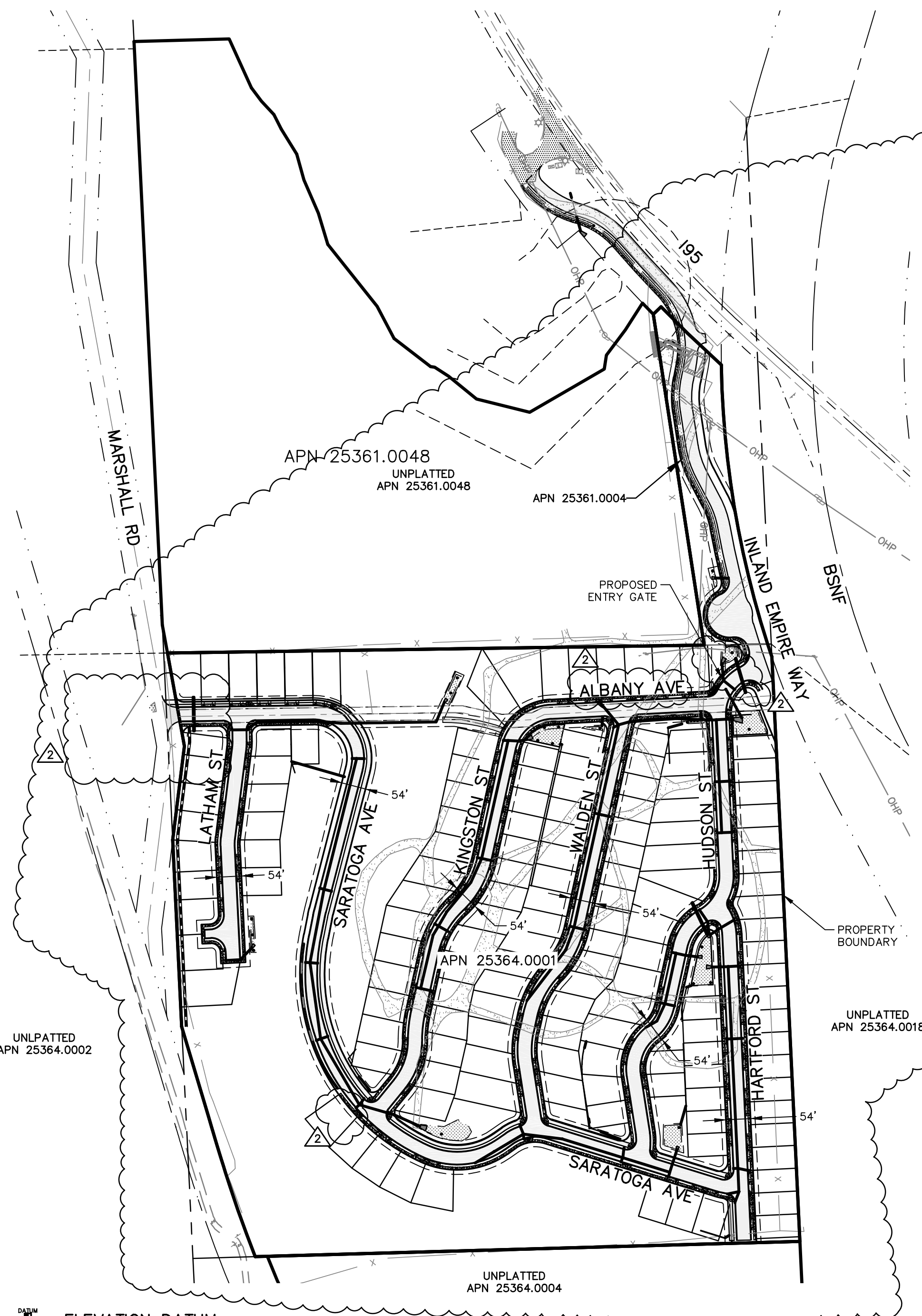
EXISTING FEATURES

	ASPHALT SURFACING
	CURB
	GRAVEL
	SIDEWALK OR CONCRETE
	DRYWELL
	STORM MANHOLE
	CATCH BASIN
	POWER POLE/TELEPHONE POLE
	TELEPHONE ENCLOSURE
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE / CULVERT
	POWER LINE (OHP OR BP)
	TELEPHONE LINE (OHT OR BT)
	GAS LINE
	CONTOURS
	FENCE
	FIBER OPTIC LINE

LEGEND

PROPOSED IMPROVEMENTS

	ASPHALT SURFACING
	CURB
	CONCRETE OR SIDEWALK
	DRYWELL
	STORM MANHOLE
	CONCRETE INLET
	CURB INLET
	POWER POLE
	SIGN
	WATER VALVE
	WATER METER
	FIRE HYDRANT
	WATER SHUTOFF / WATER VAULT
	SANITARY SEWER MANHOLE
	INACTIVE/COMPLETED PHASE
	CLEANOUT (CO)
	GAS METER
	WATER LINE (AS SIZED)
	SLEEVE FOR WATER / SEWER CROSSING
	SANITARY SEWER LINE
	STORM DRAIN LINE / CULVERT
	CONTOURS
	STORM WATER SWALE / POND
	DIRECTION OF SURFACE STORM WATER DRAINAGE
	TOP OF CURB ELEVATION
	FLOWLINE ELEVATION
	CURB INLET
	INLET ELEVATION AT FLOWLINE
	FINISHED GRADE ELEVATION



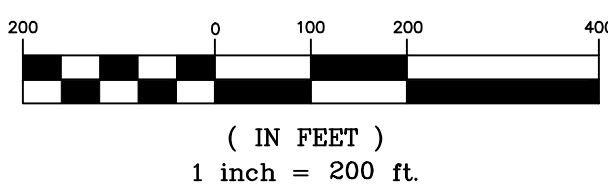
ELEVATION DATUM

NAVD88 ESTABLISHED FROM GPS OBSERVATION ON LOCAL CONTROL POINTS USING THE WASHINGTON STATE REFERENCE NETWORK.

SITE TBM

3" BRASS CAP, WA DNR LOCATED NEAR THE NORTHEAST CORNER OF APN: 25364.0001 ELEVATION: 1822.53

GRAPHIC SCALE



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87			
				CBM NO. :			
				NAVD88 DATUM			
					SCALE IN FEET		
5/14/25	LC	19-342	GENERAL REVISION	1			
10/10/24	LC	19-342	GENERAL REVISION	2			
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1			
DATE	BY	PROJECT	DESCRIPTION				

BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024

PRELIMINARY
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
STREET & DRAINAGE COVER AND INDEX
APN 25361.0001 & 25364.0001

PROJECT LIMITS: LATAH GLEN RESIDENTIAL


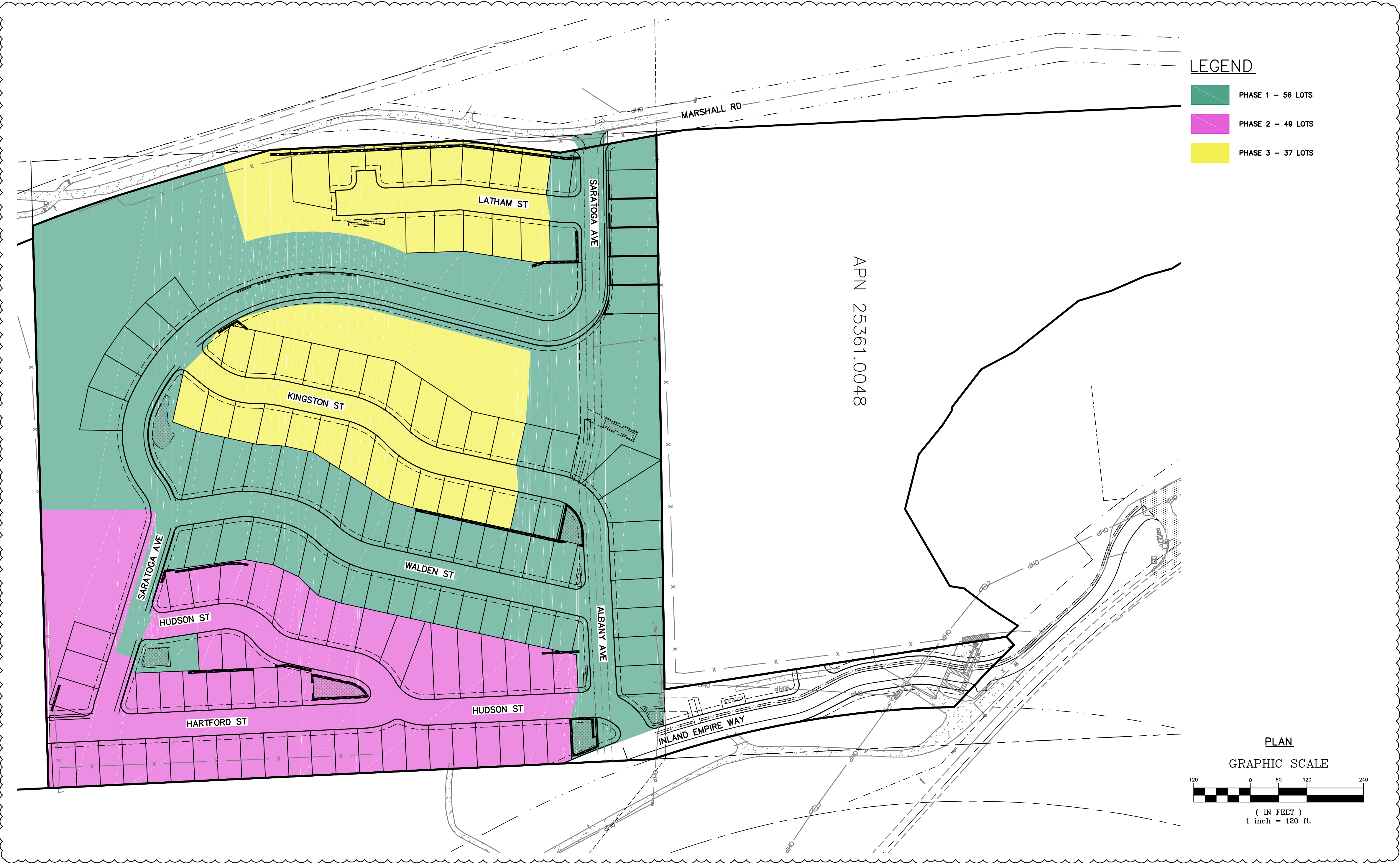
TYPE OF IMPROVEMENT: SITE/DRAINAGE


PROJECT NO. PLAN NO.

2023519/2023520 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

SEC. 36, T. 25 N., R. 42 E., WM



REVISIONS					NAVD88 = ESTABLISHED FROM GPS	
					NAVD88 ELEV. : 1800.20	 <p>BENCH MARK LOCATION: MAG NAIL SET IN PAVEMENT APPROX. 600 FEET NE OF NE CORNER OF SUBJECT PARCEL WEST OF GUARD RAIL OF SOUTHBOUND SR 195</p>
5/14/25	LC	19-342	GENERAL REVISION	3	CBM NO. :	
10/10/24	LC	19-342	GENERAL REVISION	2		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	NAVD88 DATUM	
DATE	BY	PROJECT			DESCRIPTION	SCALE IN FEET SCALE HORIZONTAL SCALE (22 x 34) VERTICAL SCALE (22 x 34)

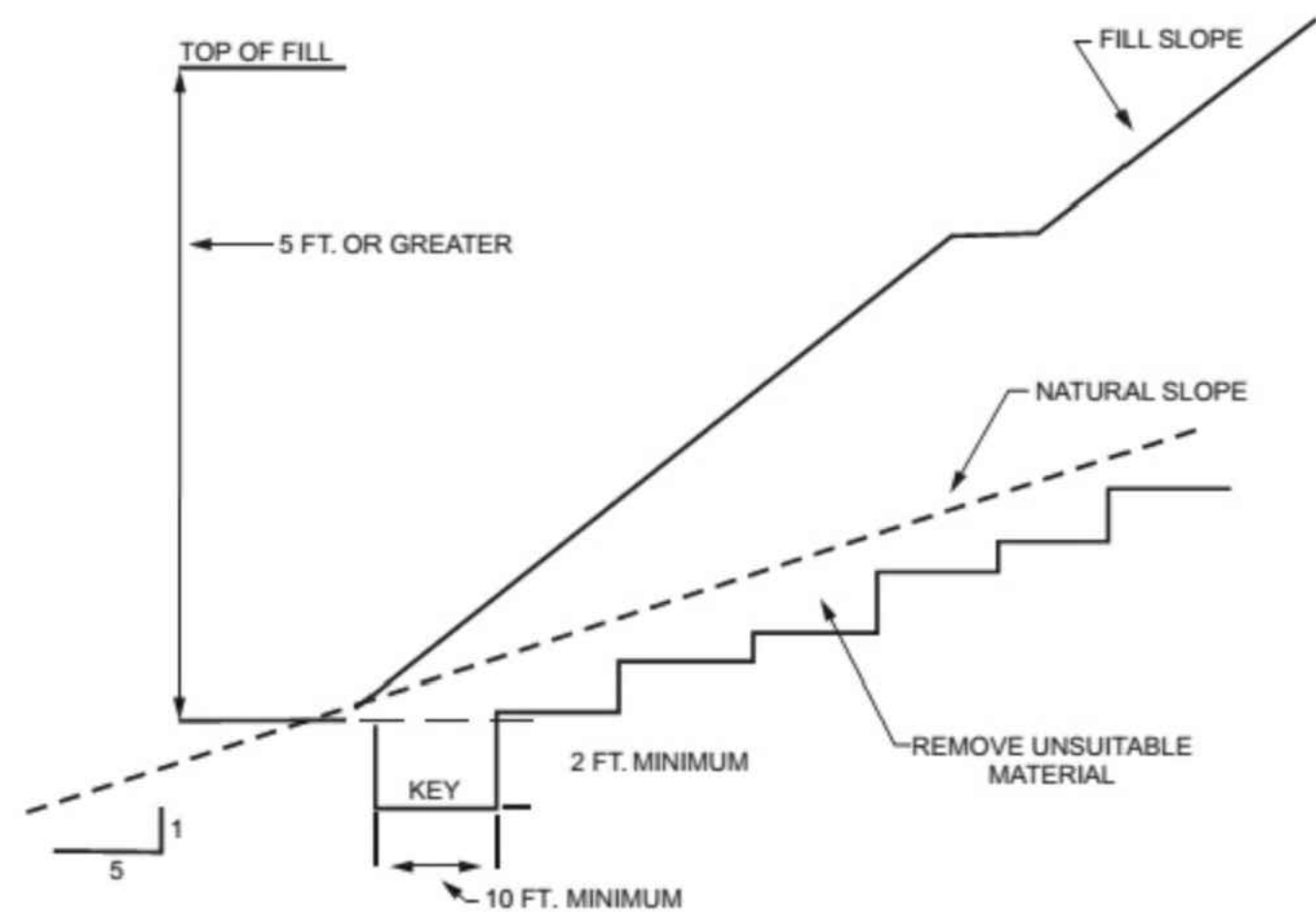
	BY	DATES
DRAWN:	LMC	3/3/2023
APPROVED:	JDS	01/19/2024



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

DATE: 5/09/24			
PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY			
SEGMENT LIMITS: PHASING PLAN APN 25361.0001 & 25364.0001		TYPE OF IMPROVEMENT: SITE/DRAINAGE	
		PROJECT NO.	PLAN NO.
PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023519/2023520	36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



- The terrace should have enough capacity to handle the peak runoff expected from a 2-year, 24-hour design storm without overtopping.
- The terrace cross-section should be proportioned to fit the land slope. The ridge height should include a reasonable settlement factor. The ridge should have a minimum top width of 3 feet at the design height. The minimum cross-sectional area of the terrace channel should be 8 square feet for land slopes of 5 percent or less, 7 square feet for slopes from 5 to 8 percent, and 6 square feet for slopes steeper than 8 percent. The terrace can be constructed wide enough to be maintained using a small cat.

Maintenance Standards

- Maintenance should be performed as needed. Terraces should be inspected regularly; at least once a year, and after large storm events.

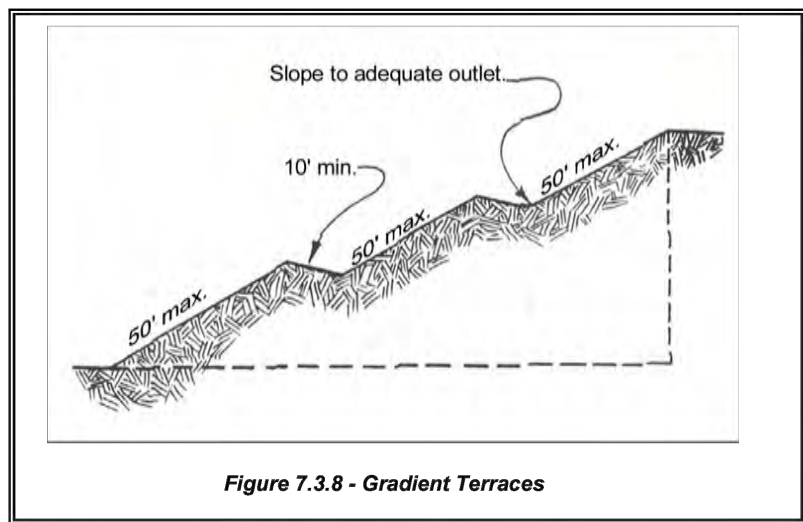


Figure 7.3.8 - Gradient Terraces

TERRACED SLOPE

NTS (TS)

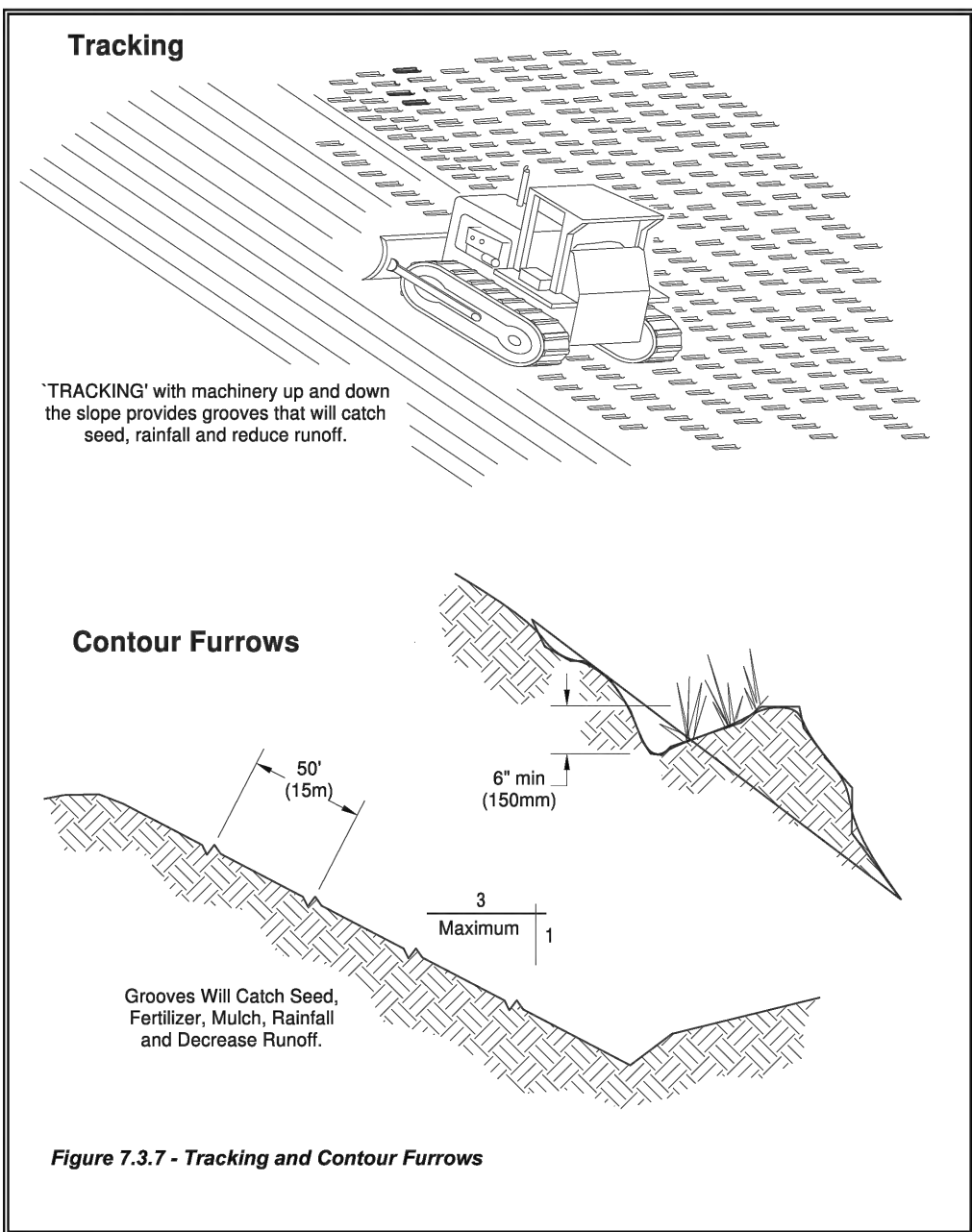
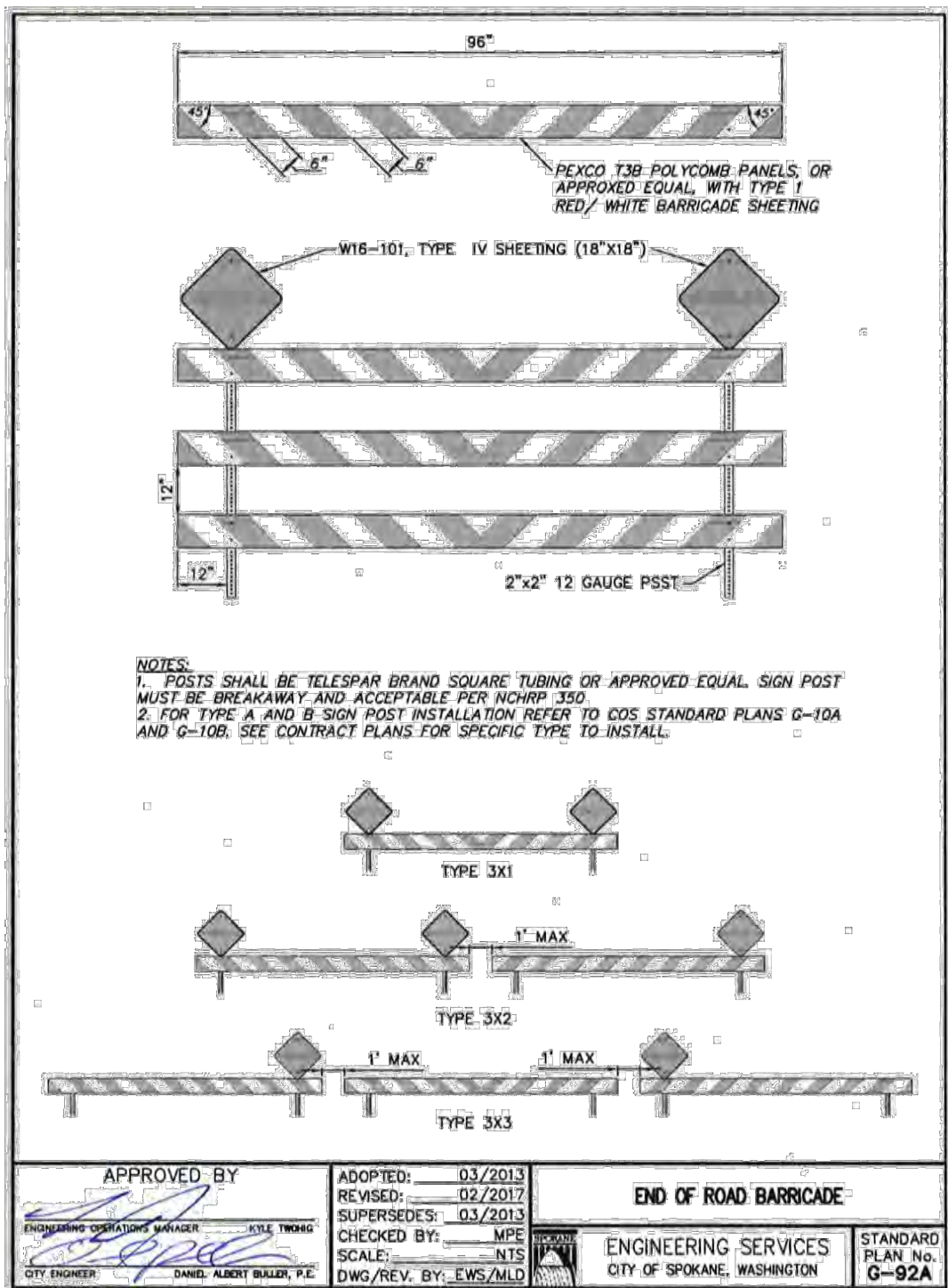




Figure 7.3.7 - Tracking and Contour Furrows

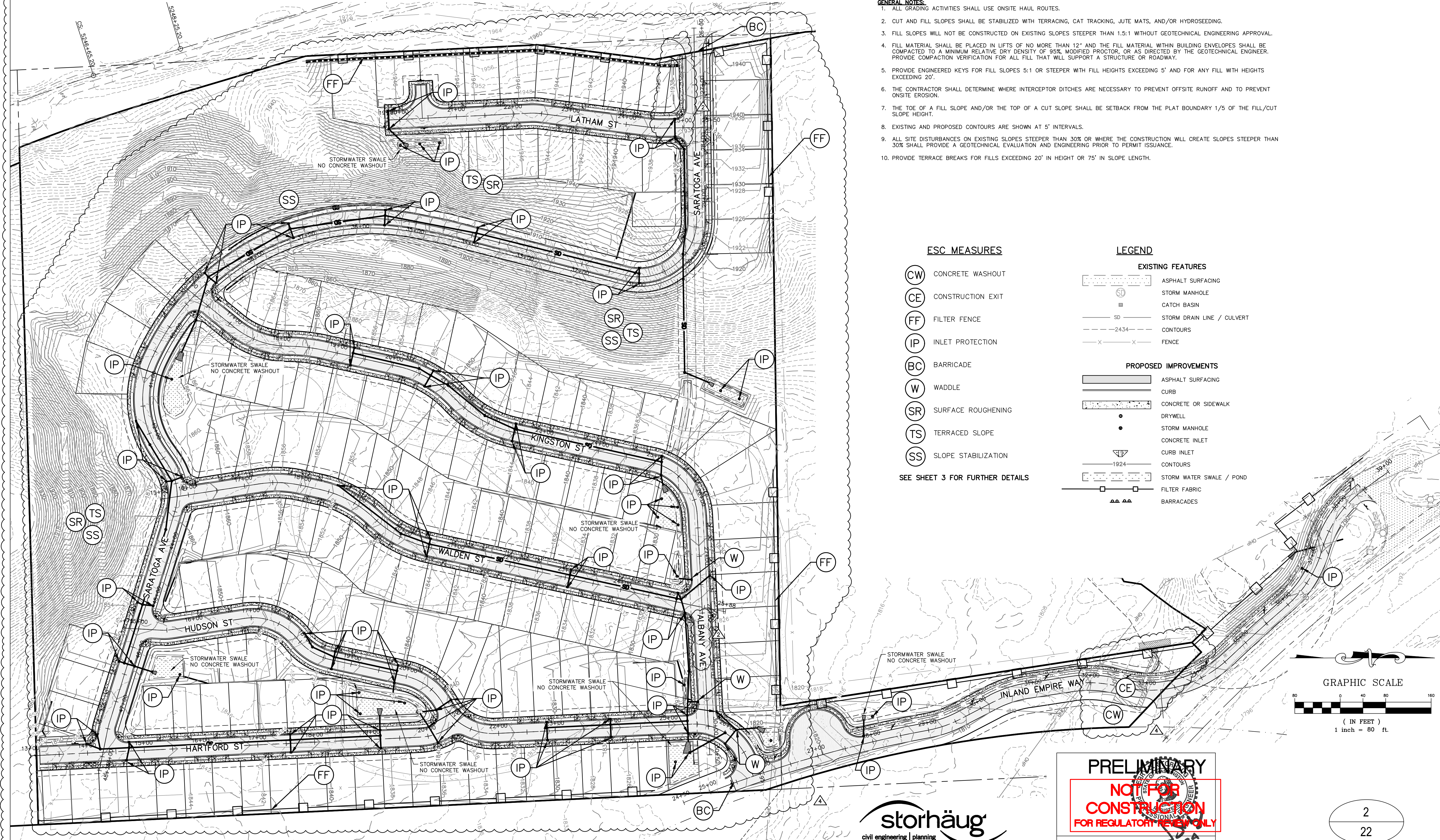
SLOPE STABILIZATION

NTS (SS)



TERMINUS BARRICADE DETAIL (BC)

REVISIONS				NAVD88 = ESTABLISHED FROM GPS				SE#19-342				PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY			
				NAVD88 ELEV. :1843.87				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		 CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700		SEGMENT LIMITS: EROSION CONTROL NOTES AND DETAILS		TYPE OF IMPROVEMENT: SITE/DRAINAGE	
5/14/25		LC	19-342	GENERAL REVISION		SCALE IN FEET		SCALE				DRAWN: LMC APPROVED: JDS		2023519/2023520	
10/10/24		LC	19-342	GENERAL REVISION											
4/10/24		LC	19-342	ASI #1 CONTRACTOR QUESTIONS											
DATE BY PROJECT DESCRIPTION				NAVD88 DATUM											



- GENERAL NOTES:**
1. ALL GRADING ACTIVITIES SHALL USE ONSITE HAUL ROUTES.
 2. CUT AND FILL SLOPES SHALL BE STABILIZED WITH TERRACING, CAT TRACKING, JUTE MATS, AND/OR HYDROSEEDING.
 3. FILL SLOPES WILL NOT BE CONSTRUCTED ON EXISTING SLOPES STEEPER THAN 1.5:1 WITHOUT GEOTECHNICAL ENGINEERING APPROVAL.
 4. FILL MATERIAL SHALL BE PLACED IN LIFTS OF NO MORE THAN 12" AND THE FILL MATERIAL WITHIN BUILDING ENVELOPES SHALL BE COMPACTED TO A MINIMUM RELATIVE DRY DENSITY OF 95% MODIFIED PROCTOR, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. PROVIDE COMPACTION VERIFICATION FOR ALL FILL THAT WILL SUPPORT A STRUCTURE OR ROADWAY.
 5. PROVIDE ENGINEERED KEYS FOR FILL SLOPES 5:1 OR STEEPER WITH FILL HEIGHTS EXCEEDING 5' AND FOR ANY FILL WITH HEIGHTS EXCEEDING 20'.
 6. THE CONTRACTOR SHALL DETERMINE WHERE INTERCEPTOR DITCHES ARE NECESSARY TO PREVENT OFFSITE RUNOFF AND TO PREVENT ONSITE EROSION.
 7. THE TOE OF A FILL SLOPE AND/OR THE TOP OF A CUT SLOPE SHALL BE SETBACK FROM THE PLAT BOUNDARY 1/5 OF THE FILL/CUT SLOPE HEIGHT.
 8. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 5' INTERVALS.
 9. ALL SITE DISTURBANCES ON EXISTING SLOPES STEEPER THAN 30% OR WHERE THE CONSTRUCTION WILL CREATE SLOPES STEEPER THAN 30% SHALL PROVIDE A GEOTECHNICAL EVALUATION AND ENGINEERING PRIOR TO PERMIT ISSUANCE.
 10. PROVIDE TERRACE BREAKS FOR FILLS EXCEEDING 20' IN HEIGHT OR 75' IN SLOPE LENGTH.

ESC MEASURES

- (CW) CONCRETE WASHOUT
- (CE) CONSTRUCTION EXIT
- (FF) FILTER FENCE
- (IP) INLET PROTECTION
- (BC) BARRICADE
- (W) WADDLE
- (SR) SURFACE ROUGHENING
- (TS) TERRACED SLOPE
- (SS) SLOPE STABILIZATION

SEE SHEET 3 FOR FURTHER DETAILS

LEGEND

EXISTING FEATURES

- ASPHALT SURFACING
- STORM MANHOLE
- CATCH BASIN
- SD STORM DRAIN LINE / CULVERT
- 2434 CONTOURS
- FENCE

PROPOSED IMPROVEMENTS

- ASPHALT SURFACING
- CURB
- CONCRETE OR SIDEWALK
- DRYWELL
- STORM MANHOLE
- CONCRETE INLET
- CURB INLET
- CONTOURS
- STORM WATER SWALE / POND
- FILTER FABRIC
- BARRICADES



PRELIMINARY
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
EROSION & SEDIMENT CONTROL PLAN

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO. PLAN NO.

2023519/2023520 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV. :1843.87	
				CBM NO. :	
				NAVD88 DATUM	
5/14/25	LC	19-342	GENERAL REVISION		
10/10/24	LC	19-342	GENERAL REVISION		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS		
DATE	BY	PROJECT	DESCRIPTION		

SCALE IN FEET
40' 0' 40' 80'

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

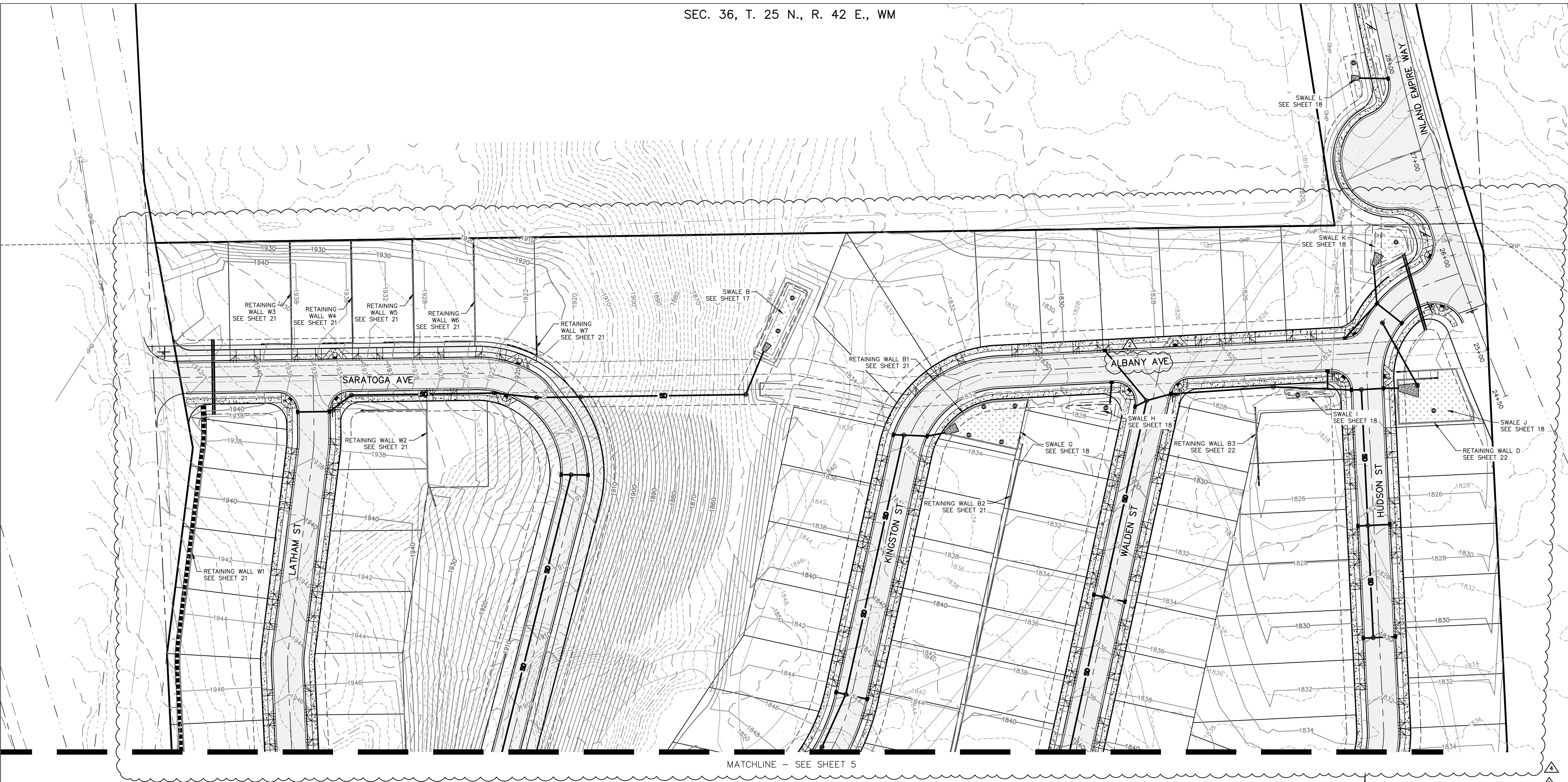
SCALE
HORIZONTAL SCALE (22 x 34)
VERTICAL SCALE (22 x 34)

BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024



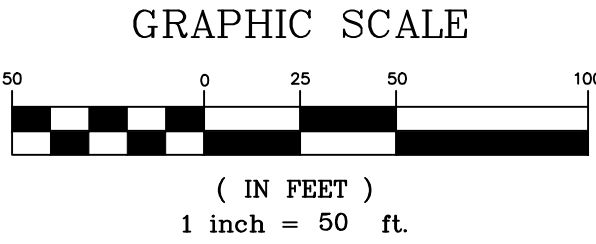
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

SEC. 36, T. 25 N., R. 42 E., WM



NOTES

1. SEE SHEET 17 & 18 FOR SWALE DETAILS.
2. SEE SHEET 15 & 16 FOR INTERSECTION DETAILS.
3. SEE SHEET 14 FOR STREET CROSS SECTION DETAILS.
4. SEE SHEET 20 FOR STANDARD CITY DETAILS.
5. SEE SHEET 21 & 22 FOR WALL DETAILS.

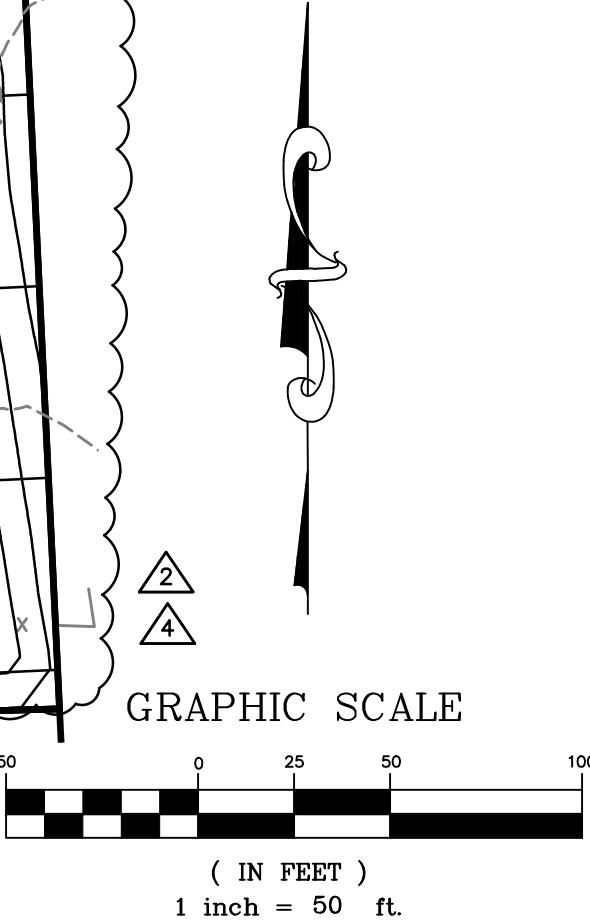


4
22

REVISIONS				NAVD88 = ESTABLISHED FROM GPS		BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER	SCALE HORIZONTAL SCALE (22 x 34) VERTICAL SCALE (22 x 34)	BY LMC JDS	DATES 3/3/2023 01/19/2024	CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700	PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY		TYPE OF IMPROVEMENT: SITE/DRAINAGE	
DATE	BY	PROJECT	DESCRIPTION	NAVD88 ELEV. :1843.87	CBM NO. :						SEGMENT LIMITS: DETAILED GRADING PLAN NORTH		PROJECT NO. PLAN NO.	
5/14/25	LC	19-342	GENERAL REVISION											
10/10/24	LC	19-342	GENERAL REVISION											
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS											

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MATCHLINE - SEE SHEET 4



5
22

NOTES

- 1. SEE SHEET 17 & 18 FOR SWALE DETAILS.
- 2. SEE SHEET 15 & 16 FOR INTERSECTION DETAILS.
- 3. SEE SHEET 14 FOR STREET CROSS SECTION DETAILS.
- 4. SEE SHEET 20 FOR STANDARD CITY DETAILS.
- 5. SEE SHEET 21 & 22 FOR WALL DETAILS.

storhäug
civil engineering | planning
landscape architecture | surveying
SE #19-342 510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

PRELIMINARY
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

REVISIONS				NAVD88 = ESTABLISHED FROM GPS		BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER	SCALE HORIZONTAL SCALE (22 x 34) VERTICAL SCALE (22 x 34)	BY DRAWN: LMC APPROVED: JDS	DATES 3/3/2023 01/19/2024	CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700	PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY		TYPE OF IMPROVEMENT: SITE/DRAINAGE	
DATE	BY	PROJECT	DESCRIPTION	NAVD88 ELEV. :1843.87	CBM NO. :						SEGMENT LIMITS: LATAH GLEN RESIDENTIAL		PROJECT NO. PLAN NO.	
5/14/25	LC	19-342	GENERAL REVISION								DETAILED GRADING PLAN		2023519/2023520	
10/10/24	LC	19-342	GENERAL REVISION								SOUTH		36-25N-42E	
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS								PROJECT LIMITS: LATAH GLEN RESIDENTIAL		CALL BEFORE YOU DIG 1-800-424-5555	

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD
C3	2140.00	449.79	N16°29'58"W
C5	2920.00	139.44	N42°17'02"W
C6	200.00	116.79	N57°38'43"W
C7	200.00	132.59	N55°22'57"W
C8	2995.00	53.19	N35°52'54"W
C15	200.00	59.30	N18°58'22"W
C16	200.00	65.33	N18°06'37"W
C17	200.00	68.86	N01°06'39"E
C18	200.00	190.68	N16°20'18"W

CENTERLINE LINE TABLE

LINE	LENGTH	DIRECTION
L8	65.05	N27°28'03"W
L9	77.41	N08°45'11"W
L10	31.64	N10°58'30"E

TABLE:

- 1 NOT USED
- 2 CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C.
- 3 STORM DRAIN PIPE. SEE STORM PIPE TABLE.
- 4 TYPE 1 DRYWELL, PER CITY OF SPOKANE STD. DWG. B-102C.
- 5 SWALE L. SEE DETAIL ON SHEET 18.
- 6 NOT USED
- 7 5' CONCRETE SIDEWALK PER CITY OF SPOKANE STD PLAN F-102
- 8 INTERSECTION. SEE DETAILS ON SHEET 15 & 16
- 9 BARRICADE PER CITY OF SPOKANE STD PLAN G-92A
- 10 SAWCUT, REMOVE, AND REPLACE EXISTING ASPHALT FOR ROAD IMPROVEMENTS PER INLAND NORTHWEST PAVEMENT CUT POLICY. TACK COAT PRIOR TO PAVING, MATCH EXISTING GRADE.
- 11 PUBLIC ROAD SECTION. SEE CROSS SECTION ON SHEET 14. SUPER ELEVATED FROM STA: 33+06 - STA: 36+64 WITH 50' TRANSITIONS BEFORE AND AFTER.
- 12 EXISTING 24" CONCRETE CULVERT.
- 13 EXTEND EXISTING 24" CONCRETE CULVERT 35' ON SOUTH END 15' ON NORTH END ADD RIP RAP PAD ON EXIT.
- 14 TERMINATE SIDEWALK AT EDGE OF ASPHALT AS SHOWN ON PLANS. PROVIDE 2' x 5' TRUNCATED DOMES AT EDGE OF CONCRETE SIDEWALK.

INLAND EMPIRE WAY PROFILE

STATIONING: 24+50, 25+00, 26+00, 27+00, 28+00, 29+00, 30+00, 31+00, 32+00, 33+00, 34+00, 35+00, 36+00, 37+00, 38+00, 38+50

ELEVATIONS: 1820, 1810, 1800, 1790, 1780, 1770, 1760, 1750, 1740, 1730, 1720, 1710, 1700, 1690, 1680, 1670, 1660, 1650, 1640, 1630, 1620, 1610, 1600, 1590, 1580, 1570, 1560, 1550, 1540, 1530, 1520, 1510, 1500, 1490, 1480, 1470, 1460, 1450, 1440, 1430, 1420, 1410, 1400, 1390, 1380, 1370, 1360, 1350, 1340, 1330, 1320, 1310, 1300, 1290, 1280, 1270, 1260, 1250, 1240, 1230, 1220, 1210, 1200, 1190, 1180, 1170, 1160, 1150, 1140, 1130, 1120, 1110, 1100, 1090, 1080, 1070, 1060, 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970, 960, 950, 940, 930, 920, 910, 900, 890, 880, 870, 860, 850, 840, 830, 820, 810, 800, 790, 780, 770, 760, 750, 740, 730, 720, 710, 700, 690, 680, 670, 660, 650, 640, 630, 620, 610, 600, 590, 580, 570, 560, 550, 540, 530, 520, 510, 500, 490, 480, 470, 460, 450, 440, 430, 420, 410, 400, 390, 380, 370, 360, 350, 340, 330, 320, 310, 300, 290, 280, 270, 260, 250, 240, 230, 220, 210, 200, 190, 180, 170, 160, 150, 140, 130, 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, 10, 0

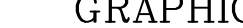
Notes:

- INLAND EMPIRE WAY STA: 25+80.83 SI = HUDSON ST STA: 26+95.29 SEE INTERSECTION DETAIL G ON SHEET 16
- RIGHT OF WAY ACCESS TO PARCEL # 25361.0048
- WETLANDS, SEE WETLAND REPORT
- 4 DW #07
- 12 INLAND EMPIRE WAY
- 27' EOP-EOP
- 195

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L8	65.05	N27°28'03"W
L9	77.41	N08°45'11"W
L10	31.64	N10°58'30"E

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #48	RIM.= 1818.12 IE.= 1815.31 (W)	STA. 274+86.29; LT INLAND EMPIRE WAY
DW #07	RIM.= 1789.55	STA. 364+69.26; BT INLAND EMPIRE WAY
DW #29	RIM.= 1815.00	STA. 28+09.00; LT INLAND EMPIRE WAY

GRAPHIC SCALE



(IN FEET)

HORZ: 1 inch = 50 ft.

VERT: 1 inch = 10 ft.

PRELIMINARY

NOT FOR CONSTRUCTION

DATE: 6/11/24


6-11-24

SEGMENT LIMITS:

INLAND EMPIRE WAY ROAD & DRAINAGE
(PUBLIC) PLAN & PROFILE STA 25+43 TO STA 38+45

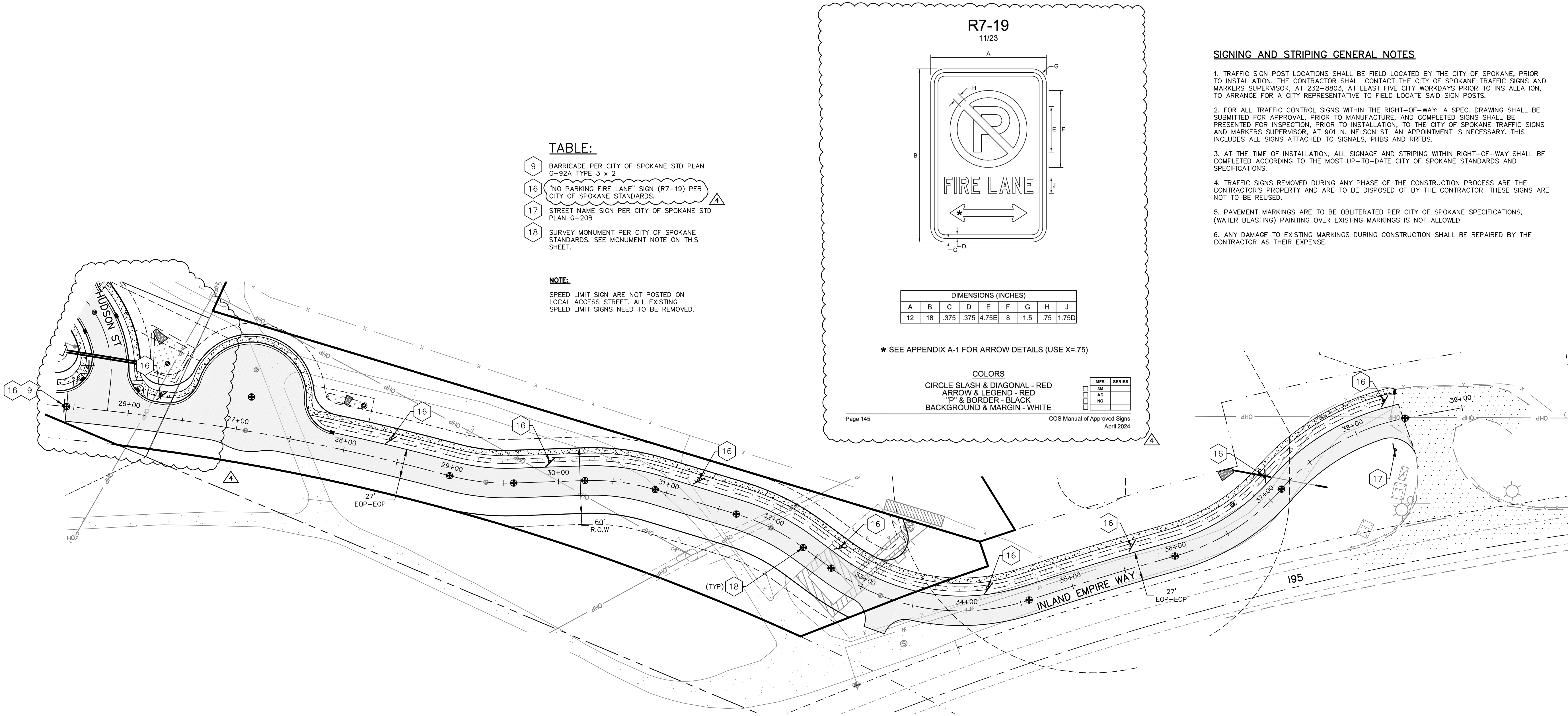
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	BY	DATES
DRAWN:	LMC	3/3/2023
APPROVED:	JDS	01/19/2024



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

CALL BEFORE YOU DIG 1-800-424-5555



SIGNING AND STRIPING GENERAL NOTES

1. TRAFFIC SIGN POST LOCATIONS SHALL BE FIELD LOCATED BY THE CITY OF SPOKANE, PRIOR TO INSTALLATION. THE CONTRACTOR SHALL CONTACT THE CITY OF SPOKANE TRAFFIC SIGNS AND MARKERS SUPERVISOR, AT 232-8803, AT LEAST FIVE CITY WORKDAYS PRIOR TO INSTALLATION, TO ARRANGE FOR A CITY REPRESENTATIVE TO FIELD LOCATE SAID SIGN POSTS.
2. FOR ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY: A SPEC. DRAWING SHALL BE SUBMITTED FOR APPROVAL, PRIOR TO MANUFACTURE, AND COMPLETED SIGNS SHALL BE PRESENTED FOR INSPECTION, PRIOR TO INSTALLATION, TO THE CITY OF SPOKANE TRAFFIC SIGNS AND MARKERS SUPERVISOR, AT 901 N. NELSON ST. AN APPOINTMENT IS NECESSARY. THIS INCLUDES ALL SIGNS ATTACHED TO SIGNALS, PHBS AND RRFBs.
3. AT THE TIME OF INSTALLATION, ALL SIGNAGE AND STRIPING WITHIN RIGHT-OF-WAY SHALL BE COMPLETED ACCORDING TO THE MOST UP-TO-DATE CITY OF SPOKANE STANDARDS AND SPECIFICATIONS.
4. TRAFFIC SIGNS REMOVED DURING ANY PHASE OF THE CONSTRUCTION PROCESS ARE THE CONTRACTOR'S PROPERTY AND ARE TO BE DISPOSED OF BY THE CONTRACTOR. THESE SIGNS ARE NOT TO BE REUSED.
5. PAVEMENT MARKINGS ARE TO BE OBLITERATED PER CITY OF SPOKANE SPECIFICATIONS, (WATER BLASTING) PAINTING OVER EXISTING MARKINGS IS NOT ALLOWED.
6. ANY DAMAGE TO EXISTING MARKINGS DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AS THEIR EXPENSE.

REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	25' 0' 25' 50'	BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER	
				CBM NO. :			
				NAVD88 DATUM	SCALE IN FEET		
5/14/25	LC	19-342	GENERAL REVISION	3		SCALE	HORIZONTAL SCALE (22 x 34) 1"=50'
10/10/24	LC	19-342	GENERAL REVISION	2			VERTICAL SCALE (22 x 34) 1"=10'
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1			
DATE	BY	PROJECT	DESCRIPTION				

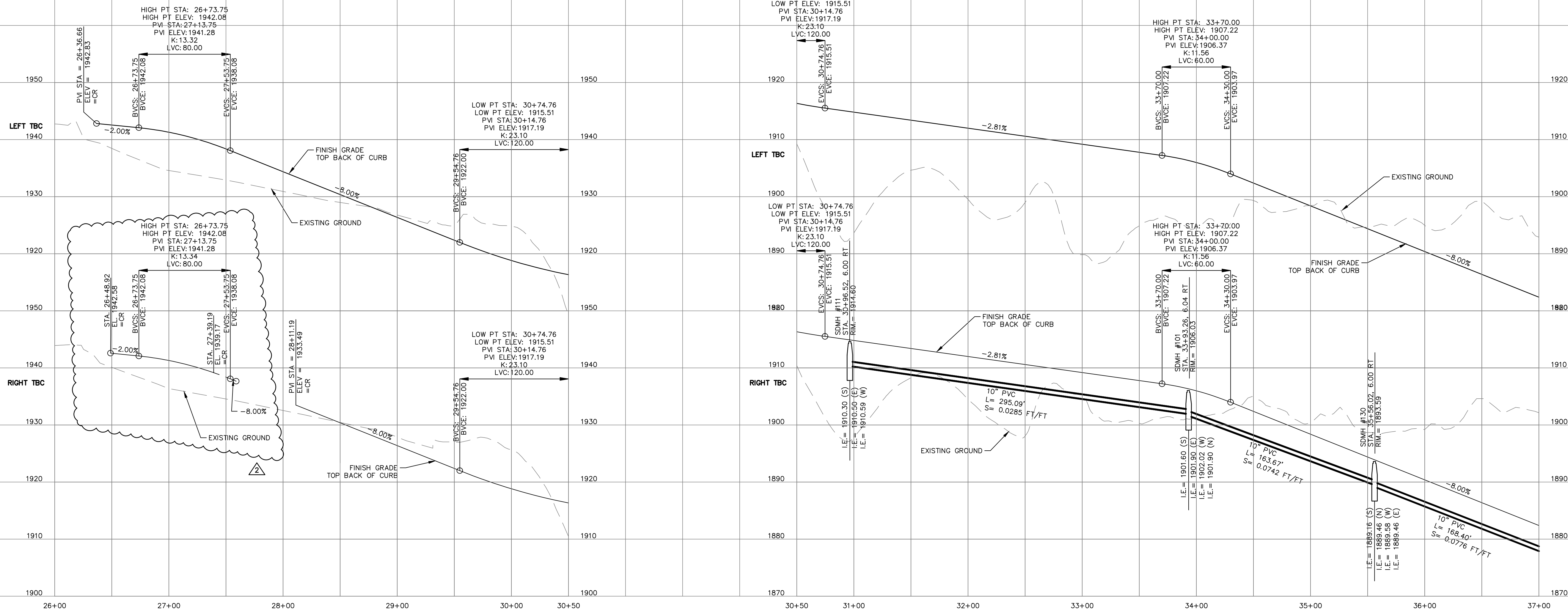
BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024

SPOKANE	CITY OF SPOKANE, WASHINGTON
	DEPARTMENT OF ENGINEERING SERVICES 808
	WEST SPOKANE FALLS BLVD. SPOKANE,
	WASHINGTON 99201-3343 (509) 625-6700

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY	
SEGMENT LIMITS: INLAND EMPIRE WAY ROAD & DRAINAGE (PUBLIC) SIGNING & STRIPING PLAN: STA 25+43 TO STA 38+45	
PROJECT LIMITS: LATAH GLEN RESIDENTIAL	

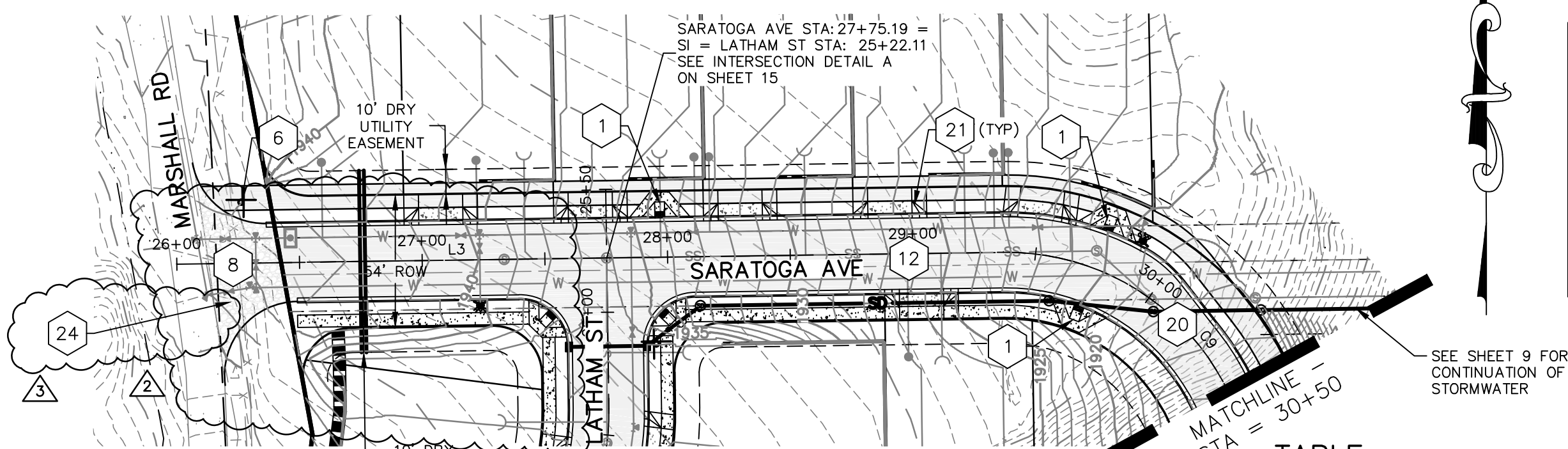
TYPE OF IMPROVEMENT: SITE/DRAINAGE	
PROJECT NO.	PLAN NO.
2023519/2023520	INLAN W (03) 1 36-25N-42E

SEC. 36, T. 25 N., R. 42 E., WM



SARATOGA AVENUE PROFILE
STA 26+00 TO 30+50

SARATOGA AVENUE PROFILE
STA 30+50 TO 37+00

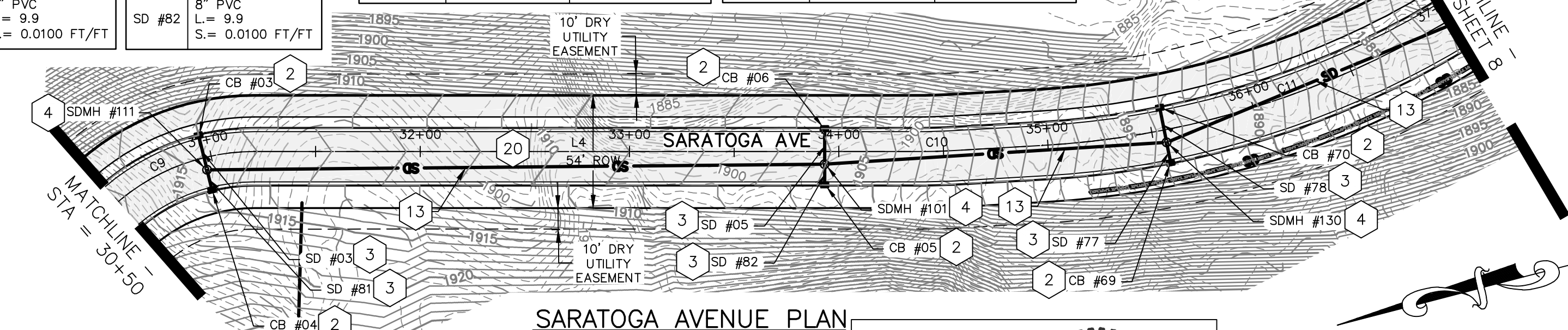


SARATOGA AVENUE PLAN
STA 26+00 TO 30+50

STORM PIPE TABLE		STORM PIPE TABLE	
NAME	DETAILS	NAME	DETAILS
SD #03	8" PVC L = 16.9 S = 0.0171 FT/FT	SD #78	8" PVC L = 16.9 S = 0.0205 FT/FT
SD #05	8" PVC L = 17.0 S = 0.0188 FT/FT	SD #81	8" PVC L = 9.9 S = 0.0100 FT/FT
SD #77	8" PVC L = 9.9 S = 0.0100 FT/FT	SD #82	8" PVC L = 9.9 S = 0.0100 FT/FT

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #03	RIM = 1914.45 IE = 1910.79 (W)	STA. 30+96.53; LT SARATOGA AVE
CB #04	RIM = 1914.32 IE = 1910.69 (E)	STA. 30+96.51; RT SARATOGA AVE
CB #05	RIM = 1905.75 IE = 1902.12 (E)	STA. 33+93.26; RT SARATOGA AVE

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #06	RIM = 1905.85 IE = 1902.22 (W)	STA. 33+93.26; LT SARATOGA AVE
CB #69	RIM = 1893.31 IE = 1889.68 (E)	STA. 35+56.02; RT SARATOGA AVE
CB #70	RIM = 1893.41 IE = 1889.11 (W)	STA. 35+56.02; LT SARATOGA AVE



SARATOGA AVENUE PLAN
STA 30+50 TO 37+00

PRELIMINARY
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

GRAPHIC SCALE

(IN FEET)
HORZ: 1 inch = 50 ft.
VERT: 1 inch = 10 ft.

7
22

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

SARATOGA AVENUE ROAD & DRAINAGE
PLAN & PROFILE STA 26+00 TO STA 37+00

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO.

PLAN NO.

2023519/2023520

SARAT A (03) 4

36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L3	336.82	N89°11'02"E
L4	320.64	S14°29'26"W

CENTERLINE CURVE TABLE			
CURVE	RADIUS	LENGTH	CHORD
C9	100.00	183.79	S38°09'46"E
C10	200.00	11.40	S12°51'29"W
C11	425.00	569.34	S27°09'07"E

NOTES:

- SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET.
- ALL CURB AND OFFSET DATA IS REFERENCED TO BACK OF CURB, UNLESS OTHERWISE NOTED.
- EXISTING UTILITY LINE LOCATIONS HAVE BEEN EXTRACTED FROM RECORD UTILITY DRAWINGS AND FOUND SURFACE FEATURES. FIELD VERIFY EXACT LOCATIONS.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. COORDINATE WITH THE APPLICABLE UTILITY COMPANY.
- 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER D.I. STORM DRAIN PIPES, 3.0' (MIN.) OVER ALL OTHERS.

- CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
- ALL STATIONING REFERENCES SARATOGA AVENUE ALIGNMENT.
- SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY OF SPOKANE SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION.
- CATCH BASINS ON GRADE
RIM = FLOWLINE - 0.08'
CATCH BASINS IN SWAMP CONDITION
RIM = FLOWLINE - 0.17'

TABLE:

- PEDESTRIAN RAMP TYPE 1 CITY OF SPOKANE STANDARD F-105.
- CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE.
- STORM DRAIN PIPE. SEE STORM PIPE TABLE.
- SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101
- NOT USED.
- STOP SIGN/STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
- INTERSECTION. SEE MARSHALL ROAD AND SARATOGA AVENUE INTERSECTION DETAIL J OF SHEET 16.

REVISIONS			
DATE	BY	PROJECT	DESCRIPTION
5/14/25	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

NAVD88 = ESTABLISHED FROM GPS

NAVD88 ELEV.: 1843.87

CBM NO. :

NAVD88 DATUM

25' 0' 25' 50'

SCALE IN FEET

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE
HORIZONTAL SCALE (22 x 34) 1"=50'
VERTICAL SCALE (22 x 34) 1"=10'

BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024



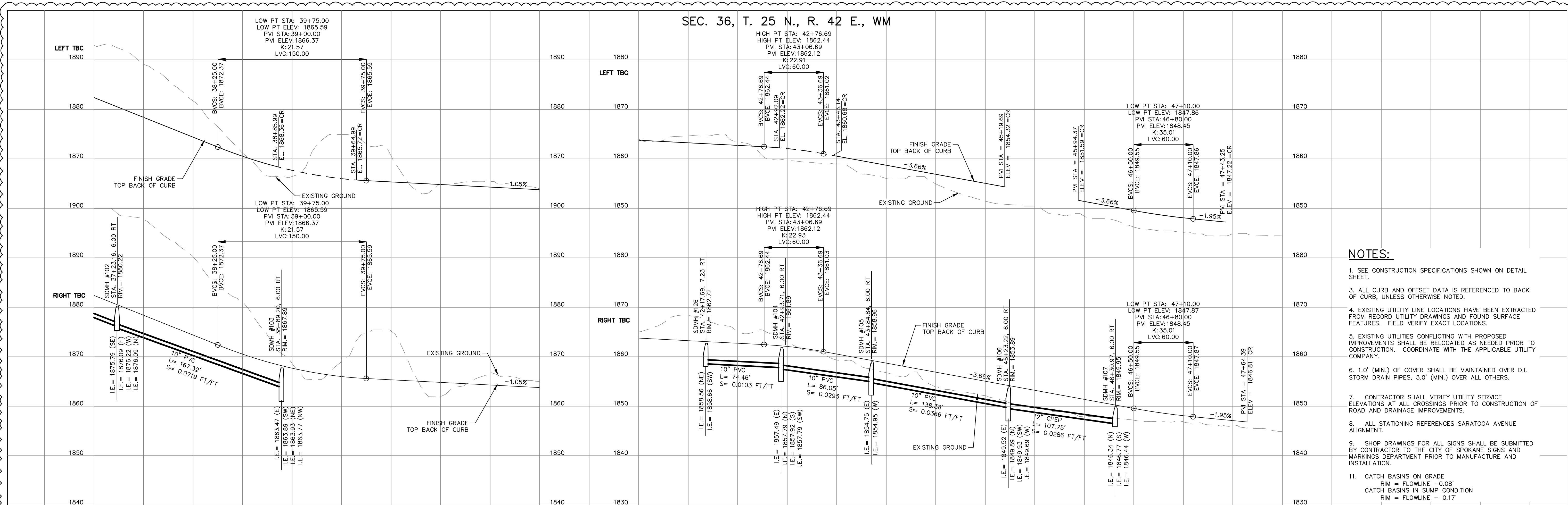
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

SE #19-342

510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001



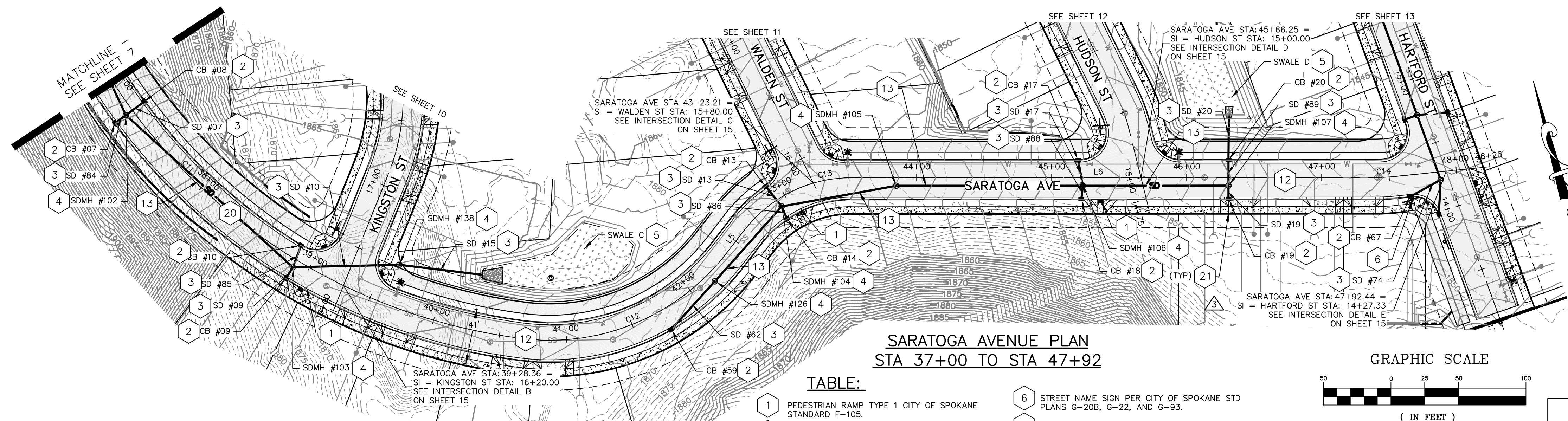
SE #19-342



NOTES:

1. SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET.
3. ALL CURB AND OFFSET DATA IS REFERENCED TO BACK OF CURB, UNLESS OTHERWISE NOTED.
4. EXISTING UTILITY LINE LOCATIONS HAVE BEEN EXTRACTED FROM RECORD UTILITY DRAWINGS AND FOUND SURFACE FEATURES. FIELD VERIFY EXACT LOCATIONS.
5. EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. COORDINATE WITH THE APPLICABLE UTILITY COMPANY.
6. 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER D.I. STORM DRAIN PIPES, 3.0' (MIN.) OVER ALL OTHERS.
7. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
8. ALL STATIONING REFERENCES SARATOGA AVENUE ALIGNMENT.
9. SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY OF SPOKANE SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION.
11. CATCH BASINS ON GRADE
RIM = FLOWLINE - 0.08'
CATCH BASINS IN SUMP CONDITION
RIM = FLOWLINE - 0.17'

SARATOGA AVENUE PROFILE
STA 37+00 TO STA 47+92



STORM PIPE TABLE

NAME	DETAILS
SD #07	8" PVC L= 16.9 S= 0.0189 FT/FT
SD #09	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #10	12" PVC L= 78.8 S= 0.0261 FT/FT
SD #13	8" PVC L= 19.0 S= 0.0147 FT/FT

STORM PIPE TABLE

NAME	DETAILS
SD #15	15" CPEP L= 61.9 S= 0.0050 FT/FT
SD #17	8" PVC L= 19.2 S= 0.0147 FT/FT
SD #19	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #20	12" CPEP L= 33.5 S= 0.0050 FT/FT

STORM PIPE TABLE

NAME	DETAILS
SD #62	10" PVC L= 48.1 S= 0.0100 FT/FT
SD #74	8" PVC L= 25.4 S= 0.0100 FT/FT
SD #84	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #85	8" PVC L= 17.2 S= 0.0187 FT/FT

STORM PIPE TABLE

NAME	DETAILS
SD #86	8" PVC L= 10.1 S= 0.0100 FT/FT
SD #87	10" PVC L= 138.4 S= 0.0366 FT/FT
SD #88	8" PVC L= 10.0 S= 0.0100 FT/FT
SD #89	12" CPEP L= 18.9 S= 0.0050 FT/FT

STORM STRUCTURE TABLE

STRUCTURE	ELEVATIONS	DETAILS
CB #19	RIM= 1849.67 IE.= 1846.87 (N)	STA. 46+30.97; RT SARATOGA AVE
CB #20	RIM= 1849.73 IE.= 1846.25 (S) IE.= 1846.15 (N)	STA. 46+31.02; LT SARATOGA AVE
CB #59	RIM= 1862.95 IE.= 1859.14 (NE)	STA. 41+73.34; RT SARATOGA AVE
CB #67	RIM= 1846.23 IE.= 1842.60 (E)	STA. 47+64.39; RT SARATOGA AVE
SDMH #138	RIM= 1866.04 IE.= 1861.41 (W) IE.= 1861.31 (SE)	STA. 39+61.26; LT SARATOGA AVE

STORM STRUCTURE TABLE

STRUCTURE	ELEVATIONS	DETAILS
CB #07	RIM= 1879.95 IE.= 1876.32 (E)	STA. 37+23.16; RT SARATOGA AVE
CB #08	RIM= 1880.04 IE.= 1876.41 (W)	STA. 37+23.16; LT SARATOGA AVE
CB #09	RIM= 1867.62 IE.= 1863.99 (NE)	STA. 38+89.20; RT SARATOGA AVE
CB #10	RIM= 1867.88 IE.= 1864.25 (SW)	STA. 38+85.99; LT SARATOGA AVE
CB #13	RIM= 1861.57 IE.= 1858.07 (S)	STA. 42+92.09; LT SARATOGA AVE
CB #14	RIM= 1861.65 IE.= 1858.02 (N)	STA. 42+91.56; RT SARATOGA AVE
CB #17	RIM= 1853.80 IE.= 1850.17 (S)	STA. 45+19.69; LT SARATOGA AVE
CB #18	RIM= 1853.66 IE.= 1850.03 (NE)	STA. 45+22.04; RT SARATOGA AVE

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD
C11	425.00	569.34	S27°09'07"E
C12	165.00	171.33	N84°43'23"E
C13	100.00	91.19	N81°06'02"E
C14	100.00	10.16	S75°41'06"E

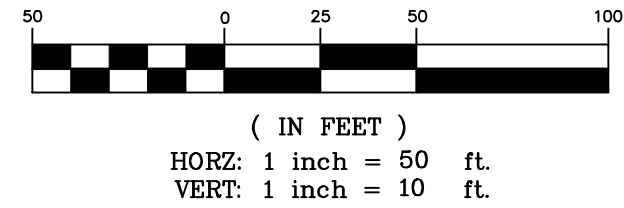
CENTERLINE LINE TABLE

LINE	LENGTH	DIRECTION
L5	22.25	N54°58'32"E
L6	389.73	S72°46'29"E

TABLE:

- 1 PEDESTRIAN RAMP TYPE 1 CITY OF SPOKANE STANDARD F-105.
- 2 CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE.
- 3 STORM DRAIN PIPE. SEE STORM PIPE TABLE.
- 4 SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101
- 5 SWALE. SEE DETAIL ON SHEETS 17 & 18
- 6 STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
- 12 INTERNAL ROAD SECTION. SEE SHEET 14.
- 13 STORM DRAIN PIPE. SEE PLAN & PROFILE
- 20 INTERNAL ROAD SECTION (SIDEWALK ON LEFT SIDE). SEE SHEET 14.
- 21 CONCRETE DRIVEWAY APPROACH PER CITY OF SPOKANE STANDARD PLAN F-104.

GRAPHIC SCALE



SE #19-342

510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

REVISIONS

DATE	BY	PROJECT	DESCRIPTION
5/14/25	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

NAVD88 = ESTABLISHED FROM GPS

NAVD88 ELEV.: 1843.87

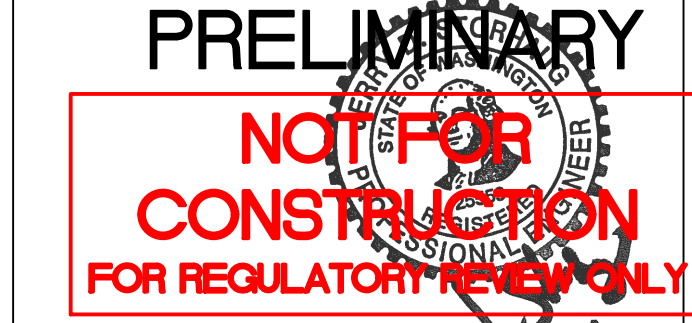
CBM NO. :

NAVD88 DATUM

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE	HORIZONTAL SCALE (22 x 34)	1"=50'
SCALE	VERTICAL SCALE (22 x 34)	1"=10'

BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

SARATOGA AVENUE ROAD & DRAINAGE
PLAN & PROFILE STA 37+00 TO STA 47+92

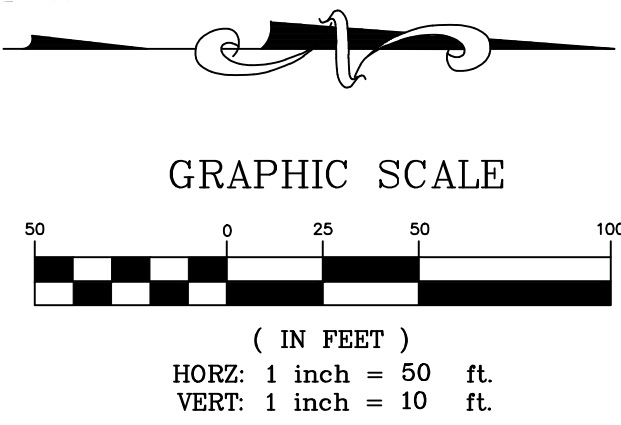
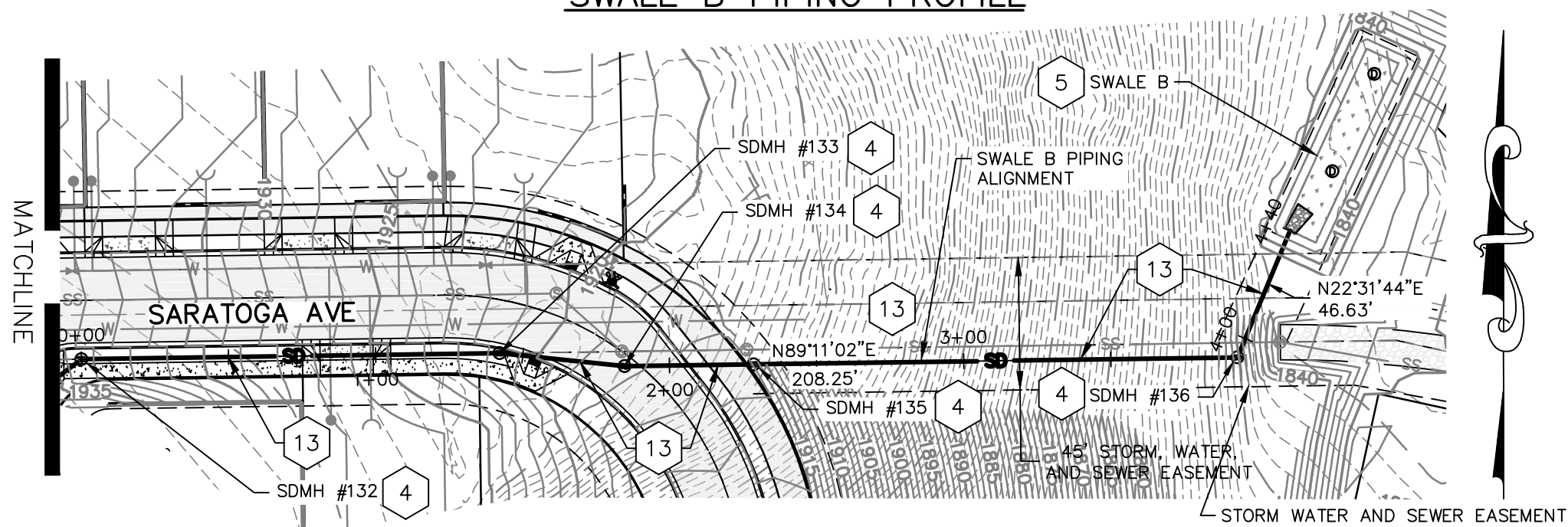
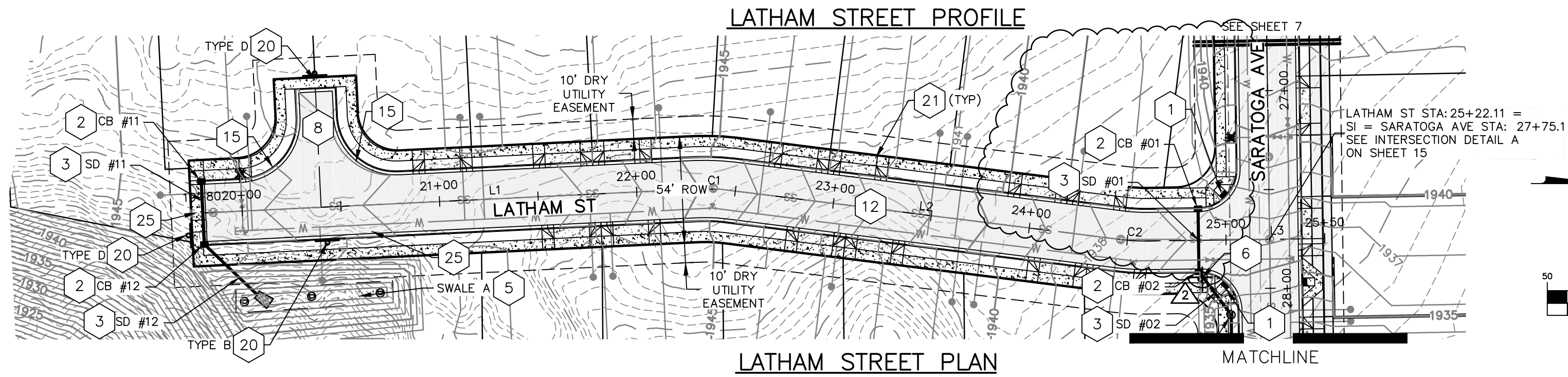
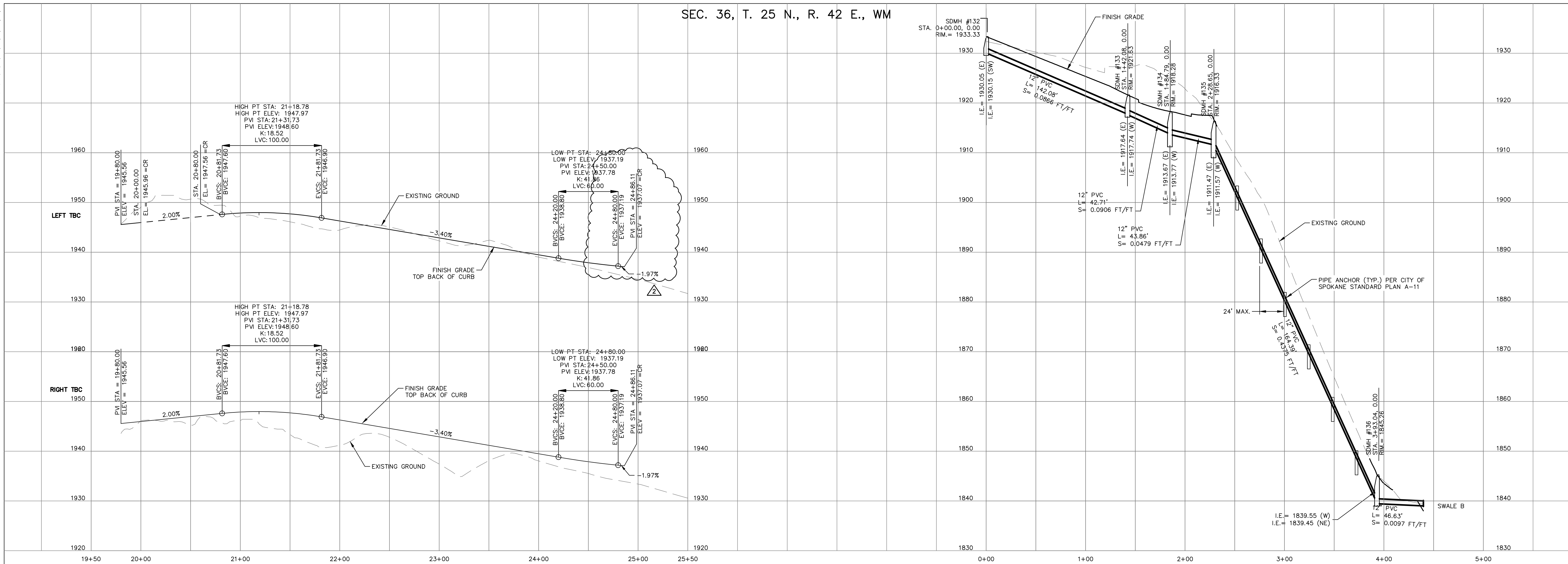
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO.	PLAN NO.
2023519/2023520	SARAT A (04) 4 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

SEC. 36, T. 25 N., R. 42 E., WM



CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L1	250.09	N02°45'53\"W
L2	199.33	N07°08'58\"E
L3	89.38	N00°48'58\"W

CENTERLINE CURVE TABLE			
CURVE	RADIUS	LENGTH	CHORD
C1	100.00	17.30	N02°11'33\"E
C2	100.00	13.90	N03°10'00\"E

NOTES:

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- ALL STATIONING REFERENCES LATHAM STREET ALIGNMENT.
- SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY OF SPOKANE SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION.
- CATCH BASINS ON GRADE
RIM = FLOWLINE - 0.08'
CATCH BASINS IN SUMP CONDITION
RIM = FLOWLINE - 0.17'

TABLE:

- PEDESTRIAN RAMP TYPE 1 PER CITY OF SPOKANE STANDARD F-105.
- CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE.
- STORM DRAIN PIPE. SEE STORM PIPE TABLE.
- SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101.
- SWALE. SEE DETAIL ON SHEETS 17 & 18.
- STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
- TURNAROUND. SEE DETAIL 1 ON SHEET 16.

- NOT USED.
- INTERNAL ROAD SECTION. SEE SHEET 14.
- STORM DRAIN PIPE. SEE PROFILE.
- NOT USED.
- "NO PARKING FIRE LANE" SIGN PER SPOKANE FIRE DEPT STANDARDS. SEE SHEET 14 FOR SIGN TYPE DETAIL AND SPACING STANDARDS.
- CONCRETE DRIVEWAY APPROACH PER CITY OF SPOKANE STANDARD PLAN F-104.
- CONCRETE DRIVEWAY APPROACH PER CITY OF SPOKANE STANDARD PLAN F-103A.

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #01	RIM.= 1936.40 I.E.= 1932.68 (E)	STA. 24+86.11; LT LATHAM ST
CB #02	RIM.= 1936.49 I.E.= 1932.36 (W) I.E.= 1932.26 (NE)	STA. 24+86.11; RT LATHAM ST
CB #11	RIM.= 1944.89 I.E.= 1942.01 (E)	STA. 19+80.08; LT LATHAM ST
CB #12	RIM.= 1944.89 I.E.= 1941.85 (W) I.E.= 1941.75 (NE)	STA. 19+80.08; RT LATHAM ST

SWALE B PIPING PLAN

STORM PIPE TABLE	
NAME	DETAILS
SD #01	10\" PVC L= 31.8 S.= 0.0100 FT/FT
SD #02	12\" PVC L= 27.2 S.= 0.0775 FT/FT
SD #11	10\" PVC L= 31.8 S.= 0.0050 FT/FT
SD #12	10\" PVC L= 36.8 S.= 0.0050 FT/FT

PRELIMINARY
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

LATHAM STREET ROAD & DRAINAGE
PLAN & PROFILE STA 19+80 TO STA 25+37

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO.

PLAN NO.

2023519/2023520 LATHA S (02) 4
36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS			NAVD88 = ESTABLISHED FROM GPS	
			NAVD88 ELEV.: 1843.87	
			CBM NO. :	
			NAVD88 DATUM	
5/14/25	LC	19-342	GENERAL REVISION	3
10/10/24	LC	19-342	GENERAL REVISION	2
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1
DATE	BY	PROJECT	DESCRIPTION	

BENCH MARK LOCATION: 5/8\" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

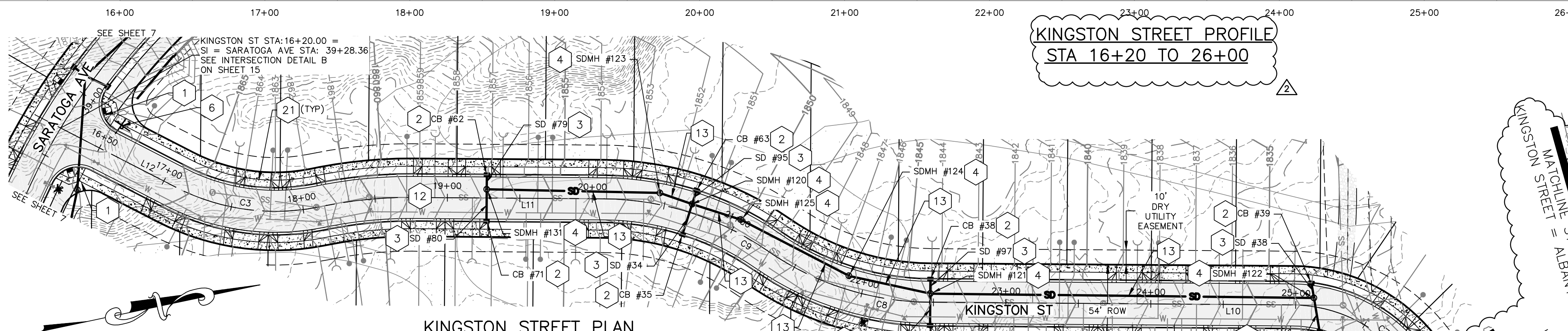
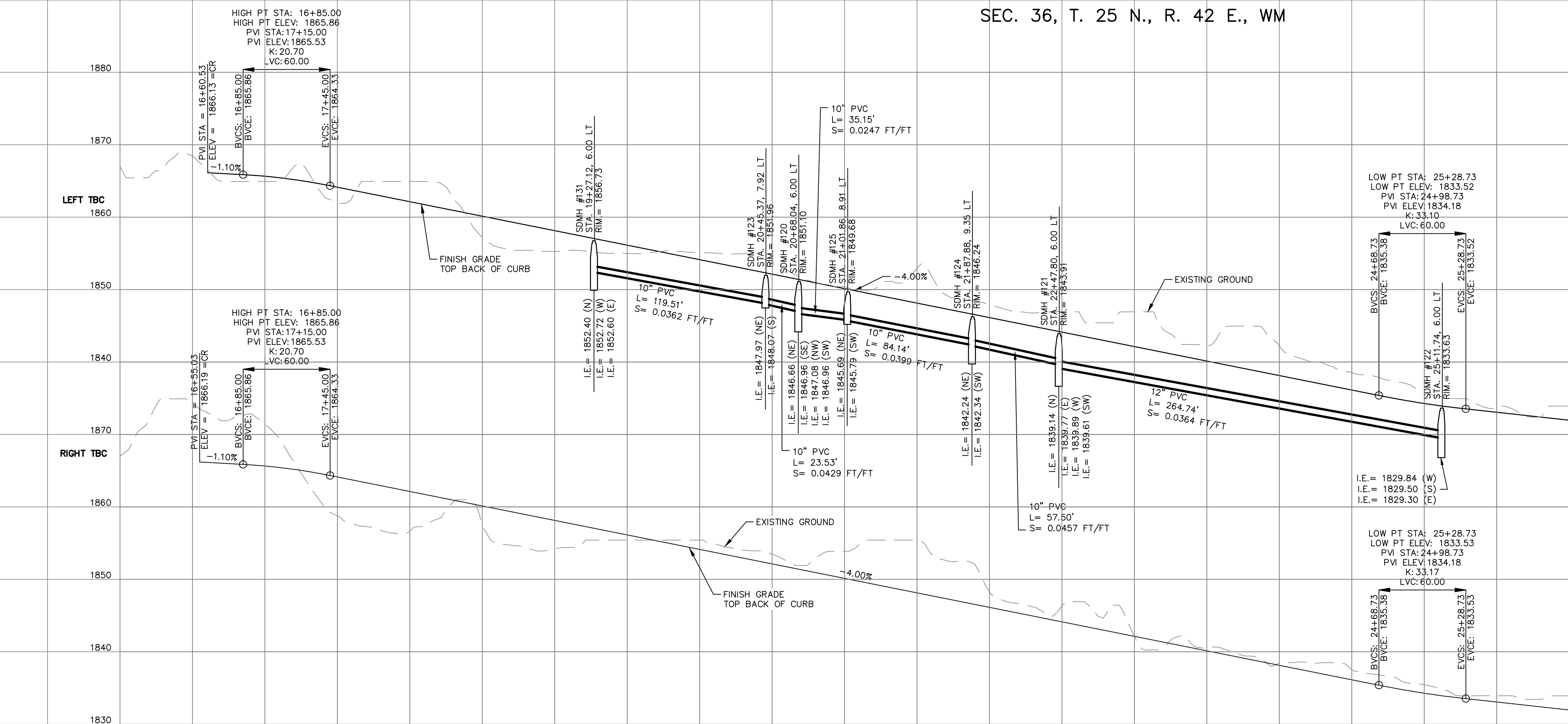
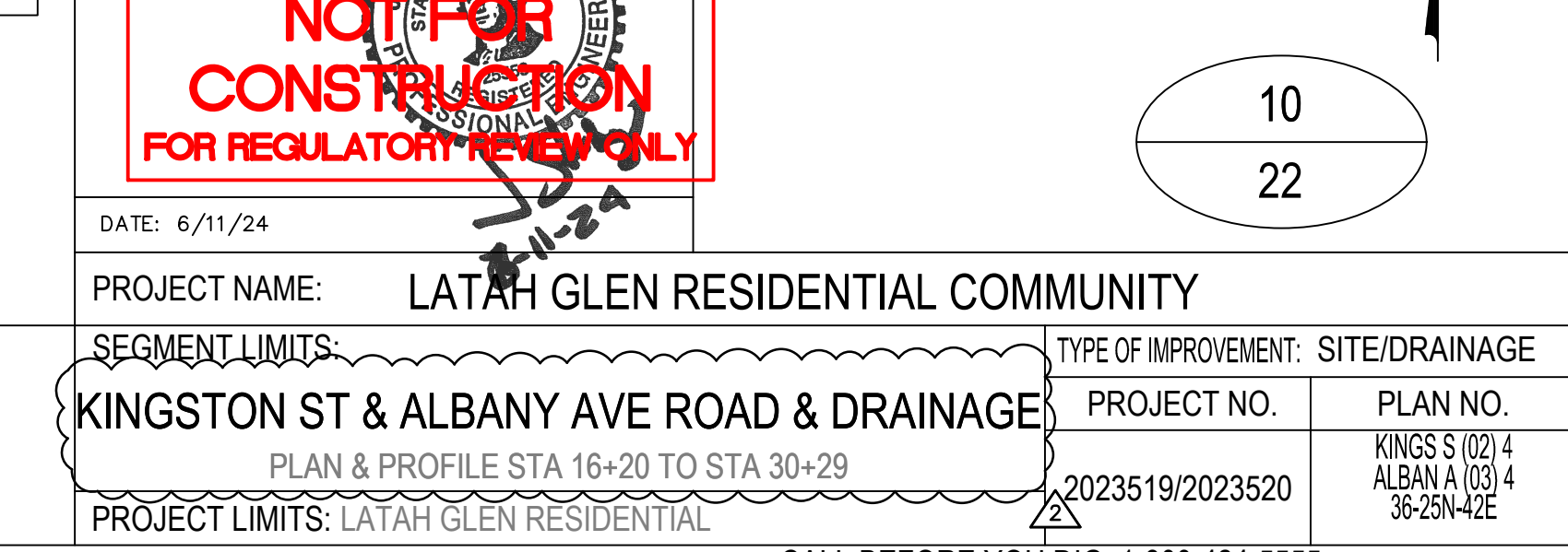
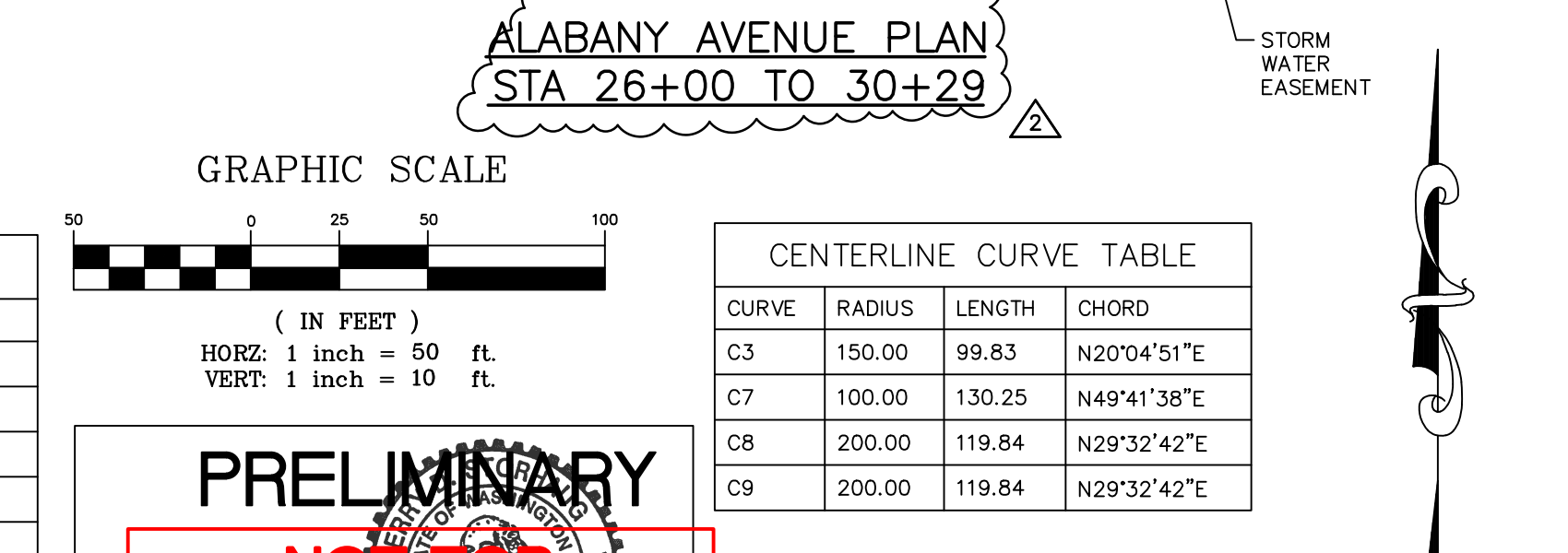
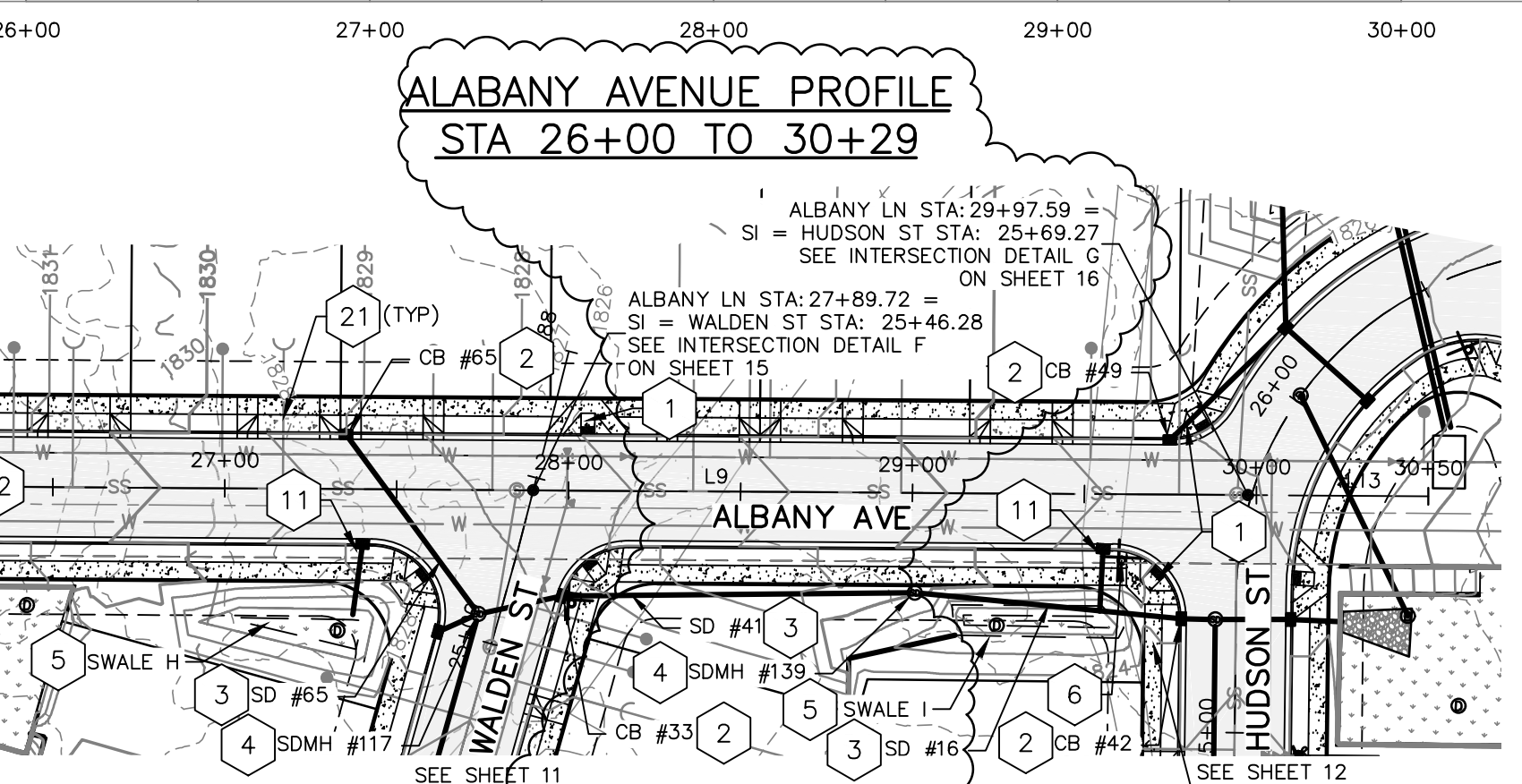
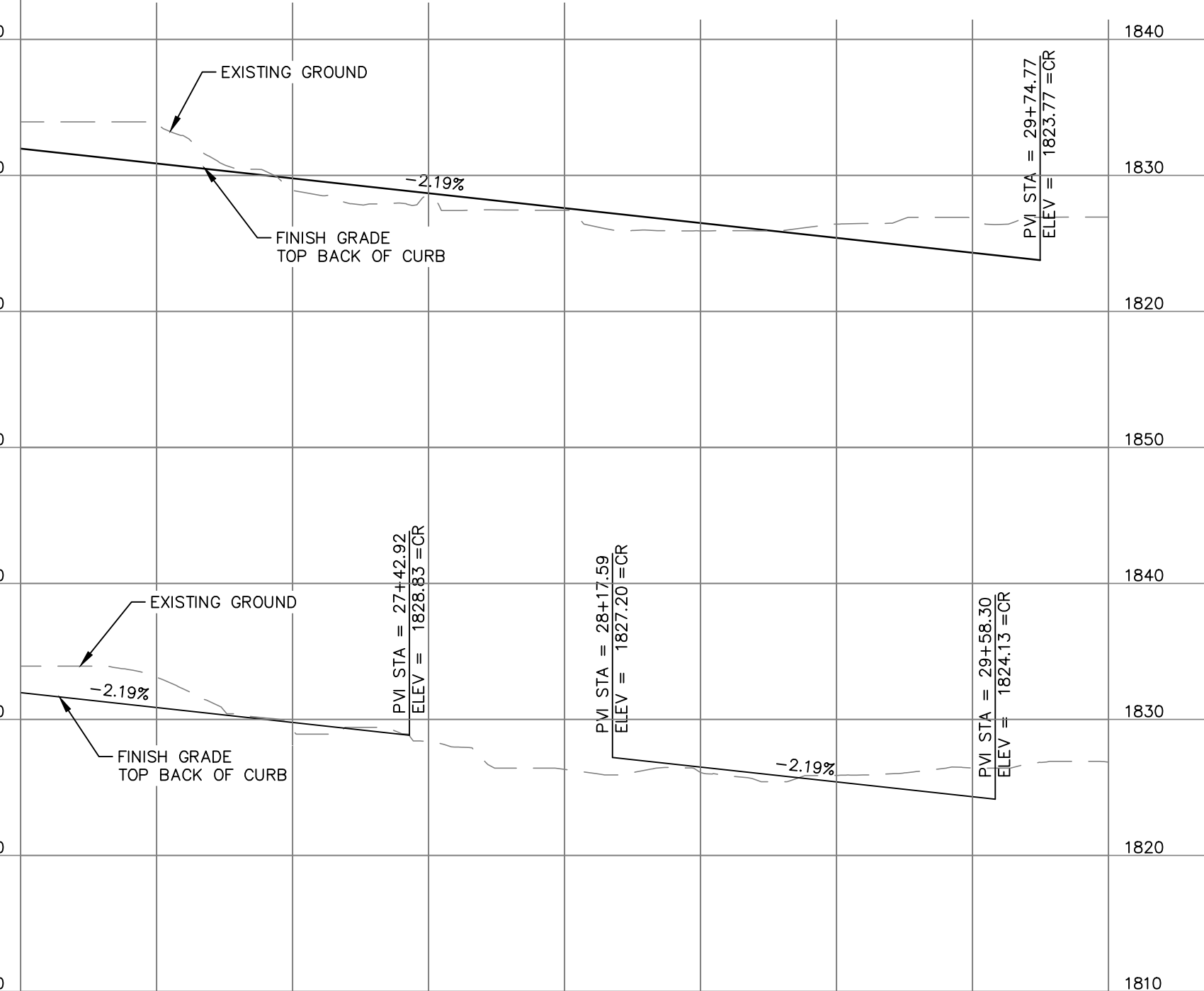
SCALE HORIZONTAL SCALE (22 x 34) 1\"=50'
VERTICAL SCALE (22 x 34) 1\"=10'

BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024

storhäug
civil engineering | planning
landscape architecture | surveying
SE #19-342
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

NOTES:

- | | |
|--|---|
| 1. SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET. | 7. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS. |
| 3. ALL CURB AND OFFSET DATA IS REFERENCED TO BACK OF CURB, UNLESS OTHERWISE NOTED. | 8. ALL STATIONING REFERENCES KINGSTON STREET AND ALBANY AVENUE ALIGNMENTS RESPECTIVELY. |
| 4. EXISTING UTILITY LINE LOCATIONS HAVE BEEN EXTRACTED FROM RECORD UTILITY DRAWINGS AND FOUND SURFACE FEATURES. FIELD VERIFY EXACT LOCATIONS. | 9. SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE TOWN OF SPENCER SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION. |
| 5. EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. COORDINATE WITH THE APPLICABLE UTILITY COMPANY. | 11. CATCH BASINS ON GRADE
RIM = FLOWLINE - 0.08'
CATCH BASINS IN SUMP CONDITION
RIM = FLOWLINE - 0.17' |



STORM PIPE TABLE	
NAME	DETAILS
SD #16	15" CPEP L = 77.8 S. = 0.0062 FT/FT
SD #34	8" PVC L = 21.9 S. = 0.0100 FT/FT
SD #38	8" PVC L = 10.4 S. = 0.0100 FT/FT
SD #39	15" PVC L = 17.8 S. = 0.0072 FT/FT
SD #40	8" PVC L = 21.9 S. = 0.0100 FT/FT
SD #41	12" PVC L = 102.7 S. = 0.0384 FT/FT

STORM PIPE TABLE	
NAME	DETAILS
SD #65	8" D.I. L = 64.9 S. = 0.0100 FT/FT
SD #79	8" PVC L = 9.9 S. = 0.0100 FT/FT
SD #80	8" PVC L = 21.9 S. = 0.0100 FT/FT
SD #95	8" PVC L = 9.9 S. = 0.0100 FT/FT
SD #96	12" PVC L = 23.4 S. = 0.0051 FT/FT
SD #97	8" PVC L = 9.9 S. = 0.0100 FT/FT

STORM STRUCTURE TABLE			
STRUCTURE	ELEVATIONS	DETAILS	
CB #33	RIM = 1927.77	STA. 25+18.95; R	WALDEN ST
	IE. = 1823.74 (W) IE. = 1823.64 (E)		
CB #35	RIM = 1850.81	STA. 20+68.04; R	KINGSTON ST
	IE. = 1847.18 (NW)		
CB #38	RIM = 1843.62	STA. 22+47.80; L	KINGSTON ST
	IE. = 1839.99 (E)		
CB #39	RIM = 1833.57	STA. 25+08.95; L	KINGSTON ST
	IE. = 1829.94 (E)		
CB #40	RIM = 1833.12	STA. 25+20.42; R	KINGSTON ST
	IE. = 1829.18 (W) IE. = 1828.92 (E)		
CB #41	RIM = 1843.62	STA. 22+47.80; R	KINGSTON ST
	IE. = 1839.99 (W)		
CB #42	RIM = 1823.15	STA. 25+32.98; L	HUDSON ST
	IE. = 1816.97 (W) IE. = 1818.72 (E)		

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #49	RIM. = 1823.18 IE. = 1820.55 (NE)	STA. 29+74.77; L ALBANY LN
CB #62	RIM. = 1856.45 IE. = 1852.82 (E)	STA. 19+27.12; L KINGSTON ST
CB #63	RIM. = 1850.82 IE. = 1847.18 (SE)	STA. 20+68.04; L KINGSTON ST
CB #65	RIM. = 1828.52 IE. = 1826.31 (SE)	STA. 27+35.14; L ALBANY LN
CB #71	RIM. = 1856.45 IE. = 1852.82 (W)	STA. 19+27.12; R KINGSTON ST
SDMH #117	RIM. = 1828.37 IE. = 1824.40 (SW) IE. = 1824.00 (N) IE. = 1825.66 (NW) IE. = 1824.40 (S)	STA. 25+07.35; L WALDEN ST
SDMH #139	RIM. = 1825.12 IE. = 1819.70 (W)	STA. 23+00.88; R KINGSTON ST

TABLE:	
1	PEDESTRIAN RAMP TYPE 1 CITY OF SPOKANE STANDARD F-105.
2	CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE.
3	STORM DRAIN PIPE. SEE STORM PIPE TABLE.
4	SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101
5	SWALE. SEE DETAIL ON SHEETS 17 & 18.
6	STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
11	CURB DOW INLET WITH SIDEWALK UNDER

1836

1837

DRY UTILITY EASEMENT

100'

0'

100'

0'

1836

1837

SWALE

1

2

3

4

5

6

7

8

9

10

INTERNAL ROAD SECTION. SEE SHEET 14.

STORM DRAIN PIPE. SEE PROFILE

NOT USED.

NOT USED.

CONCRETE DRIVEWAY APPROACH PER CITY OF SPOKANE STANDARD PLAN F-104.

NOT USED.

LINE	LENGTH	DIRECTION
L9	369.75	N87°00'31"E
L10	249.78	N12°22'45"E
L11	132.22	N12°22'45"E
L12	59.40	N39°08'47"E
L13	52.41	N87°00'31"E

CENTERLINE CURVE TABLE			
CURVE	RADIUS	LENGTH	CHORD
C3	150.00	99.83	N20°04'51"E
C7	100.00	130.25	N49°41'38"E
C8	200.00	119.84	N29°32'42"E
C9	200.00	119.84	N29°32'42"E

GRAPHIC SCALE

(IN FEET)

HORZ: 1 inch = 50 ft.
VERT: 1 inch = 10 ft.



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS: KINGSTON ST & ALBANY AVE ROAD & DRAINAGE

TYPE OF IMPROVEMENT: SITE/DRAINAGE	
PROJECT NO.	PLAN NO.

PLAN & PROFILE STA 16+20 TO 16+30

CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS

NAVD88 = ESTABLISHED FROM GPS

	NAVD88 ELEV: 1843.8
--	---------------------

CBM NO. :

25' 0' 25' 50'


SCALE IN FEET

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE	HORIZONTAL SCALE (22 x 34)
	VERTICAL SCALE (22 x 34)

	BY	DATES
'	DRAWN: LMC	3/3/2023
'	APPROVED: JDS	01/19/2024

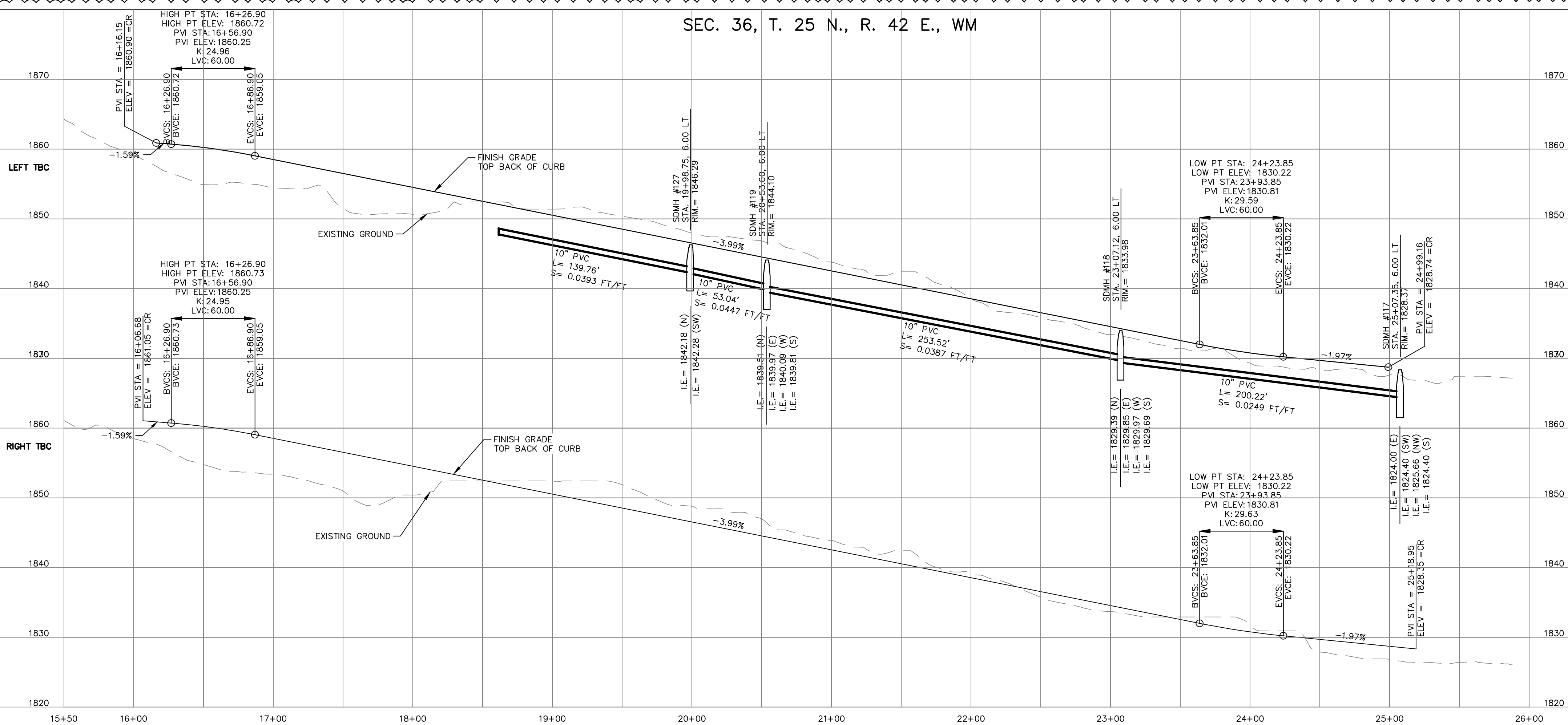
SE#19-342



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICE
WEST SPOKANE FALLS BLVD. SPOKANE
WASHINGTON 99201-3343 (509) 625-67

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 80
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

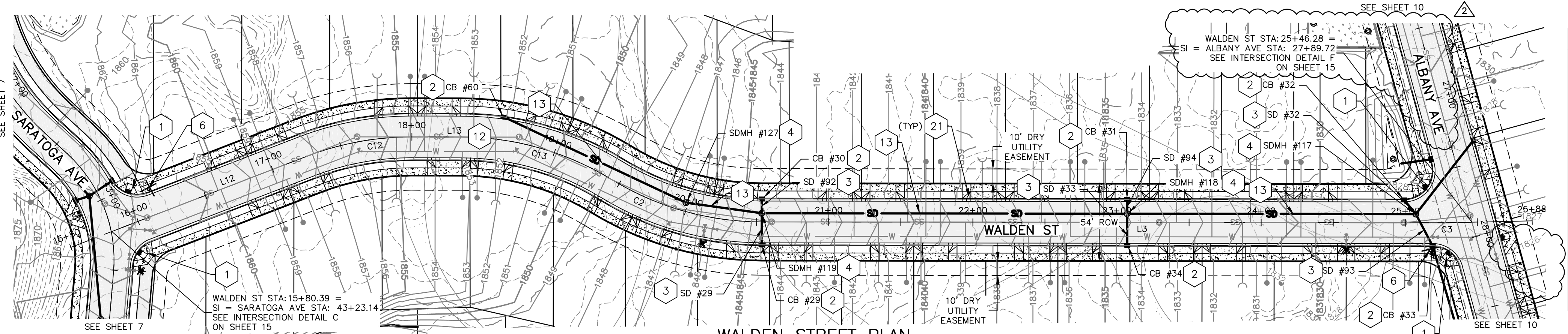
SEC. 36, T. 25 N., R. 42 E., WM



WALDEN STREET PROFILE

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L3	473.97	N12°22'45"E
L4	58.07	N11°00'59"E
L12	175.39	N08°49'37"W
L13	34.78	N12°22'45"E

CENTERLINE CURVE TABLE			
CURVE	RADIUS	LENGTH	CHORD
C2	200.00	109.70	N28°05'33"E
C3	100.00	2.38	N11°41'52"E
C12	200.00	74.02	N01°46'34"E
C13	200.00	109.72	N28°05'41"E



WALDEN STREET PLAN

STORM PIPE TABLE	
NAME	DETAILS
SD #29	8" PVC L= 21.9 S= 0.0100 FT/FT
SD #32	8" PVC L= 12.9 S= 0.0100 FT/FT
SD #33	8" PVC L= 200.22 S= 0.0249 FT/FT
SD #92	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #93	12" PVC L= 24.8 S= 0.0105 FT/FT
SD #94	8" PVC L= 9.9 S= 0.0100 FT/FT

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #29	RIM.= 1843.82 I.E.= 1840.19 (W)	STA. 20+53.60; RT WALDEN ST
CB #30	RIM.= 1843.82 I.E.= 1840.19 (E)	STA. 20+53.60; LT WALDEN ST
CB #31	RIM.= 1833.70 I.E.= 1830.07 (E)	STA. 23+07.12; LT WALDEN ST
CB #32	RIM.= 1828.07 I.E.= 1824.53 (NE)	STA. 24+99.16; LT WALDEN ST
CB #33	RIM.= 1827.77 I.E.= 1823.74 (W) I.E.= 1823.64 (E)	STA. 25+18.95; RT WALDEN ST
CB #34	RIM.= 1833.70 I.E.= 1830.07 (W)	STA. 23+07.12; RT WALDEN ST
CB #60	RIM.= 1851.58 I.E.= 1847.77 (NE)	STA. 18+61.59; LT WALDEN ST

NOTES:

- SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET.
- ALL CURB AND OFFSET DATA IS REFERENCED TO BACK OF CURB, UNLESS OTHERWISE NOTED.
- EXISTING UTILITY LINE LOCATIONS HAVE BEEN EXTRACTED FROM RECORD UTILITY DRAWINGS AND FOUND SURFACE FEATURES. FIELD VERIFY EXACT LOCATIONS.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. COORDINATE WITH THE APPLICABLE UTILITY COMPANY.
6. 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER D.I. STORM DRAIN PIPES, 3.0' (MIN.) OVER ALL OTHERS.
- CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
- ALL STATIONING REFERENCES WALDEN STREET ALIGNMENT.
- SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY OF SPOKANE SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION.
- CATCH BASINS ON GRADE
RIM = FLOWLINE - 0.08'
CATCH BASINS IN SUMP CONDITION
RIM = FLOWLINE - 0.17'

TABLE:

- PEDESTRIAN RAMP TYPE 1 CITY OF SPOKANE STANDARD F-105.
- CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE.
- STORM DRAIN PIPE. SEE STORM PIPE TABLE.
- SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101.
- NOT USED.

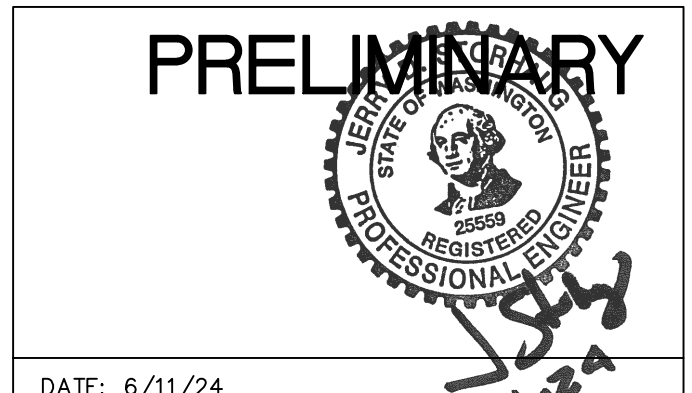
- STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
- INTERNAL ROAD SECTION. SEE SHEET 14.
- STORM DRAIN PIPE. SEE PROFILE.
- NOT USED.
- CONCRETE DRIVEWAY APPROACH PER CITY OF SPOKANE STANDARD PLAN F-104.
- NOT USED.



SE #19-342



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
WALDEN STREET ROAD & DRAINAGE
PLAN & PROFILE STA 15+80 TO STA 25+67

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO.	PLAN NO.
2023519/2023520	WALDE S (02) 4 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

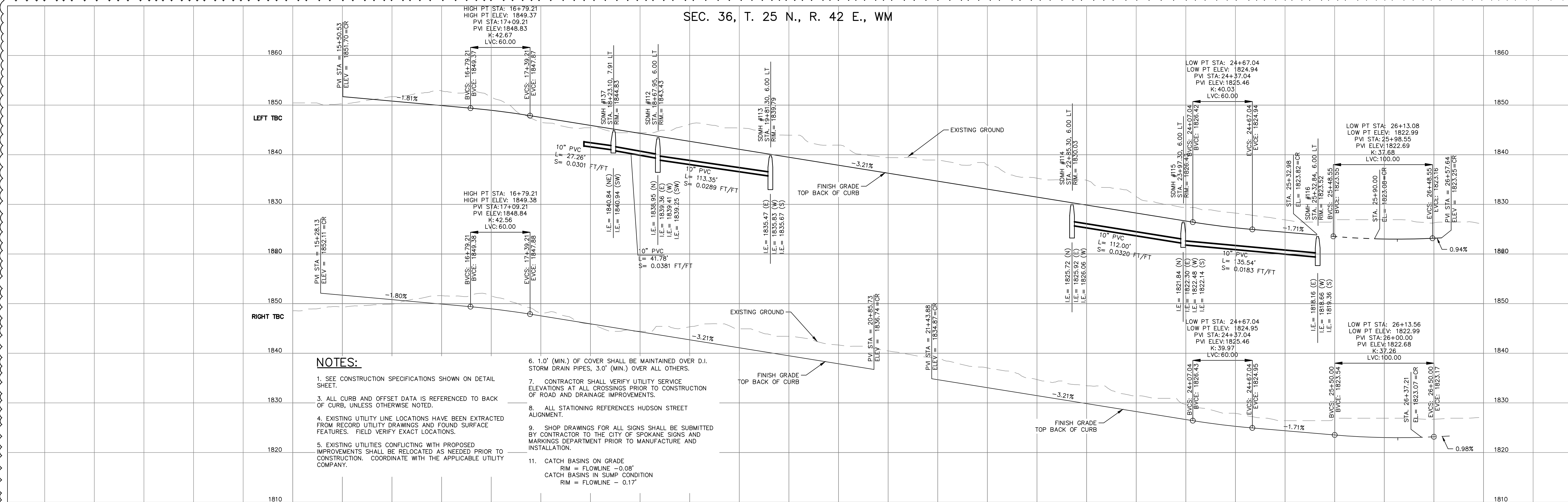
REVISIONS		NAVD88 = ESTABLISHED FROM GPS	
DATE	BY	PROJECT	DESCRIPTION
5/14/25	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE
HORIZONTAL SCALE (22 x 34) 1"=50'
VERTICAL SCALE (22 x 34) 1"=10'

BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024

SEC. 36, T. 25 N., R. 42 E., WM



NOTES:

- SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET.
- ALL CURB AND OFFSET DATA IS REFERENCED TO BACK OF CURB, UNLESS OTHERWISE NOTED.
- EXISTING UTILITY LINE LOCATIONS HAVE BEEN EXTRACTED FROM RECORD UTILITY DRAWINGS AND FOUND SURFACE FEATURES. FIELD VERIFY EXACT LOCATIONS.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. COORDINATE WITH THE APPLICABLE UTILITY COMPANY.
- CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
- ALL STATIONING REFERENCES HUDSON STREET ALIGNMENT.
- SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY OF SPOKANE SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION.
- CATCH BASINS ON GRADE
RIM = FLOWLINE -0.08'
CATCH BASINS IN SUMP CONDITION
RIM = FLOWLINE -0.17'

NAME	DETAILS
SD #25	8" D.I. L= 31.9 S= 0.0100 FT/FT
SD #26	10" PVC L= 28.0 S= 0.0182 FT/FT
SD #27	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #28	12" PVC L= 25.7 S= 0.1047 FT/FT
SD #42	18" CPEP L= 9.9 S= 0.0062 FT/FT
SD #43	24" PVC L= 14.9 S= 0.0050 FT/FT

NAME	DETAILS
SD #44	8" PVC L= 21.9 S= 0.0100 FT/FT
SD #49	8" D.I. L= 46.9 S= 0.0260 FT/FT
SD #50	8" PVC L= 21.9 S= 0.0100 FT/FT
SD #64	8" CPEP L= 21.9 S= 0.0100 FT/FT
SD #91	10" PVC L= 21.9 S= 0.0050 FT/FT
SD #98	24" PVC L= 21.9 S= 0.0050 FT/FT

NAME	DETAILS
SD #99	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #100	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #109	8" PVC L= 9.9 S= 0.0100 FT/FT
SD #115	8" CPEP L= 31.8 S= 0.0080 FT/FT
SD #116	10" CPEP L= 37.6 S= 0.0050 FT/FT

SEE SHEET 7

HUDSON STREET PROFILE

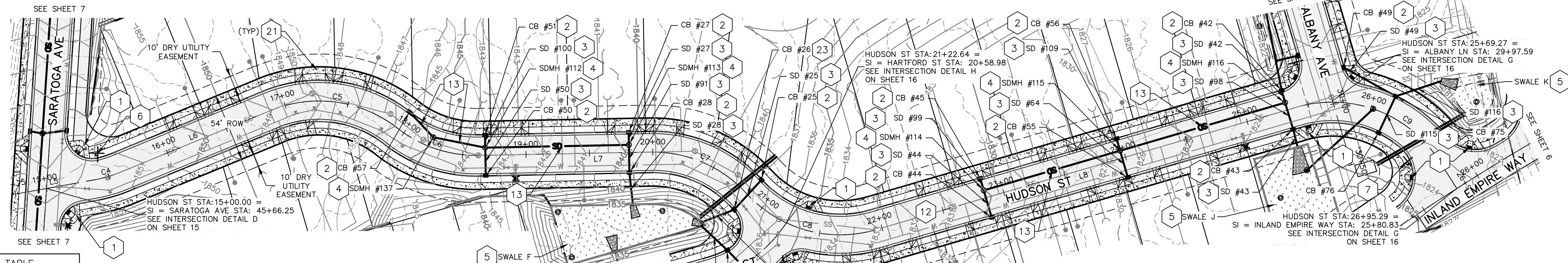
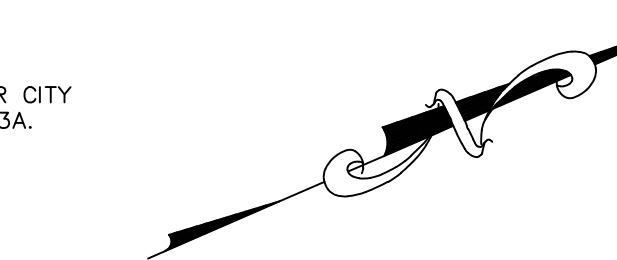


TABLE:

- PEDESTRIAN RAMP TYPE 1 CITY OF SPOKANE STANDARD F-105.
- CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE.
- STORM DRAIN PIPE. SEE STORM PIPE TABLE.
- SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101
- SWALE. SEE DETAIL ON SHEETS 17 & 18
- STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
- STOP SIGN/STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93.
- CURB DROP INLET WITH SIDEWALK UNDER DRAIN. SEE SHEET 18 FOR DETAILS.
- INTERNAL ROAD SECTION. SEE SHEET 14.
- STORM DRAIN PIPE. SEE PROFILE.
- NOT USED.
- NOT USED.
- NOT USED.
- CONCRETE DRIVEWAY APPROACH PER CITY OF SPOKANE STANDARD PLAN F-103A.

HUDSON STREET PLAN



(IN FEET)

HORZ: 1 inch = 50 ft.

VERT: 1 inch = 10 ft.

SE #19-342

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700



BY: LMC
DATE: 3/3/2023
DRAWN: LMC
APPROVED: JDS
DATE: 01/19/2024

CENTERLINE LINE TABLE

LINE	LENGTH	DIRECTION
L5	63.53	N03°13'31"E
L6	128.52	N08°49'37"W
L7	135.75	N12°22'45"E
L8	346.03	N02°44'38"W

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD
C4	100.00	21.04	N02°48'03"W
C5	100.00	105.67	N21°26'39"E
C6	100.00	68.65	N32°02'50"E
C7	100.00	85.09	N36°45'24"E
C8	100.00	111.49	N29°11'42"E
C9	100.00	128.68	N34°07'09"E

PRELIMINARY



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
HUDSON STREET ROAD & DRAINAGE
PLAN & PROFILE STA 15+00 TO STA 27+61

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO. PLAN NO.

2023519/2023520 HUDSO S (02) 4
36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

DATE	BY	PROJECT	DESCRIPTION
5/14/25	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

NAVD88 = ESTABLISHED FROM GPS

NAVD88 ELEV.: 1843.87

CBM NO. :

NAVD88 DATUM

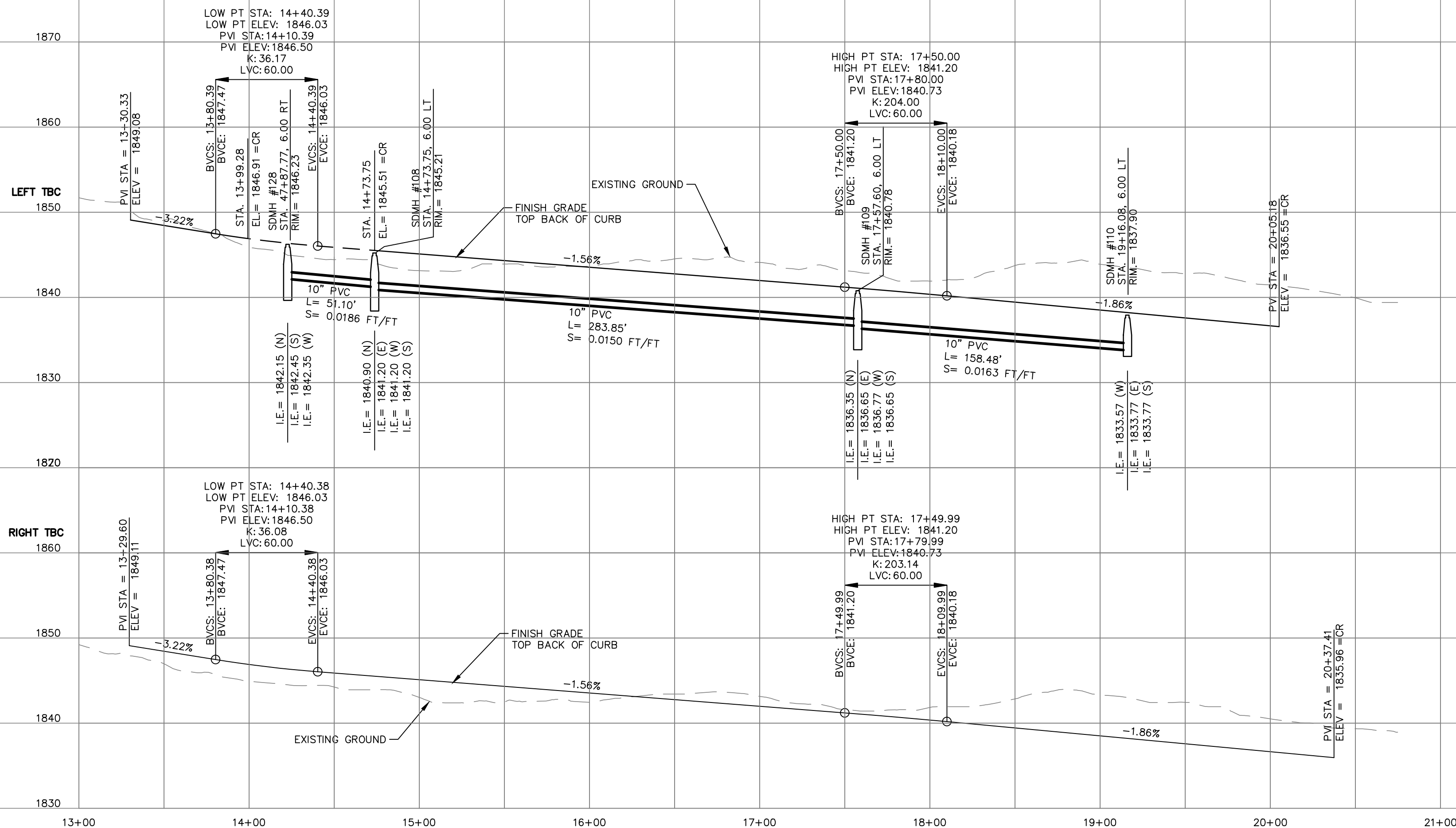
SCALE IN FEET

25' 0' 25' 50'

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE
HORIZONTAL SCALE (22 x 34) 1"=50'
VERTICAL SCALE (22 x 34) 1"=10'

SEC. 36, T. 25 N., R. 42 E., WM



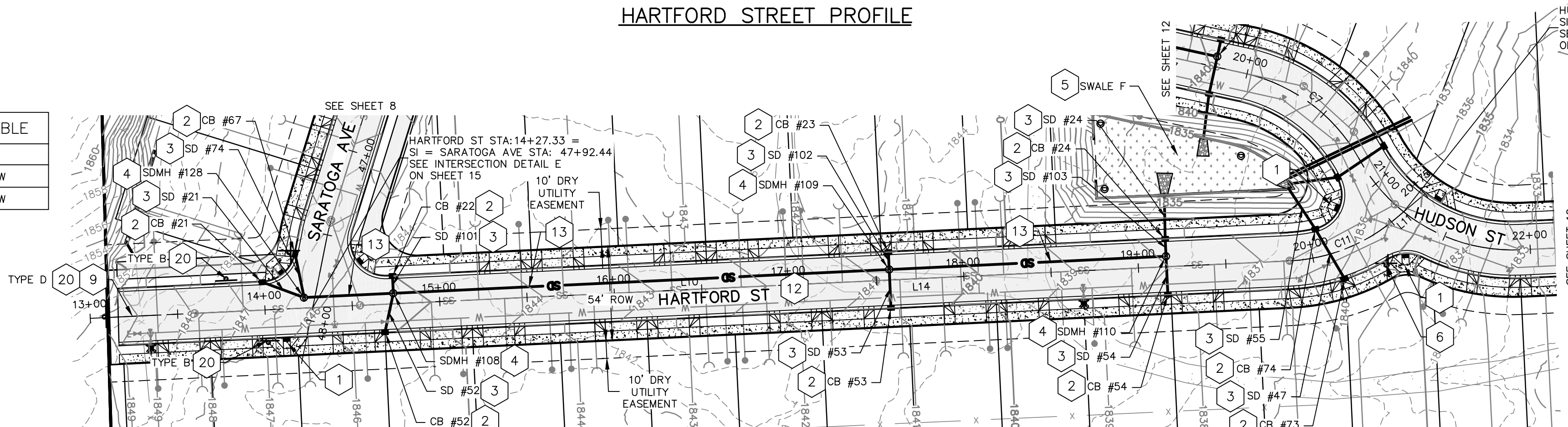
NOTES:

- SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET.
- ALL CURB AND OFFSET DATA IS REFERENCED TO BACK OF CURB, UNLESS OTHERWISE NOTED.
- EXISTING UTILITY LINE LOCATIONS HAVE BEEN EXTRACTED FROM RECORD UTILITY DRAWINGS AND FOUND SURFACE FEATURES. FIELD VERIFY EXACT LOCATIONS.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. COORDINATE WITH THE APPLICABLE UTILITY COMPANY.
- 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER D.I. STORM DRAIN PIPES, 3.0' (MIN.) OVER ALL OTHERS.
- CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
- ALL STATIONING REFERENCES HARTFORD STREET ALIGNMENT.
- SHOP DRAWINGS FOR ALL SIGNS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY OF SPOKANE SIGNS AND MARKINGS DEPARTMENT PRIOR TO MANUFACTURE AND INSTALLATION.
- CATCH BASINS ON GRADE
RM = FLOWLINE - 0.08'
CATCH BASINS IN SUMP CONDITION
RM = FLOWLINE - 0.17'

HARTFORD STREET PROFILE

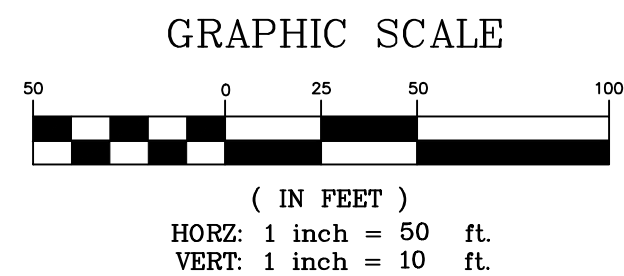
CENTERLINE CURVE TABLE			
CURVE	RADIUS	LENGTH	CHORD
C11	100.00	65.02	N21°22'19"W

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L11	23.27	N40°00'00"W
L14	686.56	N02°44'38"W



HARTFORD STREET PLAN

- TABLE:**
- | | | | |
|---|---|----|---|
| 1 | PEDESTRIAN RAMP TYPE 1 CITY OF SPOKANE STANDARD F-105. | 9 | BARRICADE PER CITY OF SPOKANE STD PLAN G-92A 3X2 |
| 2 | CATCH BASIN TYPE 1 PER CITY OF SPOKANE STANDARD PLAN B-101C. SEE STORM STRUCTURE TABLE. | 11 | NOT USED. |
| 3 | STORM DRAIN PIPE. SEE STORM PIPE TABLE. | 12 | INTERNAL ROAD SECTION. SEE SHEET 14. |
| 4 | SD MANHOLE WITH FRAME AND SOLID COVER PER CITY OF SPOKANE STD PLAN Z-101 | 13 | STORM DRAIN PIPE. SEE PLAN & PROFILE |
| 5 | SWALE. SEE DETAIL ON SHEETS 17 & 18. | 15 | NOT USED. |
| 6 | STREET NAME SIGN PER CITY OF SPOKANE STD PLANS G-20B, G-22, AND G-93. | 20 | "NO PARKING FIRE LANE" SIGN PER SPOKANE FIRE DEPT STANDARDS. SEE SHEET 14 FOR SIGN TYPE DETAIL AND SPACING STANDARDS. |



STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
CB #21	RM = 1846.33 IE = 1842.70 (N)	STA. 13+99.28; LT HARTFORD ST
CB #22	RM = 1844.93 IE = 1841.30 (E)	STA. 14+73.75; LT HARTFORD ST
CB #23	RM = 1840.50 IE = 1836.87 (E)	STA. 17+57.60; LT HARTFORD ST
CB #24	RM = 1837.62 IE = 1833.27 (W) IE = 1833.52 (E)	STA. 19+16.08; LT HARTFORD ST
CB #52	RM = 1845.52 IE = 1841.89 (W)	STA. 14+67.91; RT HARTFORD ST
CB #53	RM = 1840.50 IE = 1836.87 (W)	STA. 17+57.60; RT HARTFORD ST
CB #54	RM = 1837.62 IE = 1833.99 (W)	STA. 19+16.08; RT HARTFORD ST
CB #67	RM = 1846.23 IE = 1842.60 (E)	STA. 47+64.39; RT SARATOGA AVE
CB #73	RM = 1835.84 IE = 1833.03 (SW)	STA. 20+13.54; RT HARTFORD ST
CB #74	RM = 1835.88 IE = 1832.70 (NE) IE = 1832.60 (SW)	STA. 20+05.18; LT HARTFORD ST

STORM PIPE TABLE	
NAME	DETAILS
SD #21	8" PVC L = 25.4 S = 0.0100 FT/FT
SD #24	15" PVC L = 25.6 S = 0.0301 FT/FT
SD #47	8" CPEP L = 32.9 S = 0.0100 FT/FT
SD #52	8" PVC L = 22.8 S = 0.0303 FT/FT
SD #53	8" PVC L = 21.9 S = 0.0100 FT/FT
SD #54	8" PVC L = 21.9 S = 0.0100 FT/FT
SD #55	10" CPEP L = 28.1 S = 0.0050 FT/FT
SD #74	8" PVC L = 25.4 S = 0.0100 FT/FT
SD #101	8" PVC L = 9.9 S = 0.0100 FT/FT
SD #102	8" PVC L = 9.9 S = 0.0100 FT/FT
SD #103	12" PVC L = 9.9 S = 0.0050 FT/FT

REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
5/14/25	LC	19-342	GENERAL REVISION	NAVD88	ELEV. :1843.87	25'	0'
10/10/24	LC	19-342	GENERAL REVISION	CBM NO. :		25'	0'
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	NAVD88 DATUM		25'	0'
DATE	BY	PROJECT	DESCRIPTION				

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER	SCALE	HORIZONTAL SCALE (22 x 34) 1"=50'	VERTICAL SCALE (22 x 34) 1"=10'
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BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024

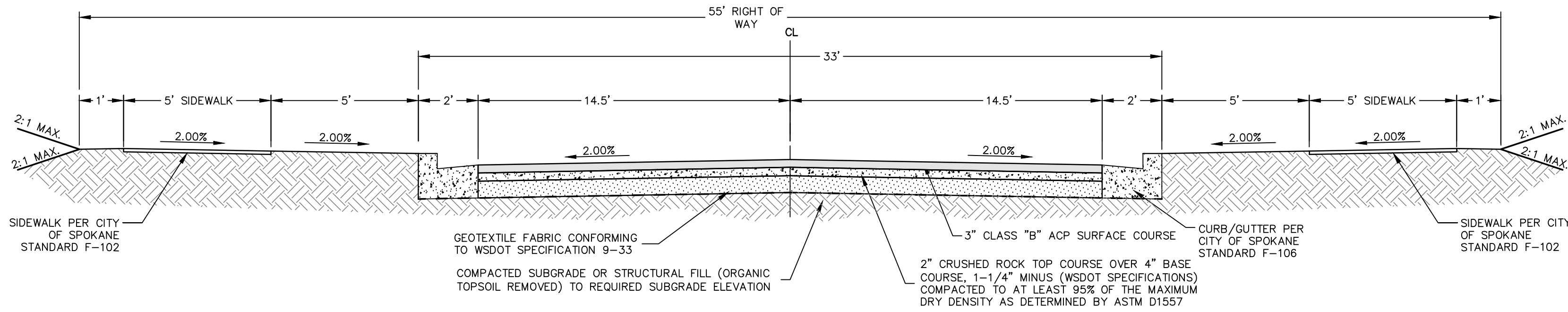
SPOKANE	CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808	WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700

PROJECT NAME:	LATAH GLEN RESIDENTIAL COMMUNITY
SEGMENT LIMITS:	HARTFORD STREET ROAD & DRAINAGE
PROJECT LIMITS:	LATAH GLEN RESIDENTIAL

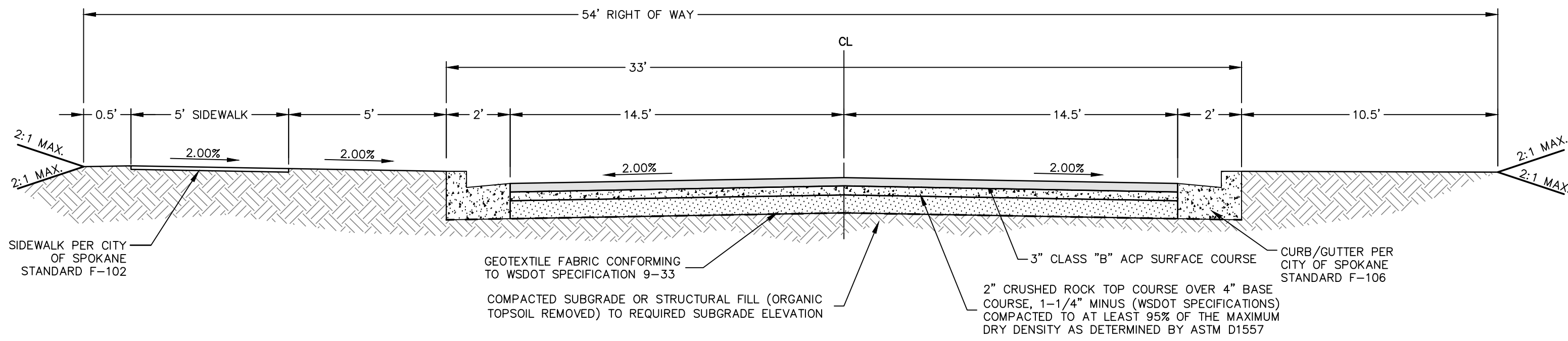
TYPE OF IMPROVEMENT: SITE/DRAINAGE	PROJECT NO.	PLAN NO.
	2023519/2023520	HARTF S (02) 4 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

SEC. 36, T. 25 N., R. 42 E., WM

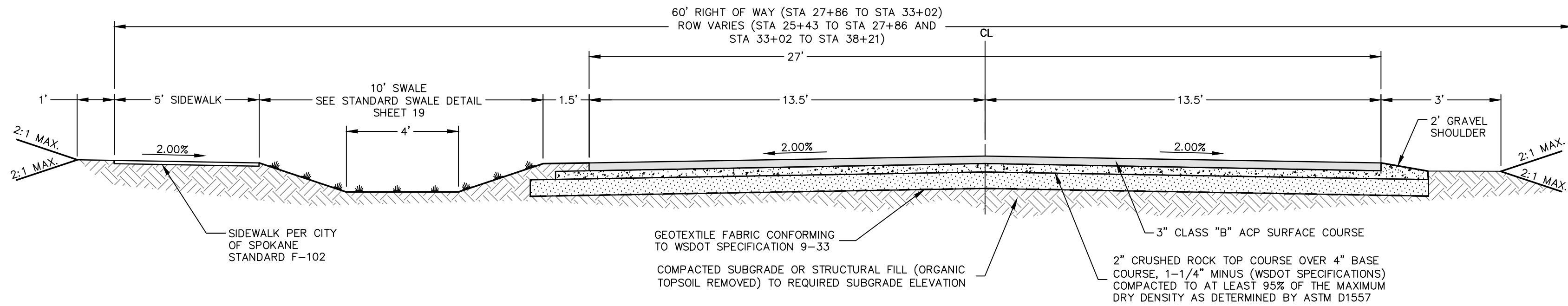


INTERNAL ROAD SECTION



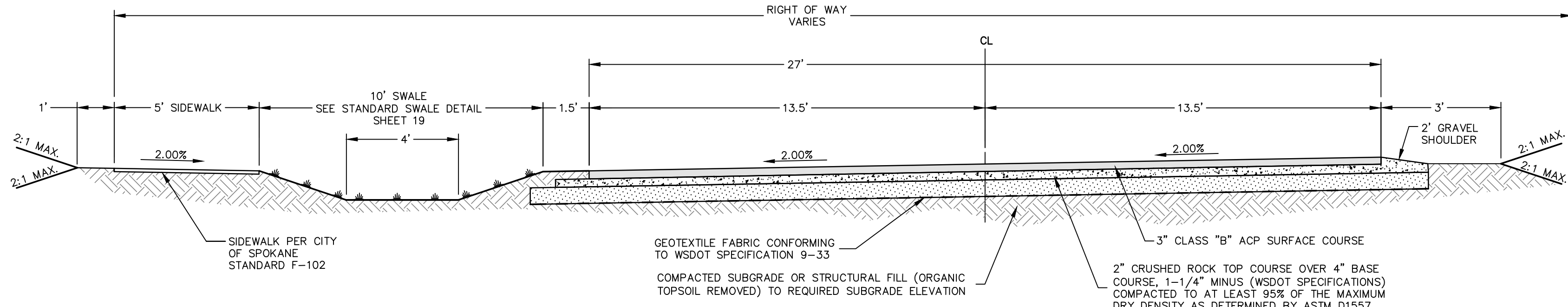
INTERNAL ROAD SECTION
(SIDEWALK ON LEFT SIDE)

SARATOGA AVE: 29+75 TO 38+90



INLAND EMPIRE WAY ROAD SECTION

INLAND EMPIRE WAY: 27+86 TO 32+56
37+14 TO 38+17



INLAND EMPIRE WAY ROAD SECTION SUPERELEVATED

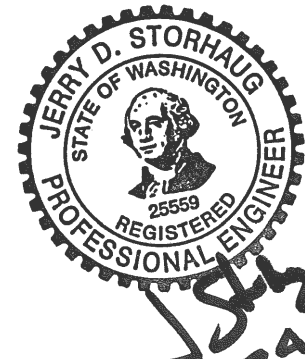
INLAND EMPIRE WAY: 33+06 TO 36+64

Sign Types



NO PARKING FIRE LANE SIGN TYPES

NO PARKING FIRE LANE SIGN NOTE
SIGNS TO BE INSTALLED ON ONE SIDE OF ROAD AS SHOWN ON PLANS.
- 50' ON CENTER ALONG CURVES.
- 140' ON CENTER ALONG TANGENTS.



14
22

REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV. 1843.87	
02/03/25	SE	19-342	COS COMMENTS	CBM NO. :	
12/24/24	LC	19-342	GENERAL REVISION	NAVD88 DATUM	
10/10/24	LC	19-342	GENERAL REVISION		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS		
DATE	BY	PROJECT	DESCRIPTION		

SCALE IN FEET

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE
HORIZONTAL SCALE (22 x 34)
VERTICAL SCALE (22 x 34)

BY
DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 2/3/2025



19-342

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
STREET CROSS SECTIONS

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO. 2023519
PLAN NO. 36-25-43

CALL BEFORE YOU DIG 1-800-424-5555

SARATOGA AVE

KINGSTON ST

1868.12

66.46
67.38

67.57
66.67

66.13
65.63

1865.95

1866.01

66.90
66.40

66.12
65.69

65.94
65.44

65.66
65.16

1866.40

1865.54

4.2%

5.8%

1.0%

3.0%

3.0%

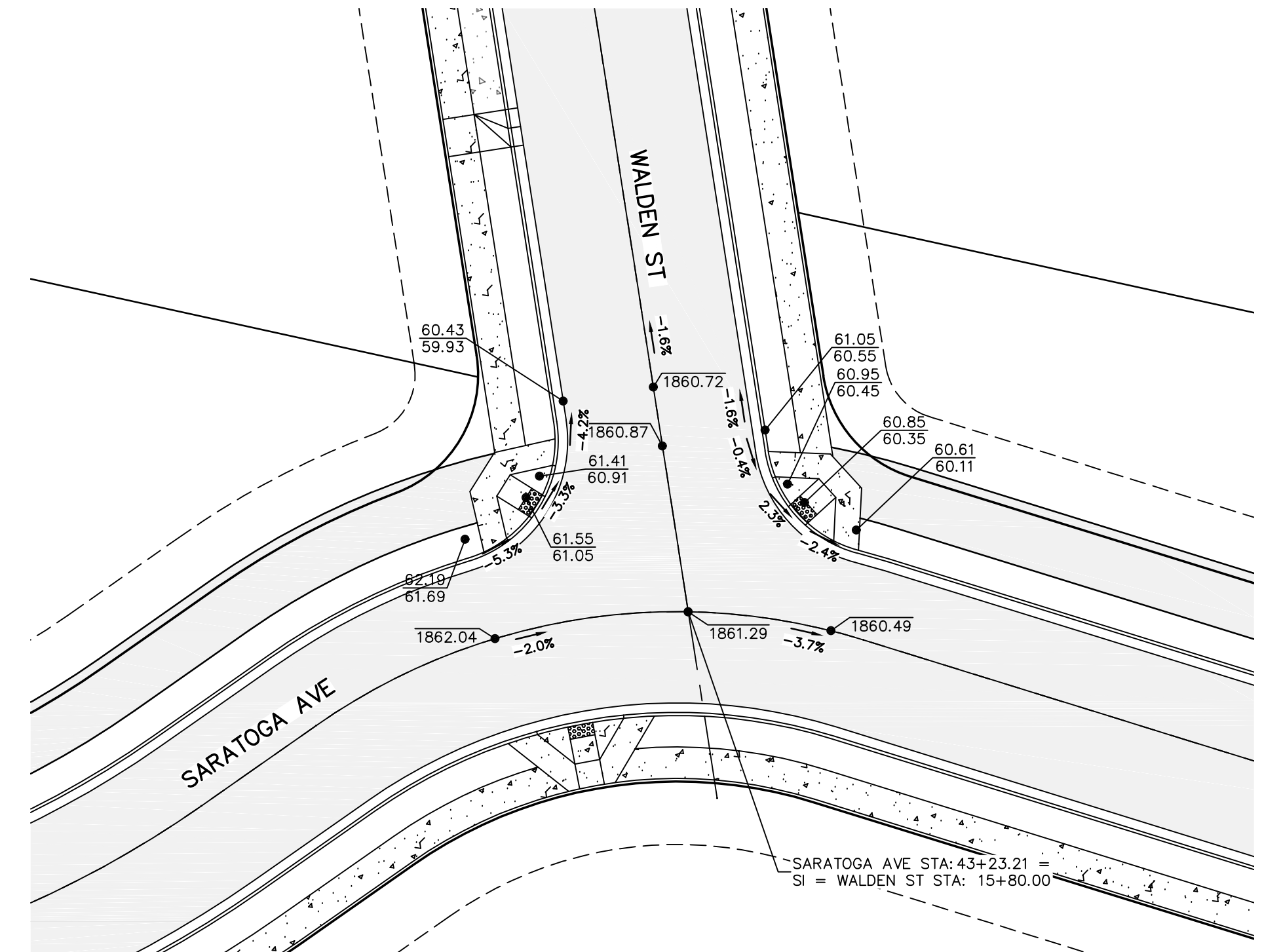
3.0%


SARATOGA AVE STA: 39+28.36 =
ST = KINGSTON ST STA: 16+20.04

[illegible]

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.





35552


15

22

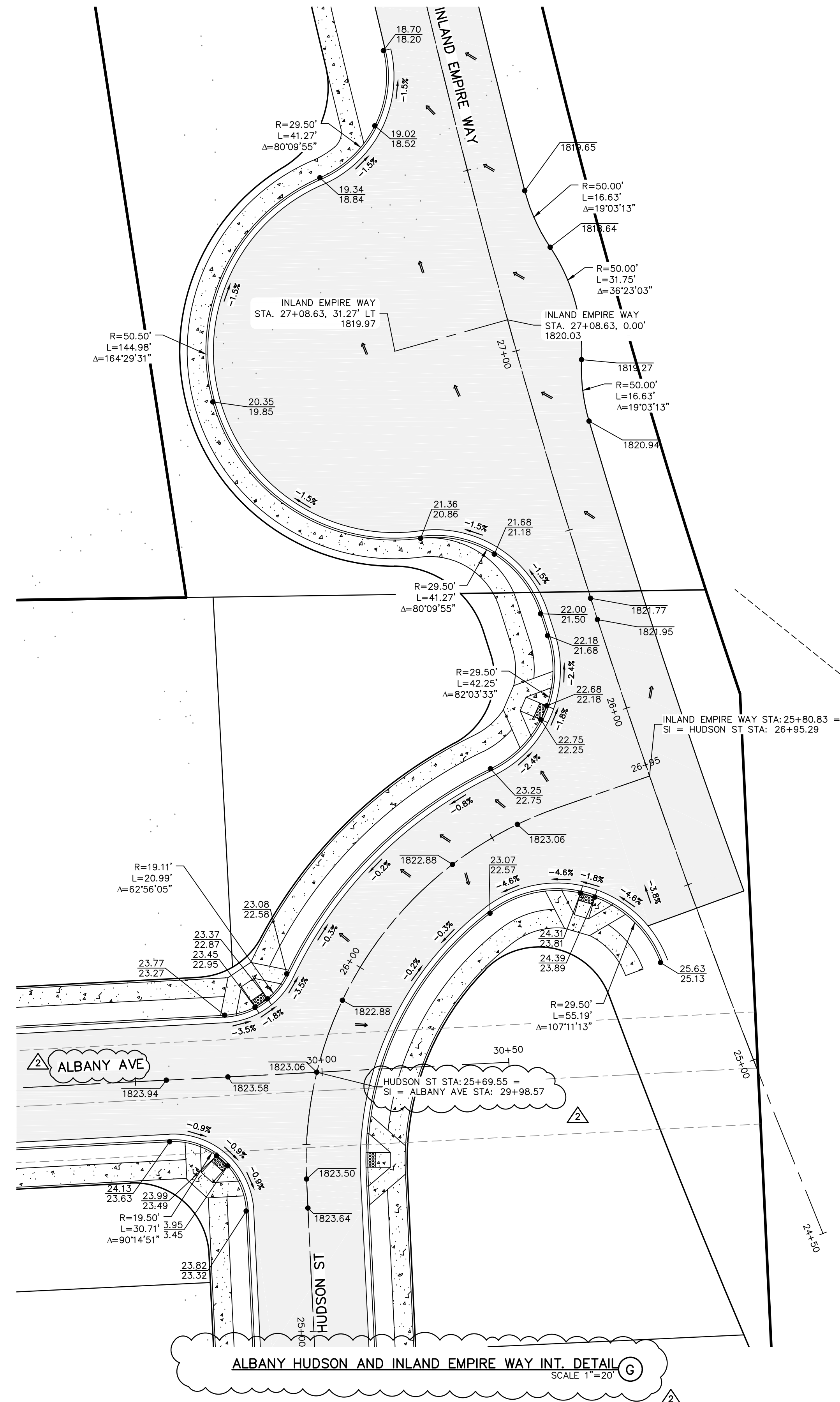

 19-342
 civil engineering | planning
 landscape architecture | surveying
 510 east third avenue | spokane, wa | 99201
 p 509.242.1000 | f 509.242.1001

510 east third avenue | spokane, wa | 99201
p 509.242.1000 | f 509.242.1000

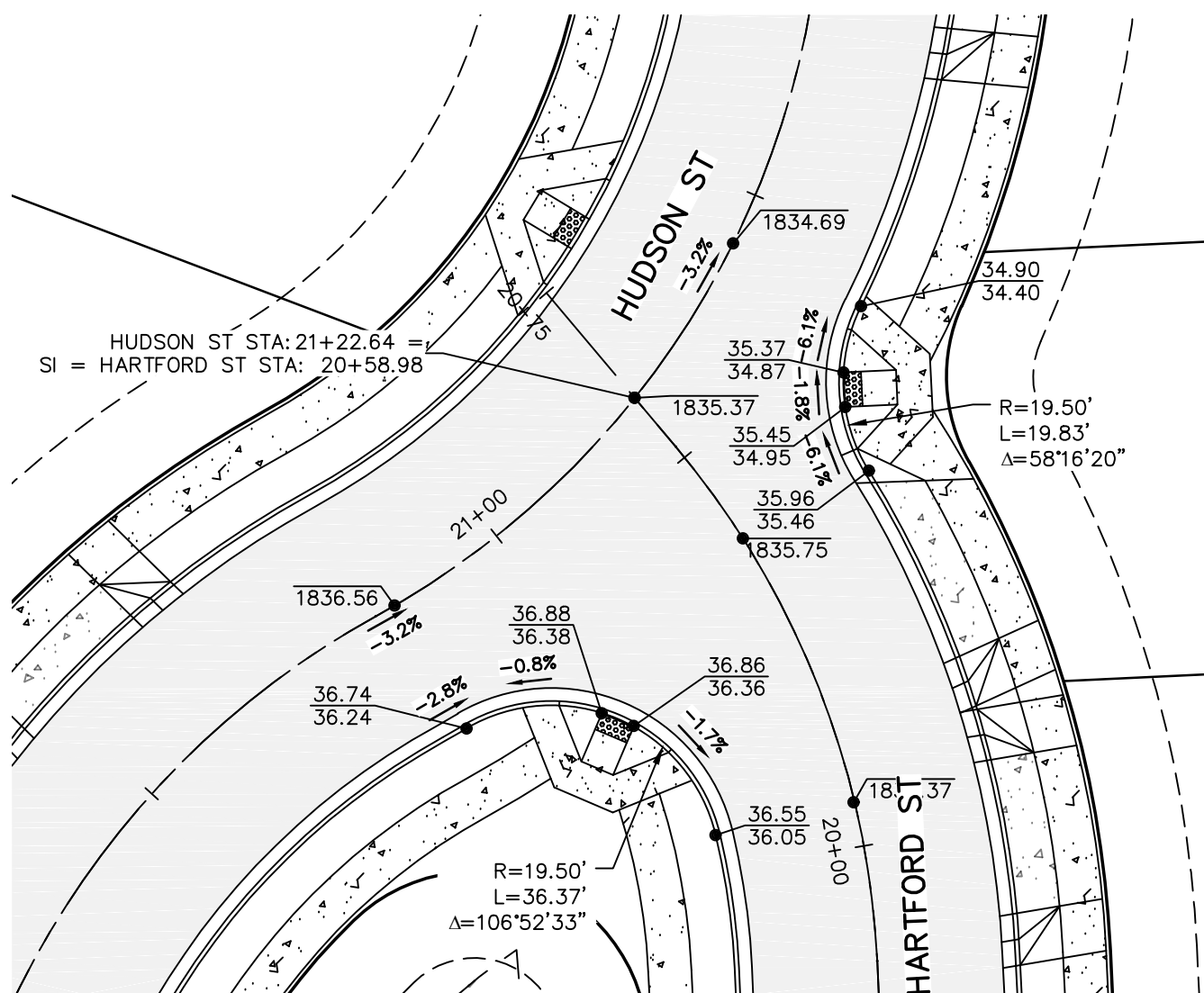
2023519	
2023520	36-25-43



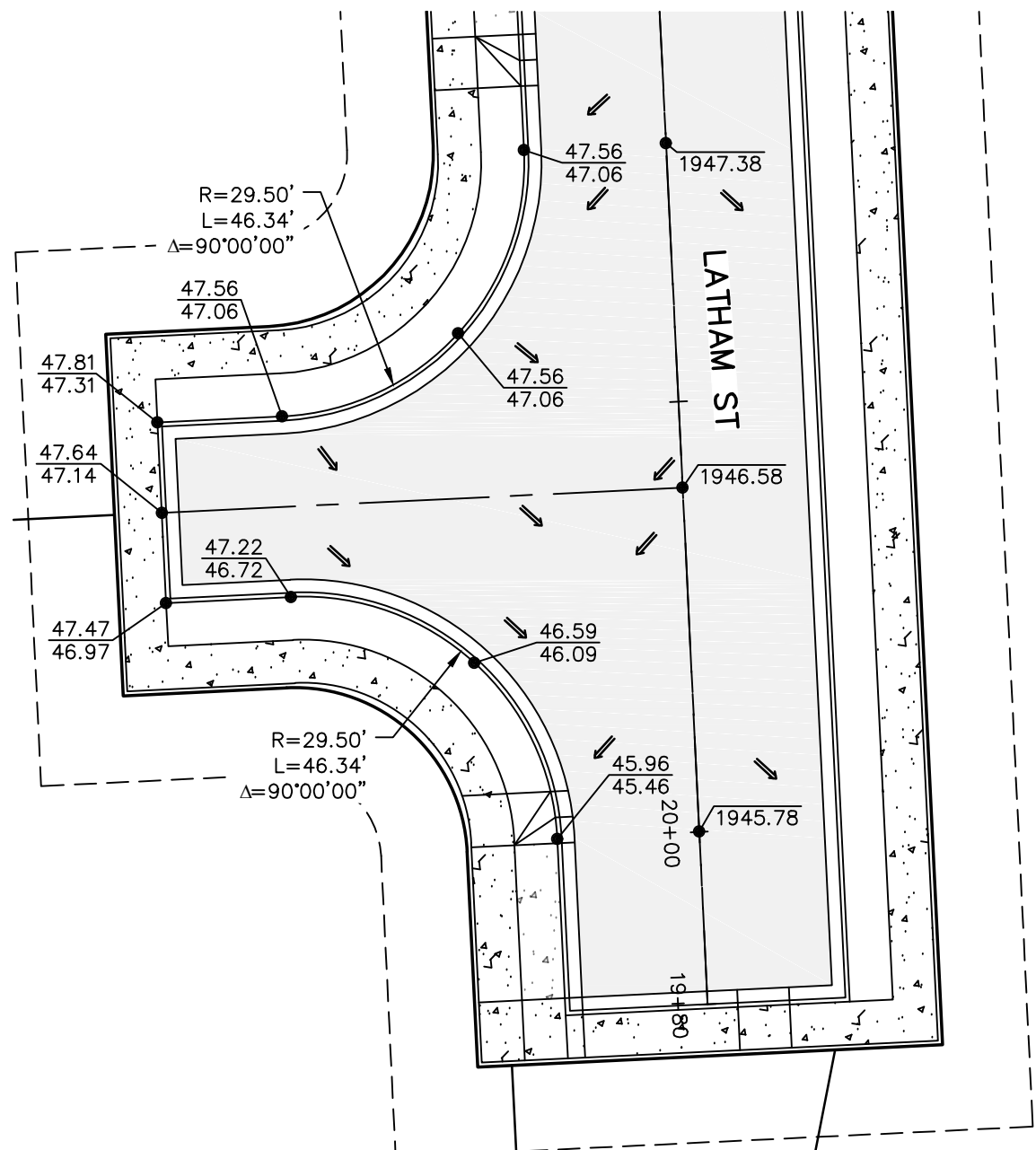
SEC. 36, T. 25 N., R. 42 E., WM



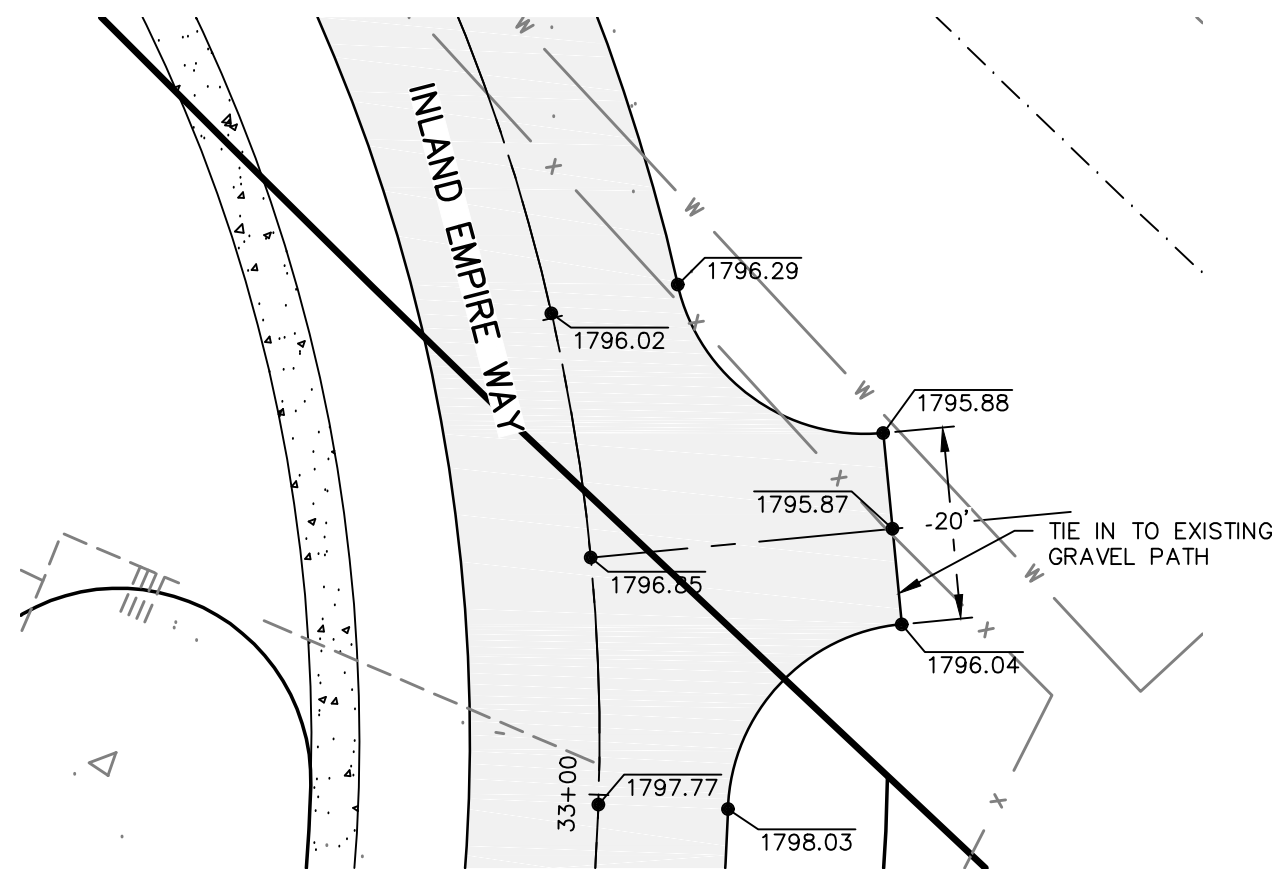
ALBANY HUDSON AND INLAND EMPIRE WAY INT. DETAIL G
SCALE 1"=20'



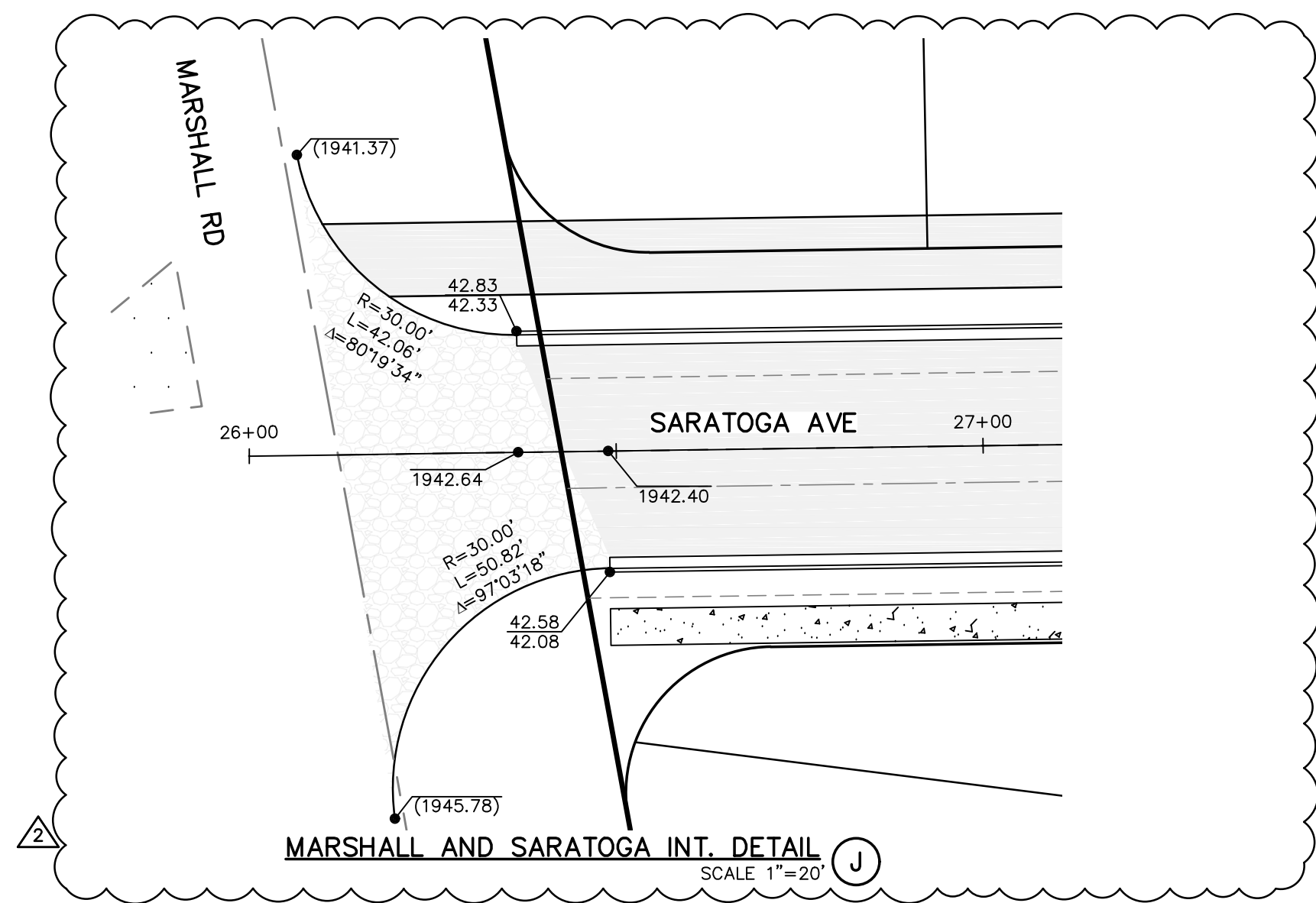
HUDSON & HARTFORD INT. DETAIL H
SCALE 1"=20'



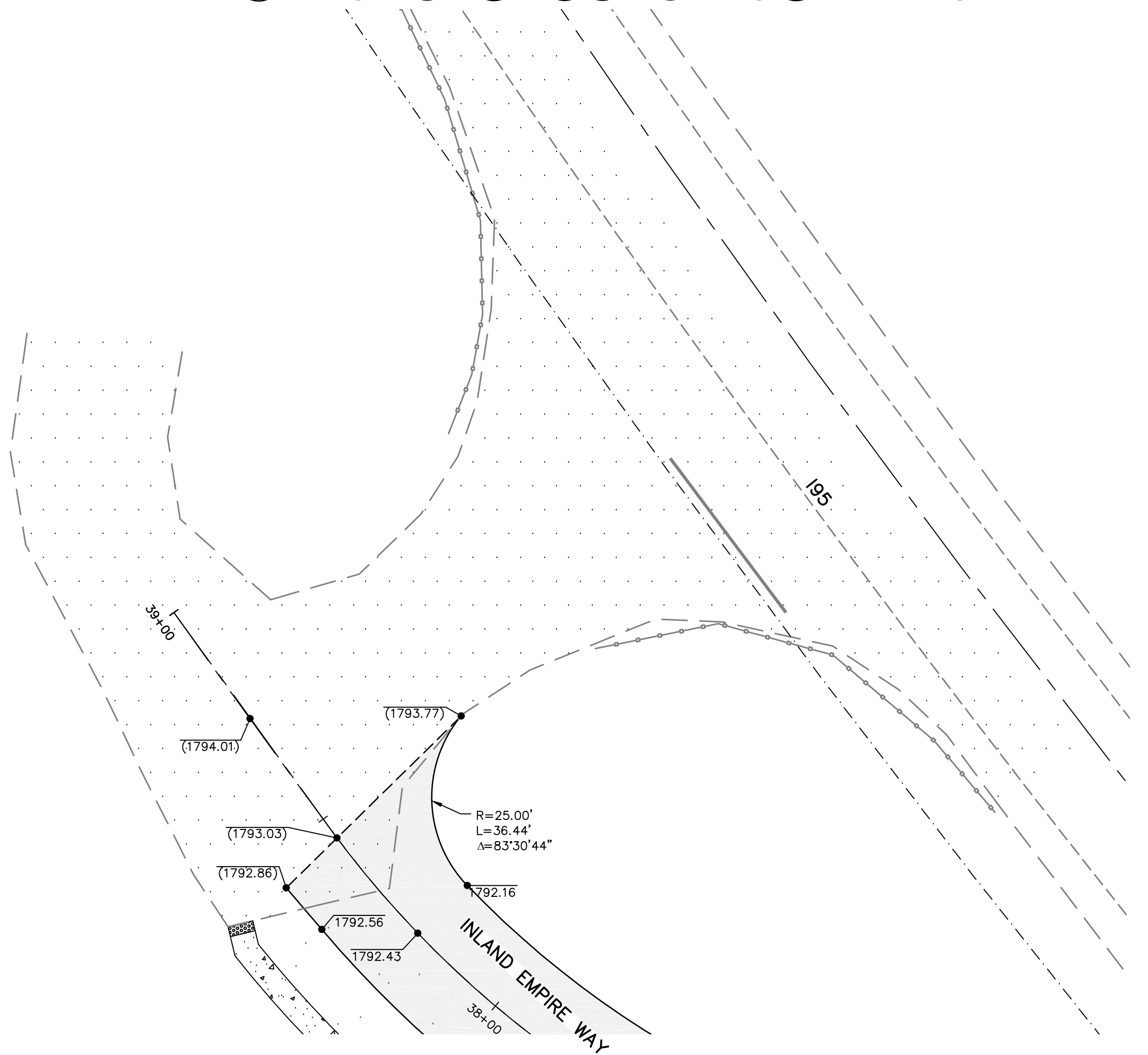
LATHAM ST TURNAROUND DETAIL I
SCALE 1"=20'



INLAND EMPIRE WAY ACCESS DETAIL K
SCALE 1"=20'



MARSHALL AND SARATOGA INT. DETAIL J
SCALE 1"=20'



INLAND EMPIRE WAY AND I95 INT. DETAIL L
SCALE 1"=20'



16
22

REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV. 1843.87	
02/03/25	SE	19-342	COS COMMENTS	CBM NO. :	
12/24/24	LC	19-342	GENERAL REVISION		
10/10/24	LC	19-342	GENERAL REVISION		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS		
DATE	BY	PROJECT	DESCRIPTION	NAVD88 DATUM	

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE IN FEET
10' 0' 10' 20'

SCALE
HORIZONTAL SCALE (22 x 34)
VERTICAL SCALE (22 x 34)

BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 2/3/2025



19-342

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
INTERSECTION DETAILS

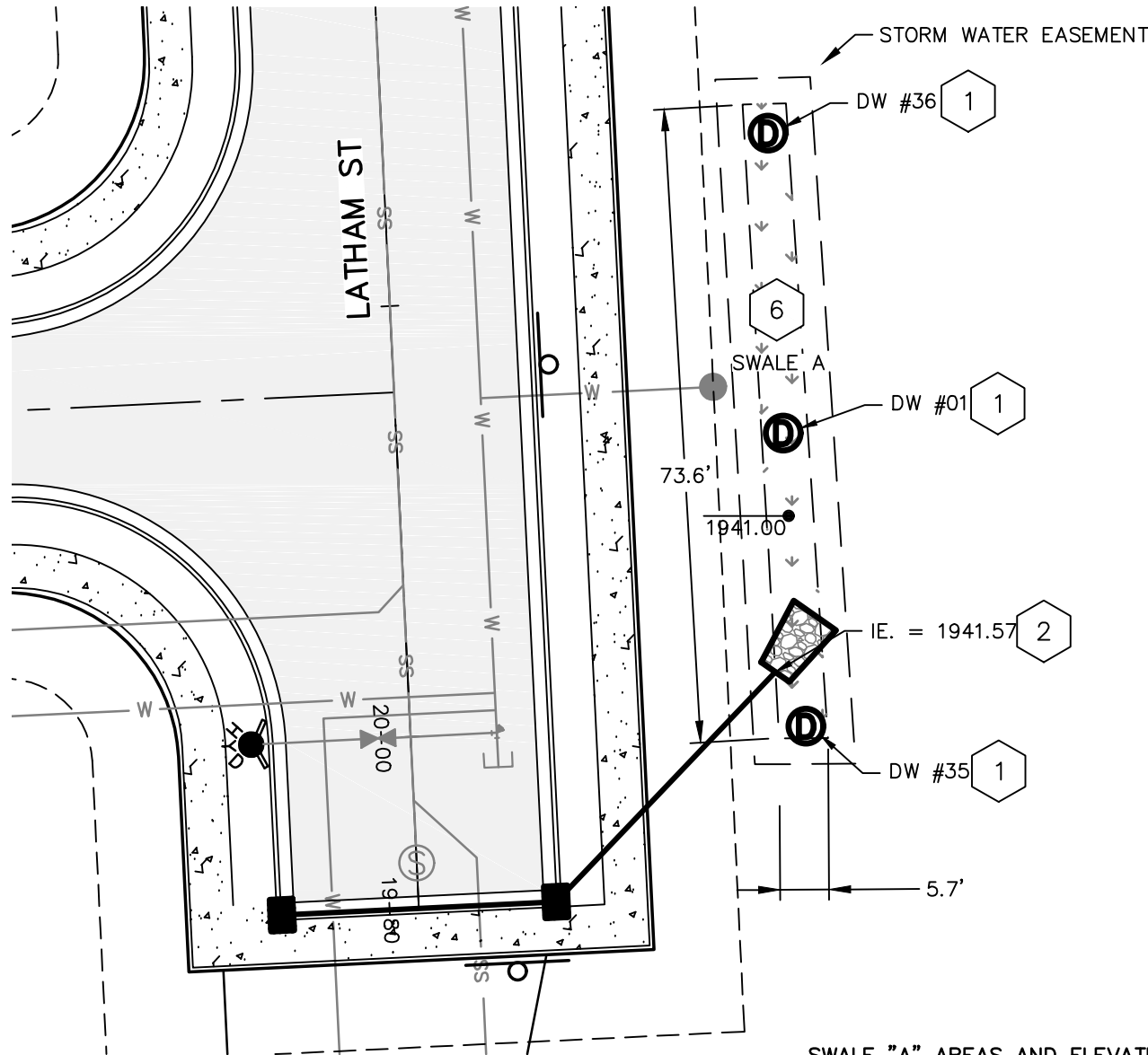
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

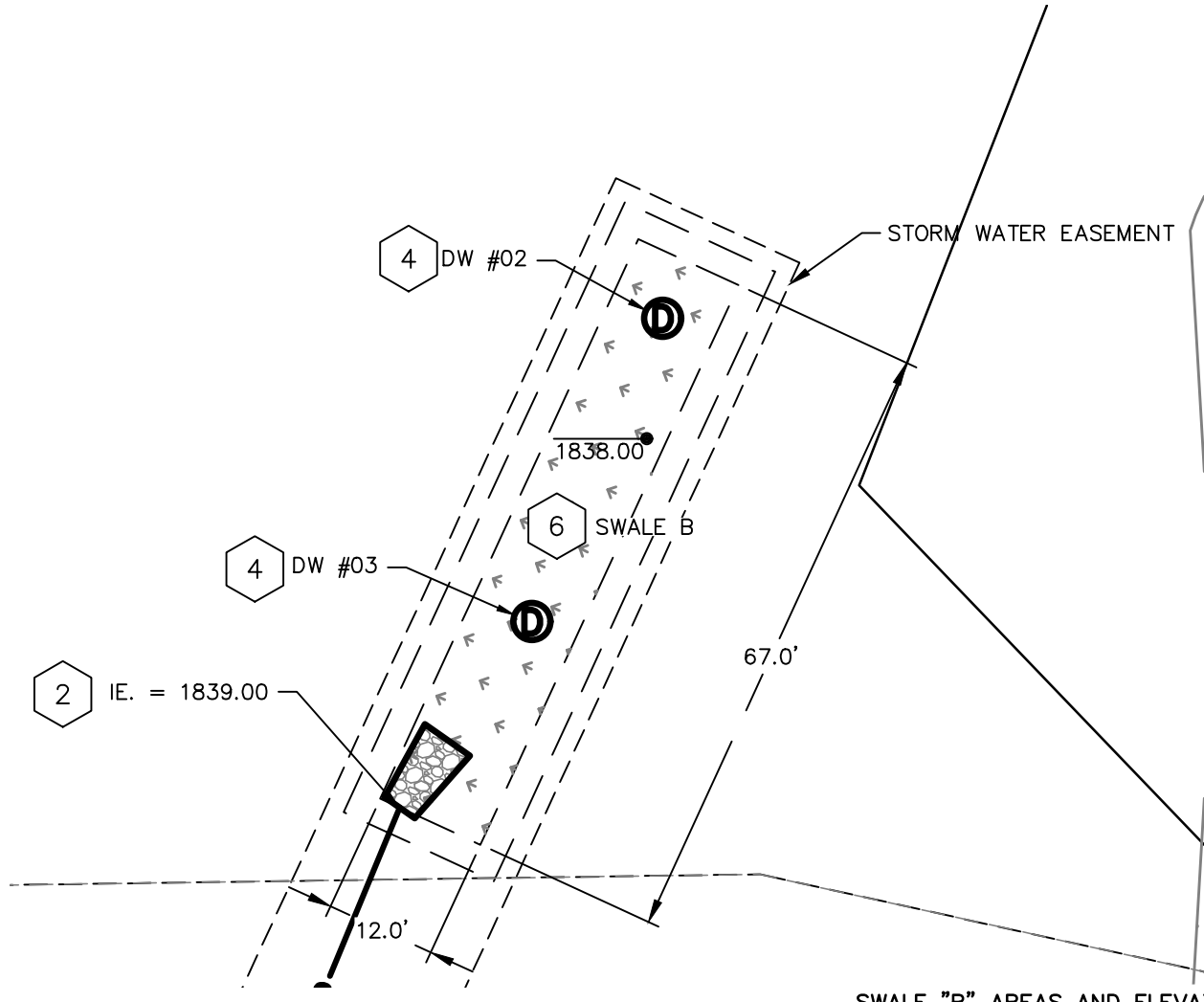
PROJECT NO.	PLAN NO.
2023519	
2023520	36-25-43

CALL BEFORE YOU DIG 1-800-424-5555

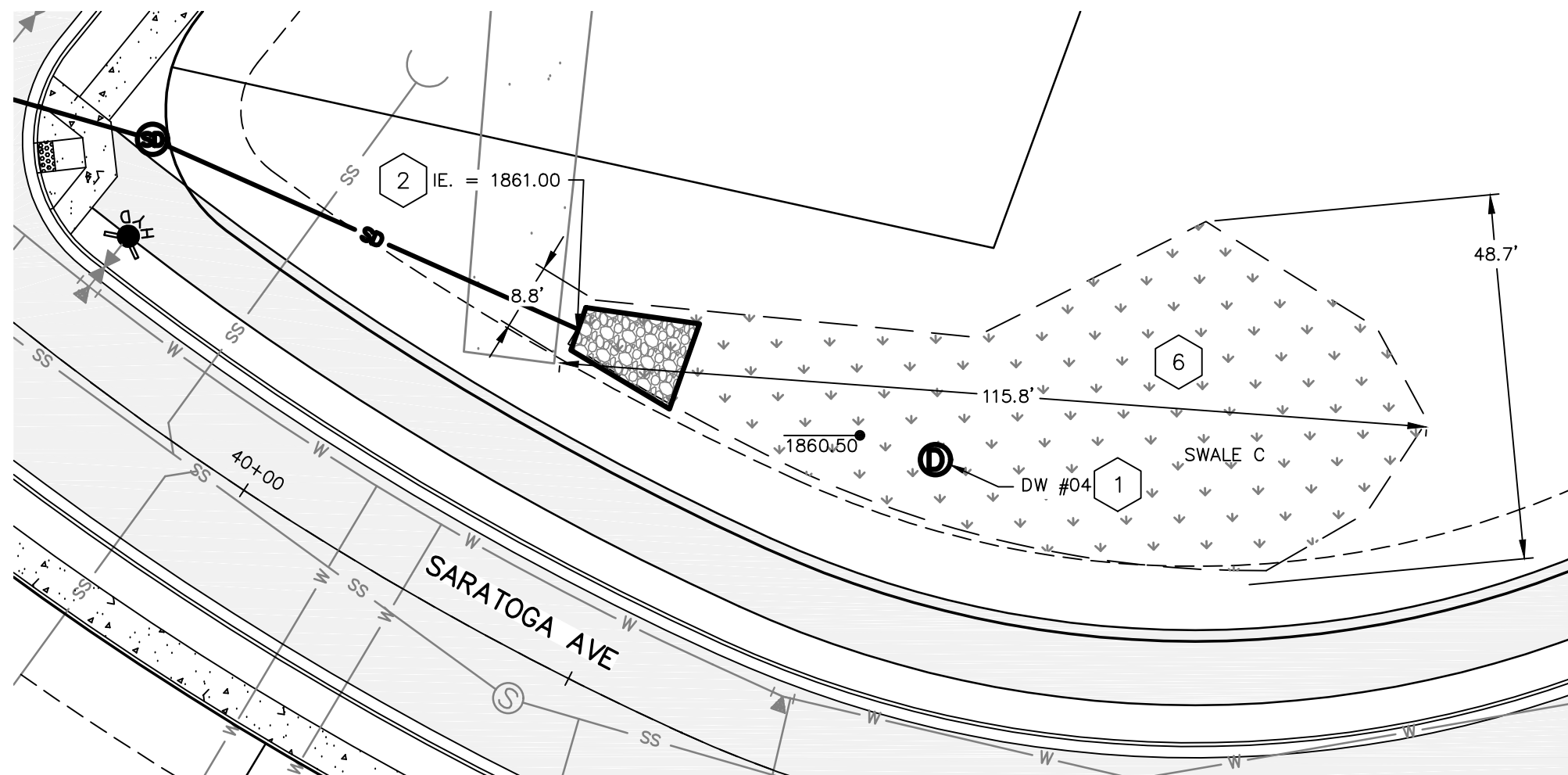
SEC. 36, T. 25 N., R. 42 E., WM



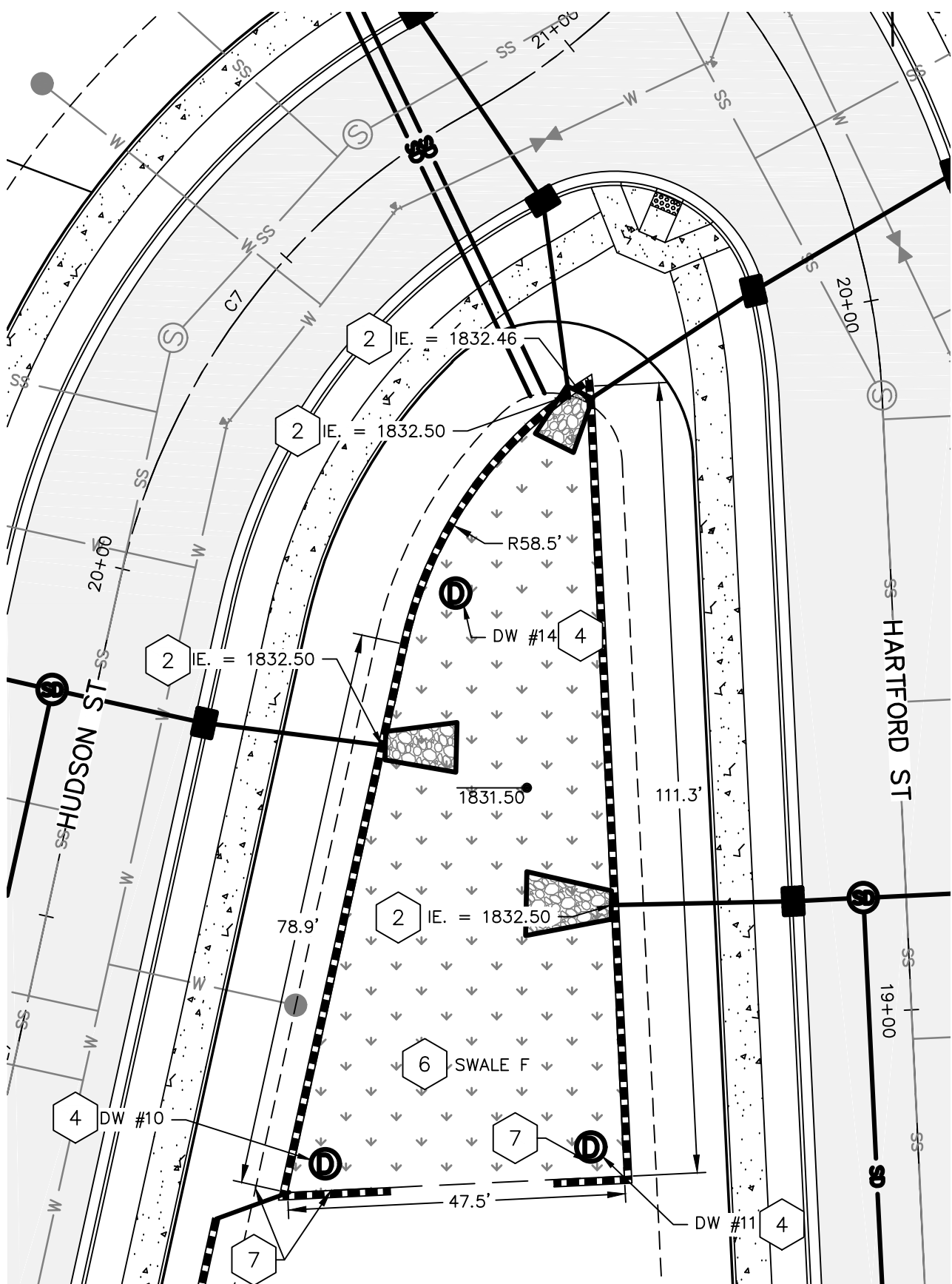
SWALE "A" DETAIL
SCALE 1"=20'
SWALE "A" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1941.00
DRYWELL RIM ELEVATION: 1941.50
BOTTOM AREA: 393 SF
SEE TYPICAL SWALE SECTION A, SHEET 18



SWALE "B" DETAIL
SCALE 1"=20'
SWALE "B" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1838.00
DRYWELL RIM ELEVATION: 1839.00
BOTTOM AREA: 805 SF
SEE TYPICAL SWALE SECTION A, SHEET 18



SWALE "C" DETAIL
SCALE 1"=20'
SWALE "C" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1860.50
DRYWELL RIM ELEVATION: 1861.50
BOTTOM AREA: 1806 SF
SEE TYPICAL SWALE SECTION A, SHEET 18



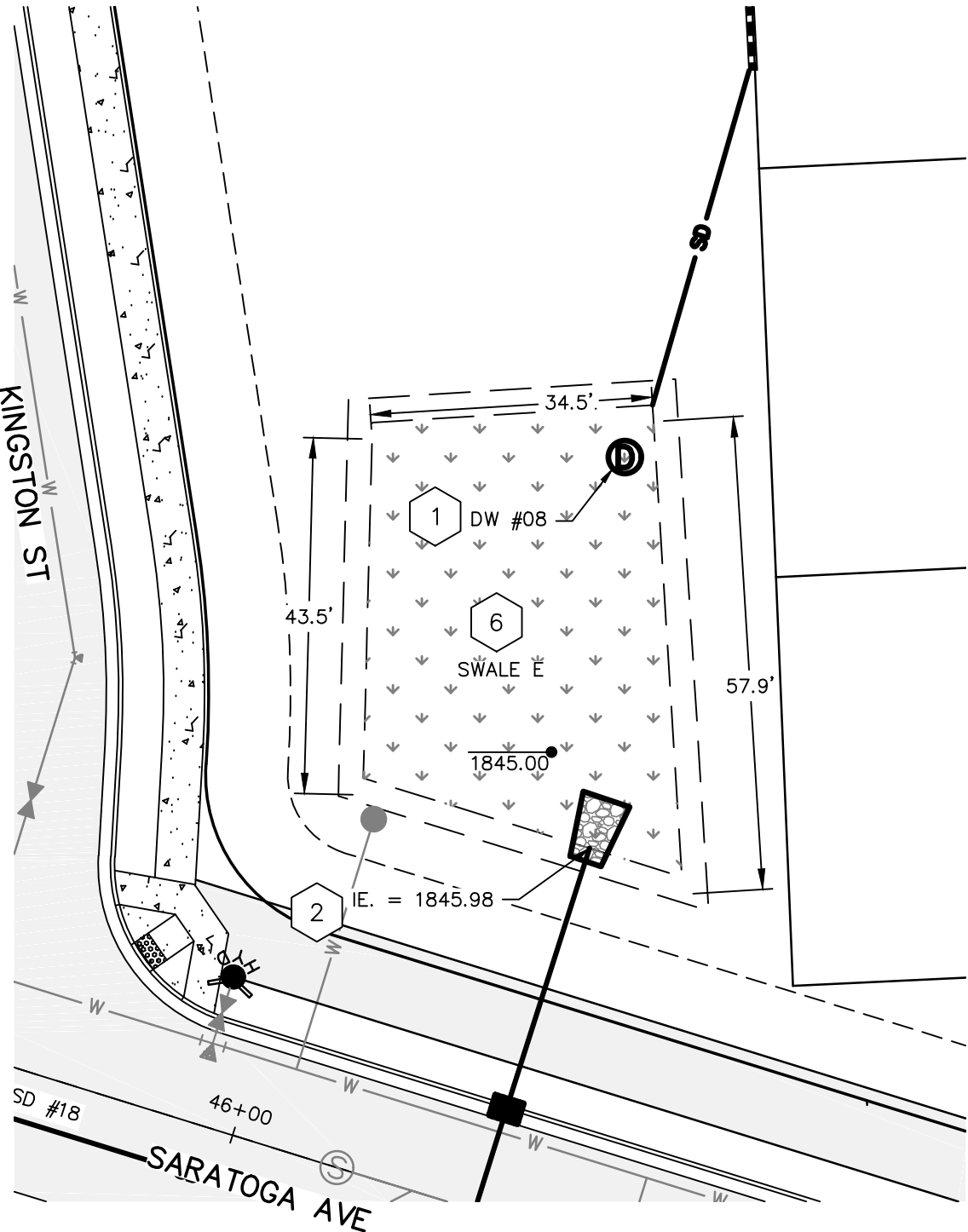
SWALE "F" DETAIL
SCALE 1"=20'
SWALE "F" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1831.50
DRYWELL RIM ELEVATION: 1832.50
BOTTOM AREA: 3437 SF
SEE TYPICAL SWALE SECTION B, SHEET 18

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
DW #01	RIM.= 1942.00	STA. 20+33.10; 44.85' RT LATHAM ST
DW #02	RIM.= 1839.00	STA. 25+45.06; 172.92' LT KINGSTON ST
DW #03	RIM.= 1839.00	STA. 25+32.00; 165.10' LT KINGSTON ST
DW #04	RIM.= 1861.50	STA. 40+88.61; 46.08' LT SARATOGA AVE
DW #08	RIM.= 1846.00	STA. 46+21.27; 93.36' LT SARATOGA AVE
DW #10	RIM.= 1832.50	STA. 18+82.30; 83.47' LT HARTFORD ST
DW #11	RIM.= 1832.50	STA. 18+82.86; 46.00' LT HARTFORD ST
DW #14	RIM.= 1832.50	STA. 19+61.66; 61.27' LT HARTFORD ST
DW #35	RIM.= 1942.00	STA. 19+99.02; 45.86' RT LATHAM ST
DW #36	RIM.= 1942.00	STA. 20+67.90; 44.78' RT LATHAM ST

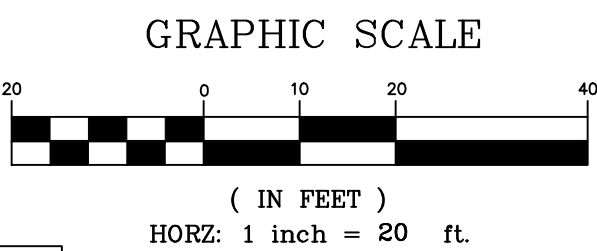
TABLE:	
1	TYPE 1 DRYWELL, PER CITY OF SPOKANE STD. DWG. B-102C. SEE TABLE FOR MORE DETAILS
2	STORM DRAIN LINE OUTFALL PER OUTFALL DETAIL ON SHEET 18.
3	NOT USED.
4	TYPE 2 DRYWELL, PER CITY OF SPOKANE STD. DWG. B-102C. SEE TABLE FOR MORE DETAILS
5	NOT USED.
6	LID SWALE, SEE DETAILS ON SHEET 19.
7	4" PVC WALL DRAIN

SWALE NOTES:

1. DRYWELLS LOCATED IN SWALE BOTTOMS SHALL HAVE GRATED LIDS, DRYWELLS NOT LOCATED IN SWALE BOTTOMS SHALL HAVE SOLID LIDS.
2. SEE L.I.D. SWALE WITH WALL DETAIL AND STANDARD SWALE DETAIL ON SHEET 19 FOR ADDITIONAL INFORMATION.
3. RETAINING WALLS IN L.I.D. SWALES MUST BE DESIGNED BY A PROFESSIONAL ENGINEER AND NOT BY CONTRACTOR



SWALE "E" DETAIL
SCALE 1"=20'
SWALE "E" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1845.00
DRYWELL RIM ELEVATION: 1845.98
BOTTOM AREA: 443 SF
SEE TYPICAL SWALE SECTION B, SHEET 18



PRELIMINARY
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

SWALE PLAN

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO.

PLAN NO.

2023519/2023520

36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV.: 1843.87	
				CBM NO. :	
				NAVD88 DATUM	
5/14/25	LC	19-342	GENERAL REVISION	3	
10/10/24	LC	19-342	GENERAL REVISION	2	
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	
DATE	BY	PROJECT	DESCRIPTION		

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

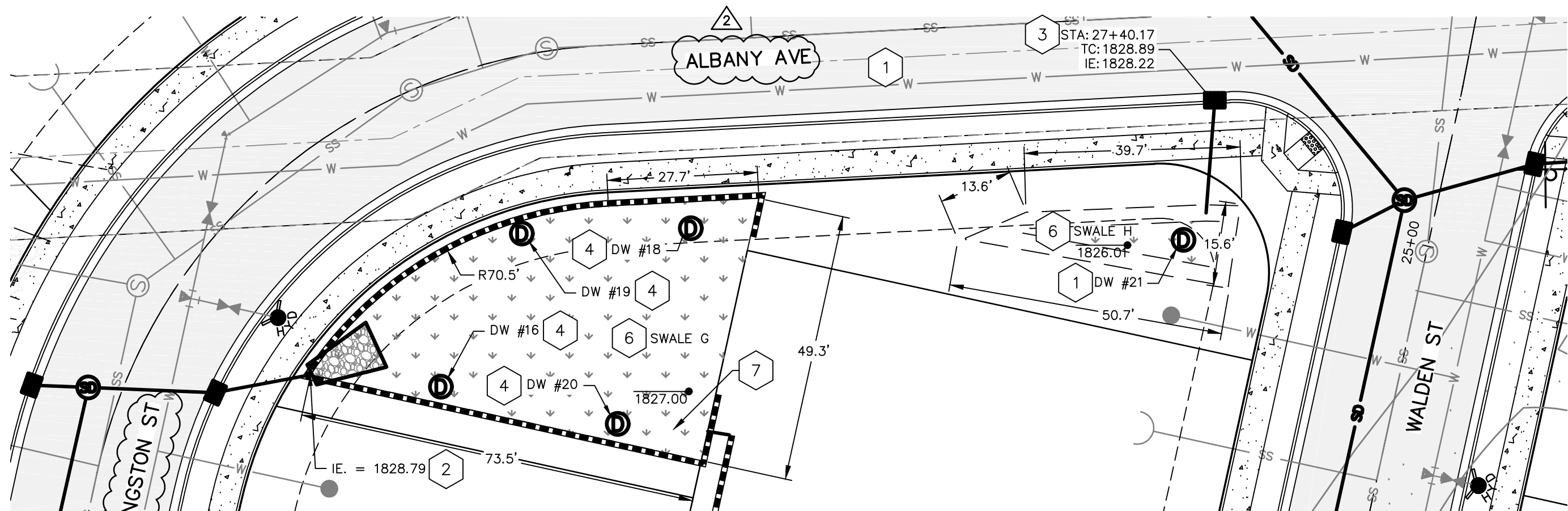
SCALE	HORIZONTAL SCALE (22 x 34)	1"=20'
SCALE	VERTICAL SCALE (22 x 34)	1"=10'

BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

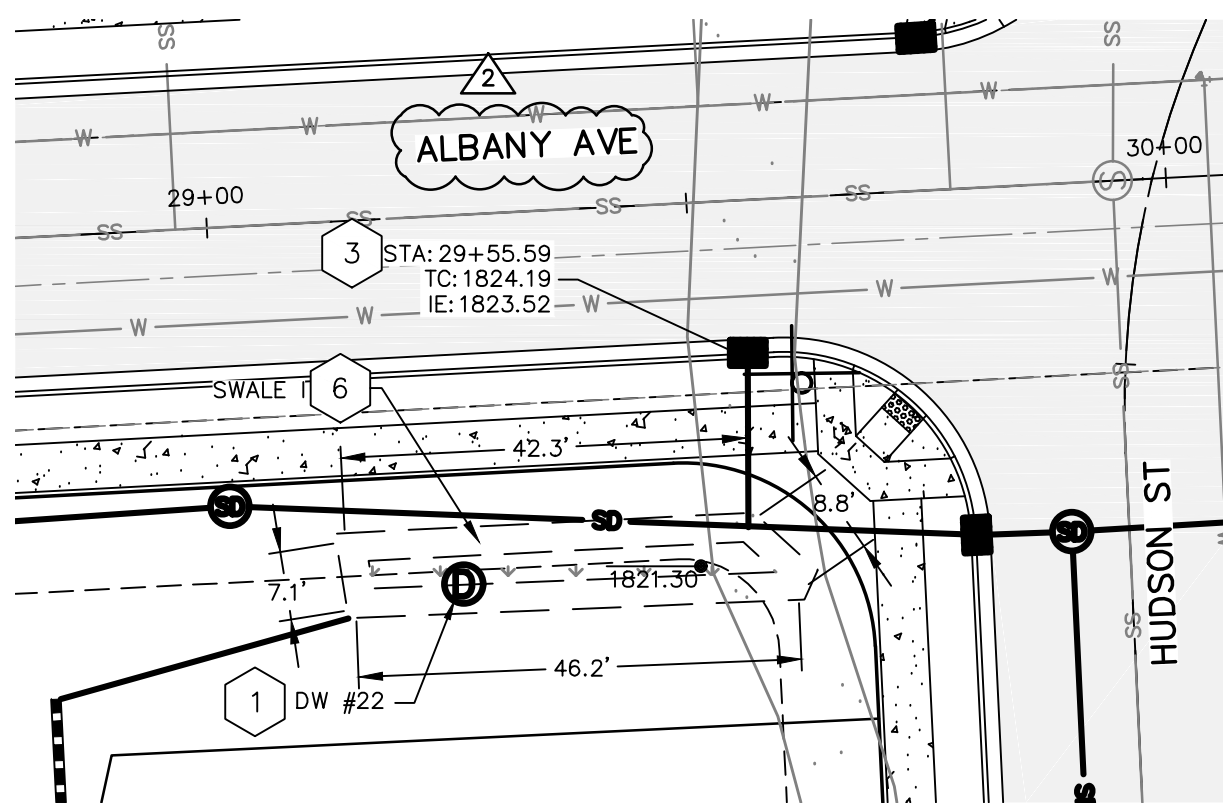
17
22



SWALE "G" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1827.60
DRYWELL RIM ELEVATION: 1828.60
BOTTOM AREA: 1900 SF
SEE TYPICAL SWALE SECTION C, THIS SHEET

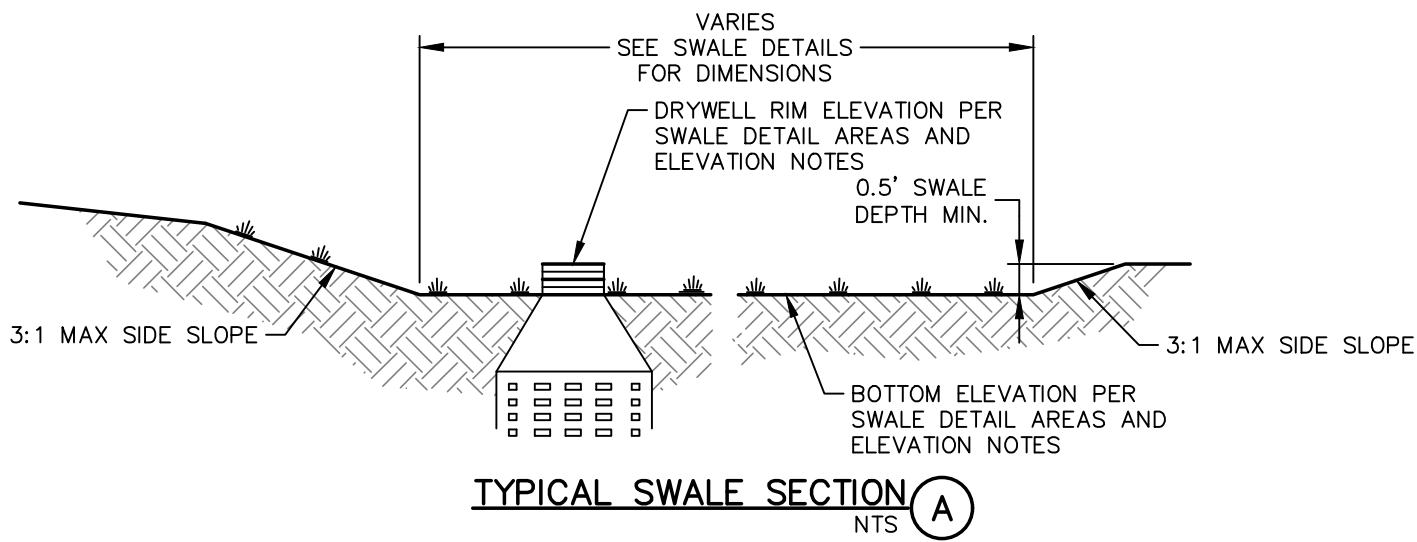
SWALE "G" & "H" DETAIL
SCALE 1"=20'

SWALE "H" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1827.10
DRYWELL RIM ELEVATION: 1828.10
BOTTOM AREA: 134 SF
SEE TYPICAL SWALE SECTION A, THIS SHEET

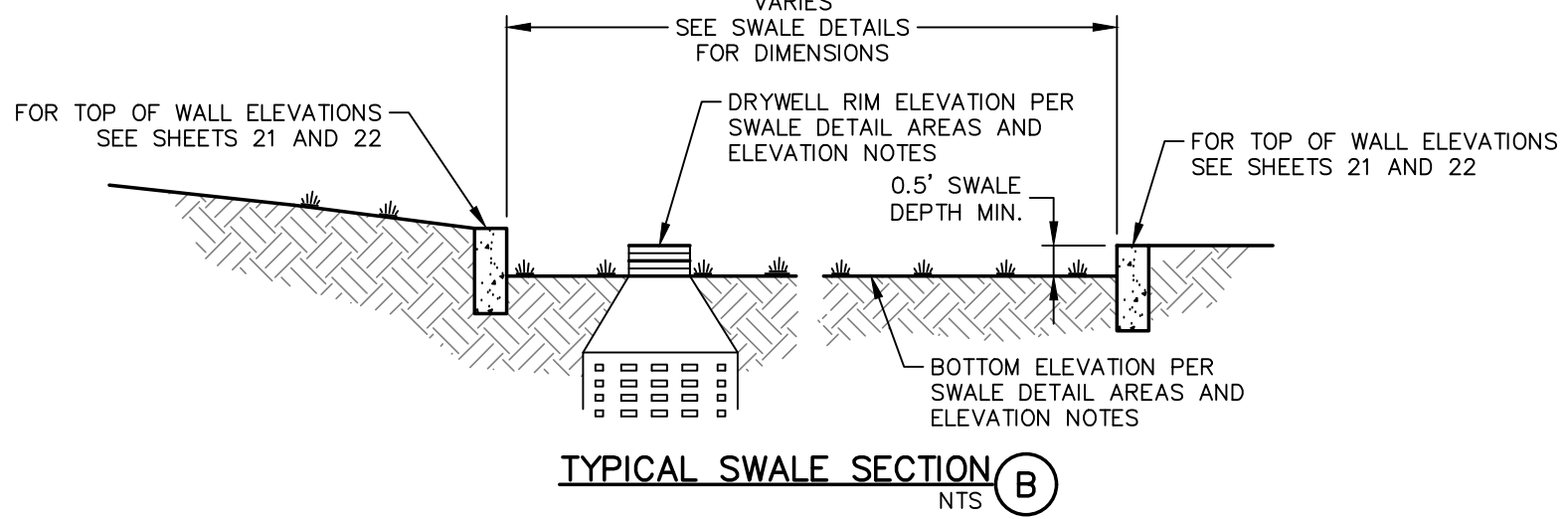


SWALE "I" DETAIL
SCALE 1"=20'

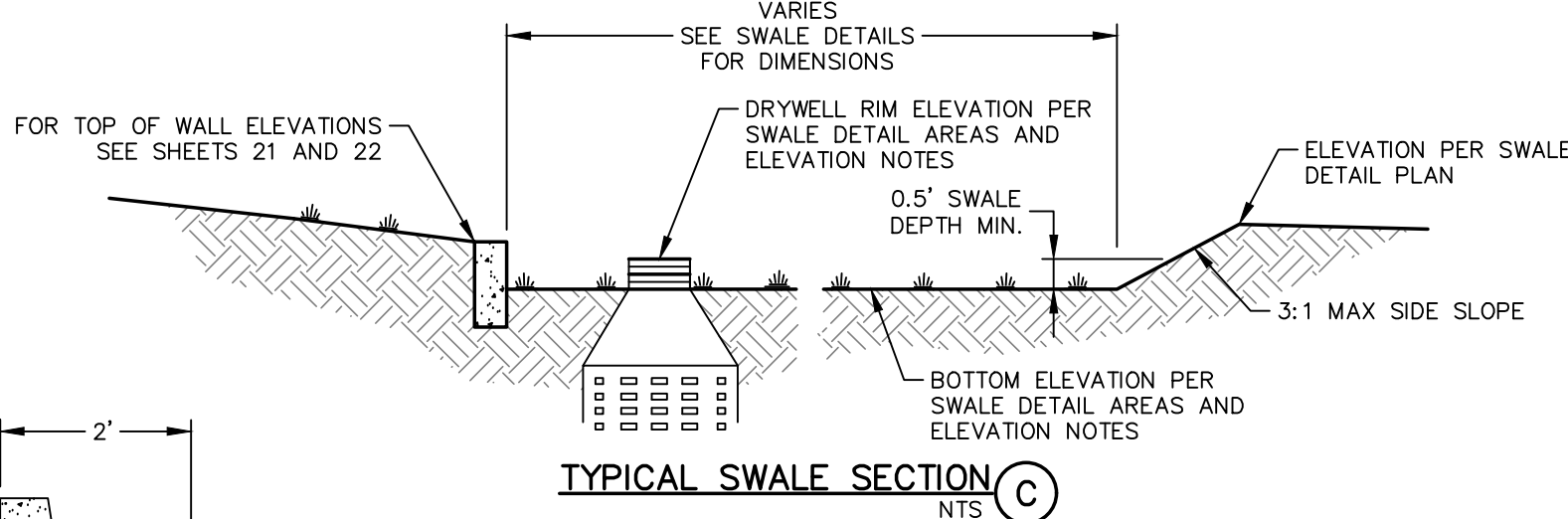
SWALE "I" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1822.40
DRYWELL RIM ELEVATION: 1823.40
BOTTOM AREA: 152 SF
SEE TYPICAL SWALE SECTION A, THIS SHEET



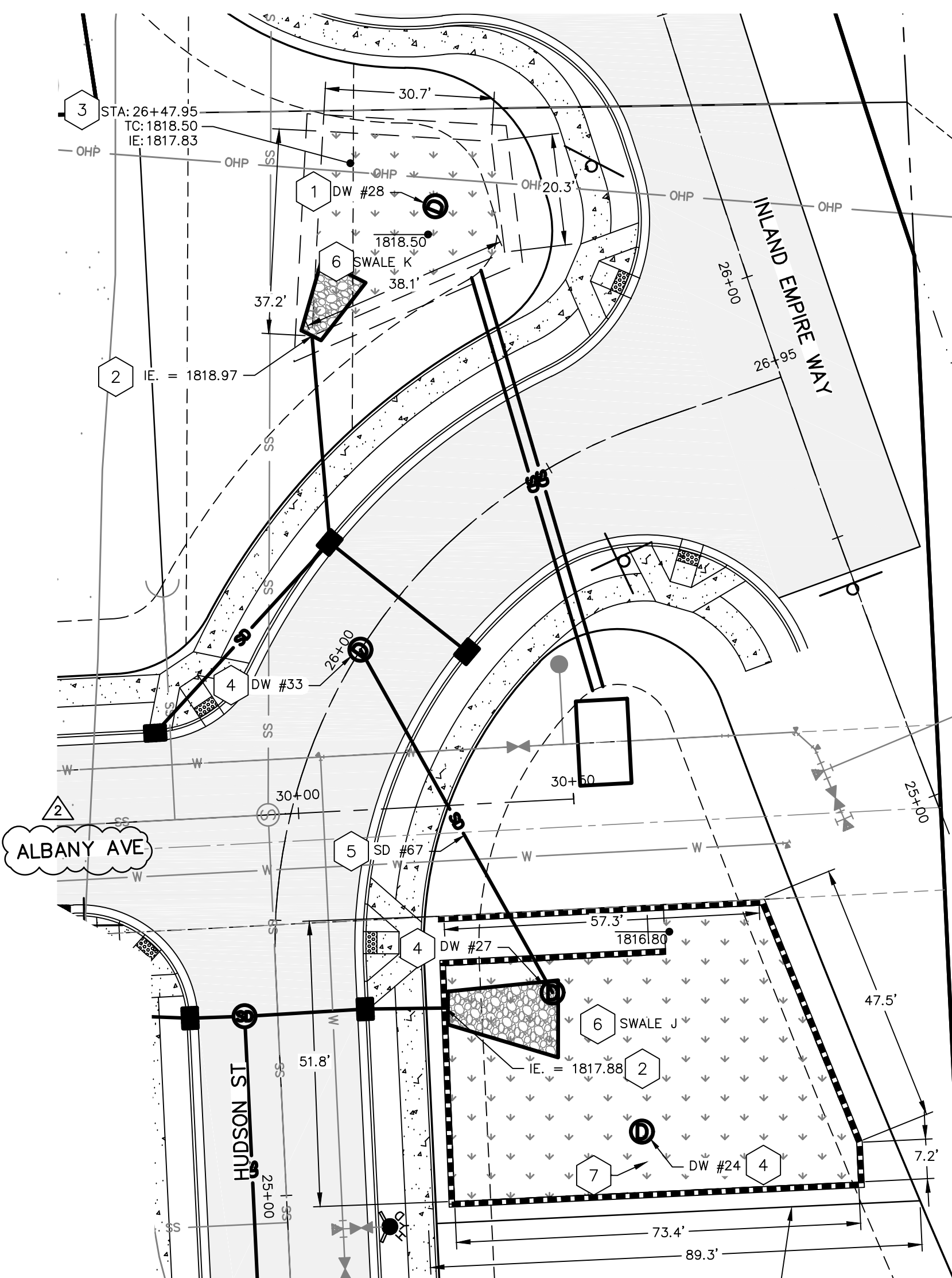
TYPICAL SWALE SECTION A
NTS



TYPICAL SWALE SECTION B
NTS



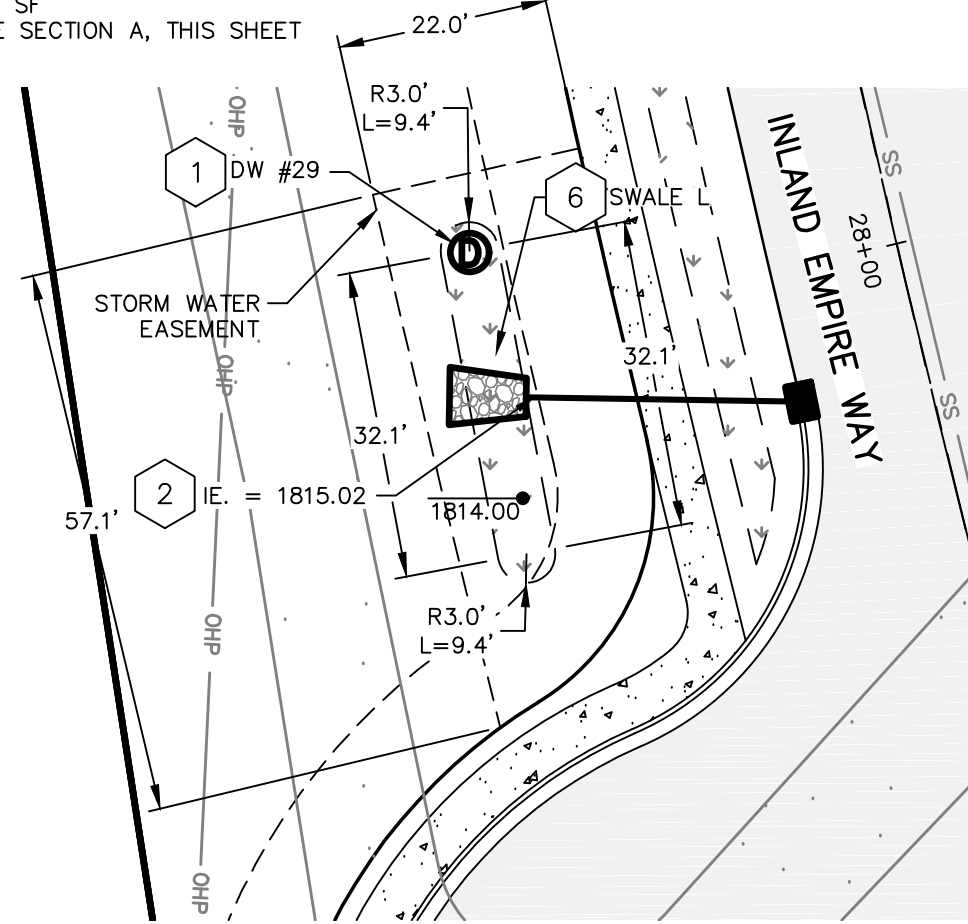
TYPICAL SWALE SECTION C
NTS



SWALE "J" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1816.80
DRYWELL RIM ELEVATION: 1817.80
BOTTOM AREA: 3450 SF
SEE TYPICAL SWALE SECTION B, THIS SHEET

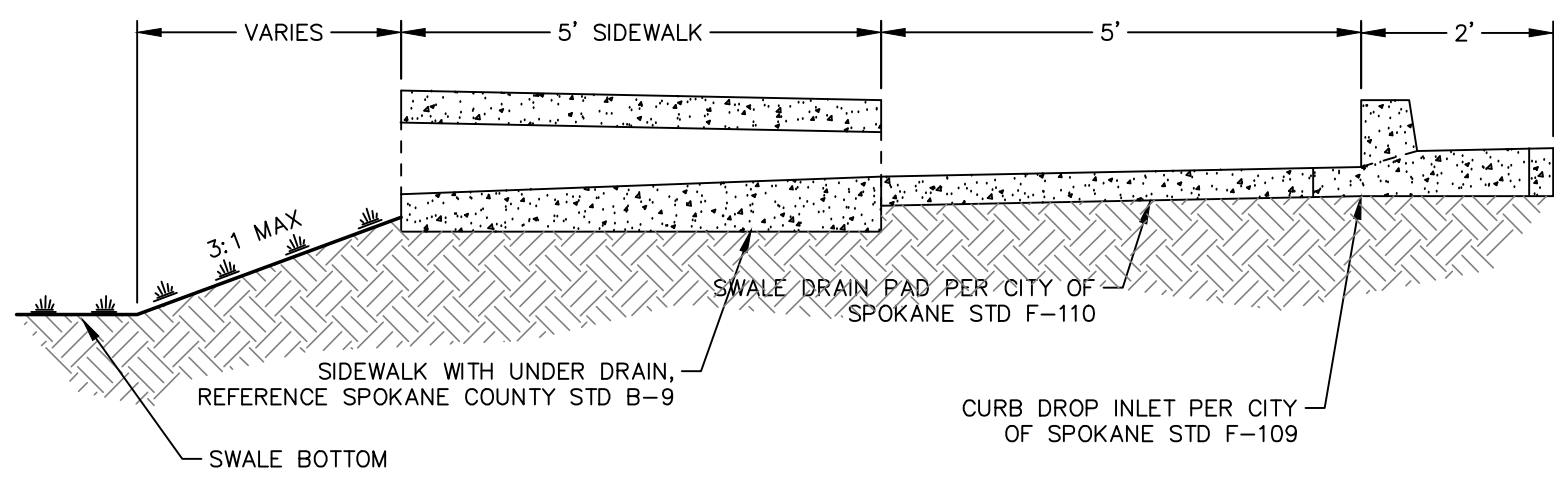
SWALE "K" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1818.50
DRYWELL RIM ELEVATION: 1819.50
BOTTOM AREA: 263 SF
SEE TYPICAL SWALE SECTION A, THIS SHEET

SWALE "J" & "K" DETAIL
SCALE 1"=20'



SWALE "L" DETAIL
SCALE 1"=20'

SWALE "L" AREAS AND ELEVATION:
BOTTOM ELEVATION: 1814.00
DRYWELL RIM ELEVATION: 1815.00
BOTTOM AREA: 221 SF
SEE TYPICAL SWALE SECTION A, THIS SHEET



CURB INLET WITH SIDEWALK UNDERDRAIN
NTS

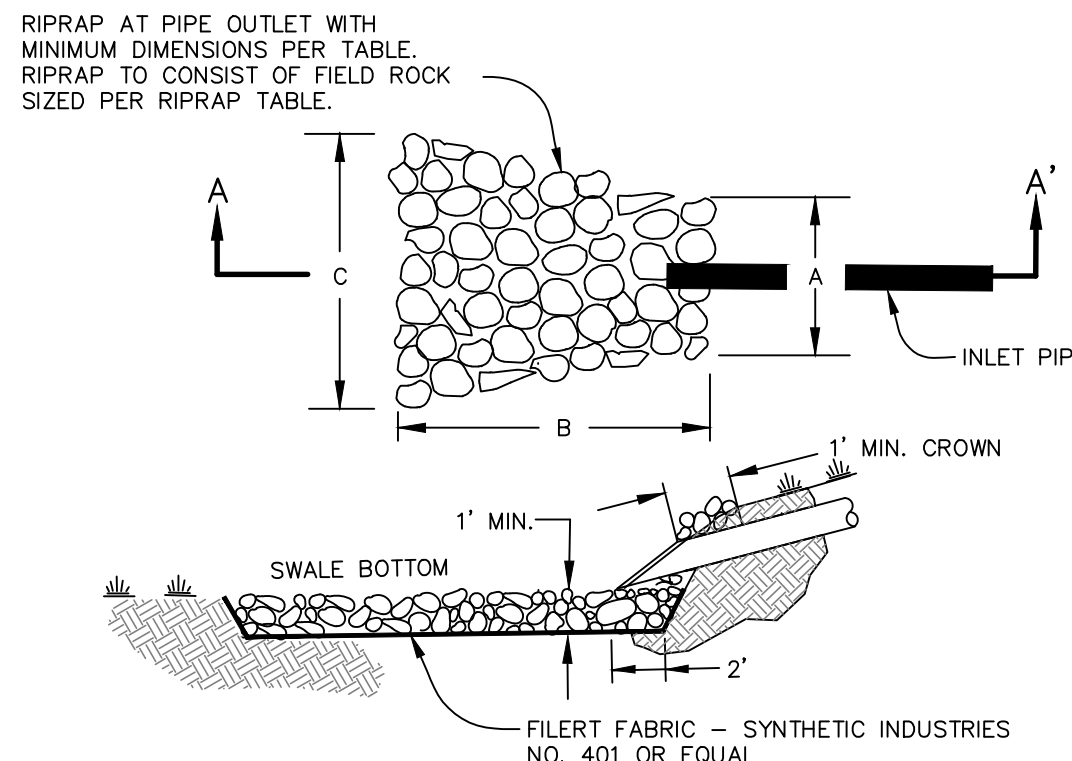
- TABLE:
- TYPE 1 DRYWELL, PER CITY OF SPOKANE STD. DWG. B-102C. SEE TABLE FOR MORE DETAILS
 - STORM DRAIN LINE OUTFALL PER OUTFALL DETAIL THIS SHEET.
 - CURB DROP INLET WITH SIDEWALK UNDER DRAIN. SEE DETAIL THIS SHEET.
 - TYPE 2 DRYWELL, PER CITY OF SPOKANE STD. B-102C. SEE TABLE FOR MORE DETAILS
 - STORM DRAIN PIPE. SEE STORM PIPE TABLE
 - LID SWALE. SEE DETAILS ON SHEET 19.
 - 4" PVC WALL DRAIN.

STORM PIPE TABLE	
NAME	DETAILS
SD #67	8" PVC L = 71.3 S = 0.0000 FT/FT

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
DW #16	RIM. = 1828.00	STA. 25+58.38; 49.27' RT ALBANY AVE
DW #18	RIM. = 1828.00	STA. 26+42.75; 34.36' RT ALBANY AVE
DW #19	RIM. = 1828.00	STA. 26+03.93; 31.79' RT ALBANY AVE
DW #20	RIM. = 1828.00	STA. 26+26.68; 69.53' RT ALBANY AVE
DW #21	RIM. = 1827.01	STA. 27+33.09; 41.21' RT ALBANY AVE
DW #22	RIM. = 1822.30	STA. 29+24.79; 38.41' RT ALBANY AVE
DW #24	RIM. = 1817.80	STA. 25+08.47; 65.04' RT HUDSON ST
DW #27	RIM. = 1817.80 IE. = 1813.09 (NW)	STA. 25+34.45; 50.04' RT HUDSON ST
DW #28	RIM. = 1819.50	STA. 26+53.96; 51.56' LT HUDSON ST
DW #29	RIM. = 1815.00	STA. 28+09.00; 43.47' LT INLAND EMPIRE WAY

STORM STRUCTURE TABLE		
STRUCTURE	ELEVATIONS	DETAILS
DW #33	RIM. = 1822.82 IE. = 1813.09 (SE)	STA. 26+02.01; 0.00' HUDSON ST

OUTFALL TABLE						
LOCATION		RIPRAP SIZE		PAD DIMENSIONS		
DESCRIPTION	PIPE SIZE	D ₅₀	DEPTH	A	B	C
SWALE A	10"	6"	12"	8'	6'	4'
SWALE B	10"	6"	12"	9'	6'	4'
SWALE C	21"	6"	12"	15'	12'	6'
SWALE E	10"	6"	12"	8'	6'	4'
SWALE F (EAST)	15"	6"	12"	12'	9'	4'
SWALE F (NORTH)	10"	6"	12"	8'	6'	4'
SWALE F (WEST)	12"	6"	12"	10'	7'	4'
SWALE G	15"	6"	12"	13'	9'	4'
SWALE J	24"	6"	12"	20'	14'	6'
SWALE K	10"	6"	12"	8'	6'	4'
SWALE L	10"	6"	12"	8'	6'	4'



SECTION A-A'

OUTFALL DETAIL
NTS

SWALE NOTES:

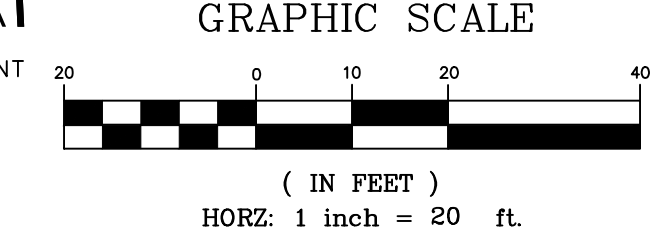
- DRYWELLS LOCATED IN SWALE BOTTOMS SHALL HAVE GRATED LIDS, DRYWELLS NOT LOCATED IN SWALE BOTTOMS SHALL HAVE SOLID LIDS.
- SEE L.I.D. SWALE WITH WALL DETAIL AND STANDARD SWALE DETAIL ON SHEET 19 FOR ADDITIONAL INFORMATION.
- RETAINING WALLS IN L.I.D. SWALES MUST BE DESIGNED BY A PROFESSIONAL ENGINEER AND NOT BY CONTRACTOR



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700



BY: LMC
DATES: 3/3/2023
DRAWN: LMC
APPROVED: JDS
01/19/2024



REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV. :1843.87	
				CBM NO. :	
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5/14/25	LC	19-342	GENERAL REVISION	3	
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4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	
DATE	BY	PROJECT	DESCRIPTION		

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE	HORIZONTAL SCALE (22 x 34)	1"=20'
	VERTICAL SCALE (22 x 34)	1"=10'

PRELIMINARY
NOT FOR
CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DATE: 6/11/24
PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

SWALE DETAILS

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE	
PROJECT NO.	PLAN NO.
2023519/2023520	36-25N-42E

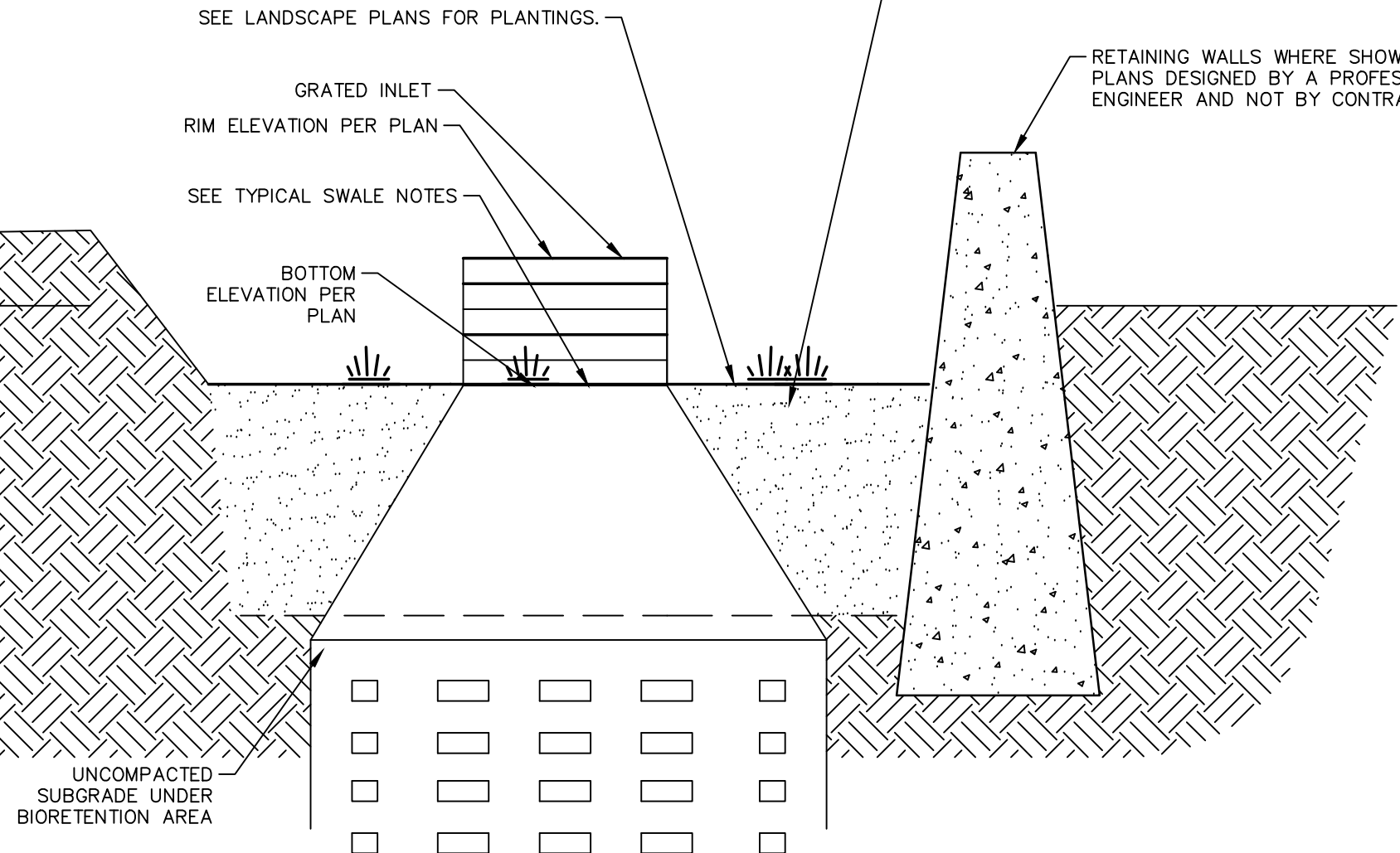
CALL BEFORE YOU DIG 1-800-424-5555

SEC. 36, T. 25 N., R. 42 E., WM

- CONSTRUCTION SHALL CONFORM TO CITY OF SPOKANE STANDARDS FOR SEWER, WATER AND STORMWATER MANAGEMENT IMPROVEMENTS, UNLESS IT IS SPECIFICALLY EXCEPTED IN THE PLANS OR CONTRACT DOCUMENTS. ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2004 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND AS AMENDED BY THE CITY OF SPOKANE SUPPLEMENTAL SPECIFICATIONS.
- CONTRACTOR SHALL REFER TO CITY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- A PLUG SHALL BE INSTALLED AT THE END OF ALL SERVICE LINES UNTIL SUCH TIME THAT SERVICE IS EXTENDED TO BUILDING FOR CONNECTION.
- WATER LINES AND APPURTENANCES SHALL MEET THE CITY OF SPOKANE WATER DEPARTMENT AND FIRE DEPARTMENT REQUIREMENTS UNLESS NOTED OTHERWISE. WATER LINES SHALL BE INSTALLED WITH MINIMUM COVER OF 60 INCHES FROM TOP OF PIPE.
- MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL CLEARANCE BETWEEN WATER PIPE AND PIPE CARRYING NON-POTABLE WATER. AT CROSSINGS, THERE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER PIPE (ABOVE) AND PIPE CARRYING NON-POTABLE WATER (BELOW). INSTALLATIONS FOR UTILITIES OTHER THAN POTABLE WATER MAY BE INSTALLED AT A CLEARANCE LESS THAN THOSE STATED ABOVE IF THE NON-POTABLE LINE IS SLEEVED PER CITY OF SPOKANE SPECIFICATIONS. THE SLEEVE PIPE SHALL BE ONE SIZE LARGER THAN THE CONSTRUCTION PIPE. THE SLEEVE SHALL BE AT LEAST 20 FEET IN LENGTH AND CENTERED ON THE CROSSING TO PROVIDE FOR A MINIMUM HORIZONTAL SEPARATION OF 10 FEET EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE CROSSED LINE. EACH END OF THE SLEEVE SHALL BE SEALED WITH A FERROCO RUBBER COUPLER.
- NO UTILITIES ARE TO BE INSTALLED WITHIN 5' PARALLEL TO WATER MAINS AND SERVICE LINES.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES. CONTRACTOR TO PERFORM NECESSARY FIELD VERIFICATION, INCLUDING SUBSURFACE EXPLORATION, FOR ALL EXISTING CONDITIONS TO BE INCLUDED IN CONTRACTOR BID (AT NO ADDITIONAL COST TO THE OWNER). ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.
- UTILITY TRENCHING SHALL BE DONE IN ACCORDANCE WITH CITY OF SPOKANE STANDARD PLANS A-1 AND A-2.
- THE CONTRACTOR SHALL HAVE A COMPLETE SET OF APPROVED PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE SUBJECT SITE PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE ENGINEER. CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
- IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY AND SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING STORM WATER MANAGEMENT SYSTEM FROM SEDIMENTATION. THE CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT EXISTING IMPROVEMENTS BY USING EROSION AND SEDIMENT CONTROLS, INCLUDING BUT NOT LIMITED TO, STABILIZED CONSTRUCTION ENTRANCES, SEDIMENT BARRIERS, SILT FENCES, AND INLET PROTECTION.
- UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO CURB, GUTTER, OR OTHER RUNOFF COLLECTION DEVICES. MAINTAIN POSITIVE DRAINAGE AWAY FROM THE BUILDING.
- THE CITY OF SPOKANE SHALL INSPECT AND CERTIFY CONSTRUCTION OF ALL SEWER LINES, SEWER SERVICES, AND BUILDING CONNECTIONS.
- GEOTEXTILE FABRIC SHALL BE PLACED ON THE RIMS OF DRYWELLS, CATCH BASINS, INLETS, AND AREA DRAINS UNTIL SUCH TIME THE VEGETATION ON SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO SPOKANE COUNTY ESC BEST MANAGEMENT PRACTICES (BMPs) AS NOTED IN THE SPOKANE REGIONAL STORM WATER MANUAL (SRSM).
- THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES FOR ALL REQUIREMENTS AND TO CONFIRM THAT AN ADEQUATE DEPTH OF COVER IS MAINTAINED OVER THE UTILITIES.
- AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE CONSTRUCTED OR REPAIRED TO ORIGINAL CONDITIONS OR BETTER.
- EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR.
- APPROVALS AND PERMITS REQUIRED BY THE GOVERNING REGULATORY AGENCIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION, INCLUDING A CONSTRUCTION GENERAL STORM WATER PERMIT IF REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING REGULATORY AGENCIES TO DETERMINE IF A PRE-CONSTRUCTION MEETING IS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. COORDINATE REQUIREMENTS WITH THE GOVERNING REGULATORY AGENCY.
- SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY OSHA.
- THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING REGULATORY AGENCY REGARDING INSPECTION AND TESTING REQUIREMENTS. INSPECTION, TESTING, COMPACTION, AND DISINFECTION REQUIREMENTS SHALL CONFORM WITH WSDOT, AWWA, AND APWA SPECIFICATIONS.
- COORDINATE THE INSTALLATION OF STREET NAME AND REGULATORY SIGNS WITH THE GOVERNING REGULATORY AGENCY.
- UTILITY PIPES AND CONDUITS SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE ABOVE THE PIPE AND BELOW THE FINISHED SURFACE GRADE AT DEPTHS THAT COMPLY WITH WSDOT AND THE STANDARDS OF THE GOVERNING REGULATORY AGENCY.
- WHERE NEW ASPHALT JOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO A NEAT, VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER THE EXISTING ASPHALT TO PROVIDE FOR A SEAL AT THE SAWCUT LOCATION.
- SANITARY SEWER MAINS AND SERVICES SHALL BE PVC, ASTM D 3034, SDR 35 WITH FLEXIBLE GASKET JOINTS. SEWER SERVICE CONNECTIONS SHALL BE MADE BY A TAP TO AN EXISTING MAIN, OR A TEE BRANCH FROM A NEW MAIN CONNECTED ABOVE THE SPRING LINE OF THE PIPE. SERVICE CONNECTIONS TO MANHOLES ARE PROHIBITED. SEWER SERVICES SHALL BE AT RIGHT ANGLES TO THE SEWER MAIN.
- GROUNDWATER OR UNANTICIPATED GEOLOGIC CONDITIONS SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER FOR ASSESSMENT AND RECOMMENDATIONS.
- ALL COMPACTION EFFORTS SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER. ALL MASS GRADING SHALL BE MONITORED, TESTED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER (GEOTECHNICAL ENGINEER).

GENERAL NOTES

REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	<div>25' 0' 25' 50'</div>		
				CBM NO. :			
5/14/25	LC	19-342	GENERAL REVISION	3	SCALE IN FEET		
10/10/24	LC	19-342	GENERAL REVISION	2			
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	NAVD88 DATUM		
DATE	BY	PROJECT	DESCRIPTION				



NOTES

- SEED OR SOD PER LANDSCAPE PLAN.
- DRYWELL OR INLET SHALL BE RAISED 6" ABOVE THE FLOWLINE OF THE DRAINAGE SWALE UNLESS OTHERWISE SHOWN ON THE PLANS.
- DRYWELL TO BE CONSTRUCTED PER CITY OF SPOKANE STANDARDS.
- SWALE SIDE SLOPES TO BE 3:1 MAX (H:V).
- FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT).
- THE SWALE BOTTOM SHALL BE FLAT..
- UTILIZE 18" BIORETENTION SOIL MEDIA MADE FROM IMPORTED 50% HIGHLY PERMEABLE SANDY MINERAL AGGREGATE MIXED WITH 50% COMPOST, PER CHAPTER 4 OF THE EASTERN WASHINGTON LOW IMPACT DEVELOPMENT GUIDANCE MANUAL, JUNE 2013

L.I.D. SWALE WITH WALL

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "CITY OF SPOKANE DESIGN STANDARDS".
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. COORDINATE WITH CITY OF SPOKANE AND DESIGN ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO BEGINNING CONSTRUCTION AND COORDINATE WITH THE GOVERNING REGULATORY AGENCIES REGARDING CONSTRUCTION AND INSPECTION REQUIREMENTS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.
- FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOILS.
- FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT/FT), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.
- THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL RECOMMENDATIONS AND INVESTIGATION REPORTS ASSOCIATED WITH THE SUBJECT DEVELOPMENT PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES BETWEEN DESIGN PLANS AND GEOTECHNICAL REPORT SHALL BE REPORTED TO THE DESIGN ENGINEER. CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORTS.
- THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING STRUCTURES AND ASSOCIATED IMPROVEMENTS ON THE SUBJECT SITE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH OWNER FOR FURTHER DIRECTION AND EXTENT OF WORK.
- THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA

SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE CITY OF SPOKANE ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

- IRRIGATION SYSTEM FOR STORM WATER MANAGEMENT PONDS SHALL BE PROVIDED BY CONTRACTOR/DEVELOPER. IRRIGATION SYSTEM SHALL BE DESIGN/BUILD.
- CPEP STORM DRAIN PIPES, WHEN IDENTIFIED ON THE PLANS, SHALL BE POLYETHYLENE (CPEP) SMOOTH WALL PIPE PER ADVANCED DRAINAGE SYSTEM (ADS) N12, CONSTRUCTED PER W.S.D.O./A.P.W.A. STANDARD SPECIFICATION. ALL CPEP PIPE SHALL SATISFY THE ADDITIONAL REQUIREMENTS OF THE CITY OF SPOKANE "LETTER OF INSTRUCTION" DATED APRIL 1, 2006.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH M.U.T.C.D. AND CITY OF SPOKANE STANDARDS PRIOR TO DISRUPTION OF ANY TRAFFIC. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE AND THE APPROPRIATE AGENCY NOTIFICATION HAS TAKEN PLACE.
- WHERE NEW ASPHALT JOINTS EXIST, THE EXISTING ASPHALT SHALL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER EXISTING TO PROVIDE FOR A SEAL AT THE SAW CUT LOCATION AND THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT.
- COMPACTION OF SUB GRADE, ROCK AND ASPHALT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- COORDINATE WITH THE CITY OF SPOKANE STREET MAINTENANCE DEPARTMENT - SIGNS AND MARKINGS DIVISION REGARDING CONSTRUCTION / INSTALLATION OF STREET NAME AND REGULATORY SIGNS.
- MAINTAIN MINIMUM HORIZONTAL CLEARANCE AS SHOWN ON CITY OF SPOKANE STANDARD PLANS W-111 BETWEEN WATER PIPE AND PIPE CARRYING NON-POTABLE WATER. AT CROSSINGS, THERE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER PIPE (ABOVE) AND PIPE CARRYING NON-POTABLE WATER (BELOW). INSTALLATIONS FOR UTILITIES OTHER THAN POTABLE WATER MAY BE INSTALLED AT A CLEARANCE LESS THAN THOSE STATED ABOVE IF THE NON-POTABLE LINE IS SLEEVED PER CITY OF SPOKANE STANDARD PLAN W-111.
- DRYWELL INSTALLATION SHALL BE PER CITY OF SPOKANE STANDARD PLANS.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO CURB, GUTTER, OR OTHER RUNOFF COLLECTION DEVICES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS.

CONSTRUCTION SPECIFICATIONS

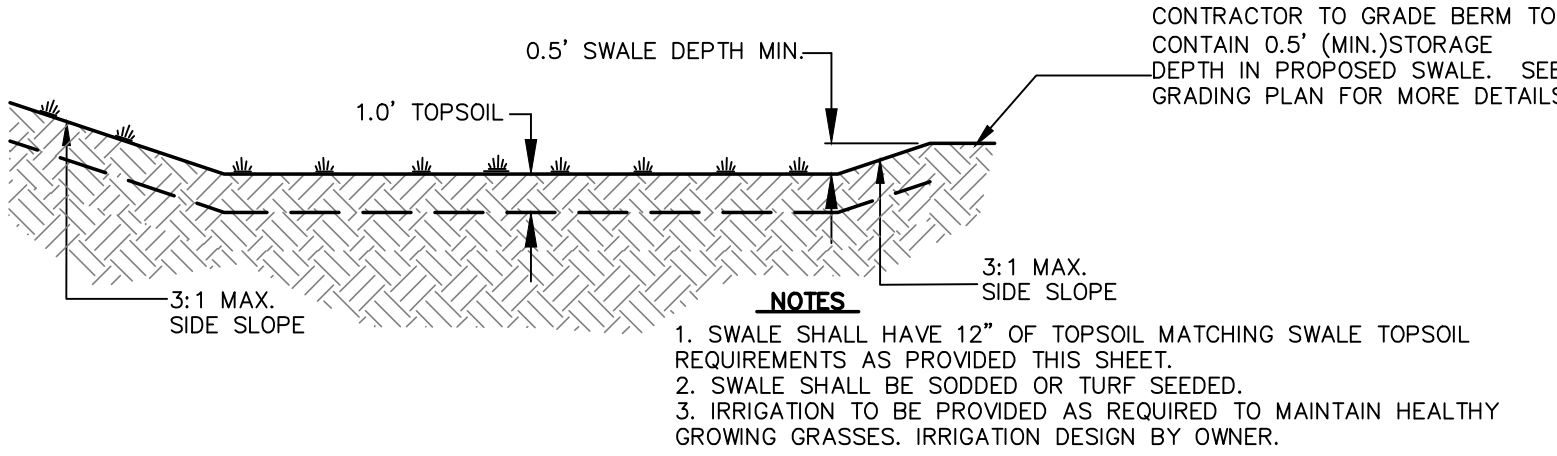


SE #19-342



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024



STANDARD SWALE DETAIL

PROVIDE FRESH, CLEAN NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

20 PERCENT ELKA PERENNIAL RYE
20 PERCENT DURAR HARD FESCUE
45 PERCENT COVAR SHEEP /FESCUE
15 PERCENT REUBENS CANADIAN BLUEGRASS

PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:

GRASS SEED MIXTURE: 90 LBS. PER ACRE
FERTILIZER: 16:16:16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.

CONTRACTOR SHALL IRRIGATE SEEDDED AREAS UNTILL SEED HAS GERMINATED AND HAS BEEN ACCEPTED BY CITY OF SPOKANE.

SEEDING SPECIFICATIONS

UNLESS RECOMMENDED OTHERWISE BY A GEOTECHNICAL ENGINEER, BIO-INFILTRATION SWALES SHALL BE CONSTRUCTED WITH A TREATMENT ZONE OF MEDIUM-TO WELL-DRAINING SOIL (TESTED FOR INFILTRATIVE AND TREATMENT CRITERIA) AT LEAST 12 INCHES THICK, UNDERLAIN BY A SUBGRADE INFILTRATIVE LAYER AT LEAST 48 INCHES THICK. ALL SOILS, INCLUDING AMMENDED NATIVE SOILS, SHALL MEET THE INFILTRATIVE CRITERIA INDICATED IN TABLE 6-1.

CRITERIA	DESIGN REQUIREMENT
TREATMENT ZONE INFILTRATION RATE (VEGETATED COVER AND TREATMENT LAYER) ¹	BETWEEN 0.25 AND .050 INCHES/HOUR
SUBGRADE INFILTRATION RATE ²³	AT LEAST 0.15 INCHES/HOUR AND FACILITY MUST COMPLETELY DRAIN WITHIN 72 HOURS
AVERAGE CATION EXCHANGE CAPACITY	AT LEAST 15 MILLIEQUIVALENTS/100GRAMS
ORGANIC MATTER CONTENT	AT LEAST 2% BY WEIGHT

¹ SAND AND COARSER SOILS ARE NOT SUITABLE TO BE USED AS TOP SOILS WHEN TREATMENT IS REQUIRED.

² AN INFILTRATION TEST (FOR EXAMPLE, A SINGLE-RING INFILTROMETER TEST) DEMONSTRATING THE FACILITY'S CONFORMANCE TO THE INFILTRATION RATE CRITERIA MAY BE REQUIRED PRIOR TO CONSTRUCTION CERTIFICATION.

³ THE 48-INCH LAYER OF INFILTRATIVE SUBGRADE SOILS MUST MEET THE GEOTECHNICAL RECOMMENDATIONS AS PER THE REQUIREMENTS FOUND IN CHAPTER 4 OF THE SPOKANE REGIONAL STORMWATER MANUAL (SRSM).

NOTE:

- THE SWALE TOPSOIL REQUIREMENTS SHALL MEET THE DESIGN REQUIREMENTS FOR EITHER THE AVERAGE CATION EXCHANGE CAPACITY OR THE ORGANIC MATTER CONTENT.

SWALE TOPSOIL REQUIREMENTS

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FOR REGULATORY REVIEW ONLY

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

NOTES

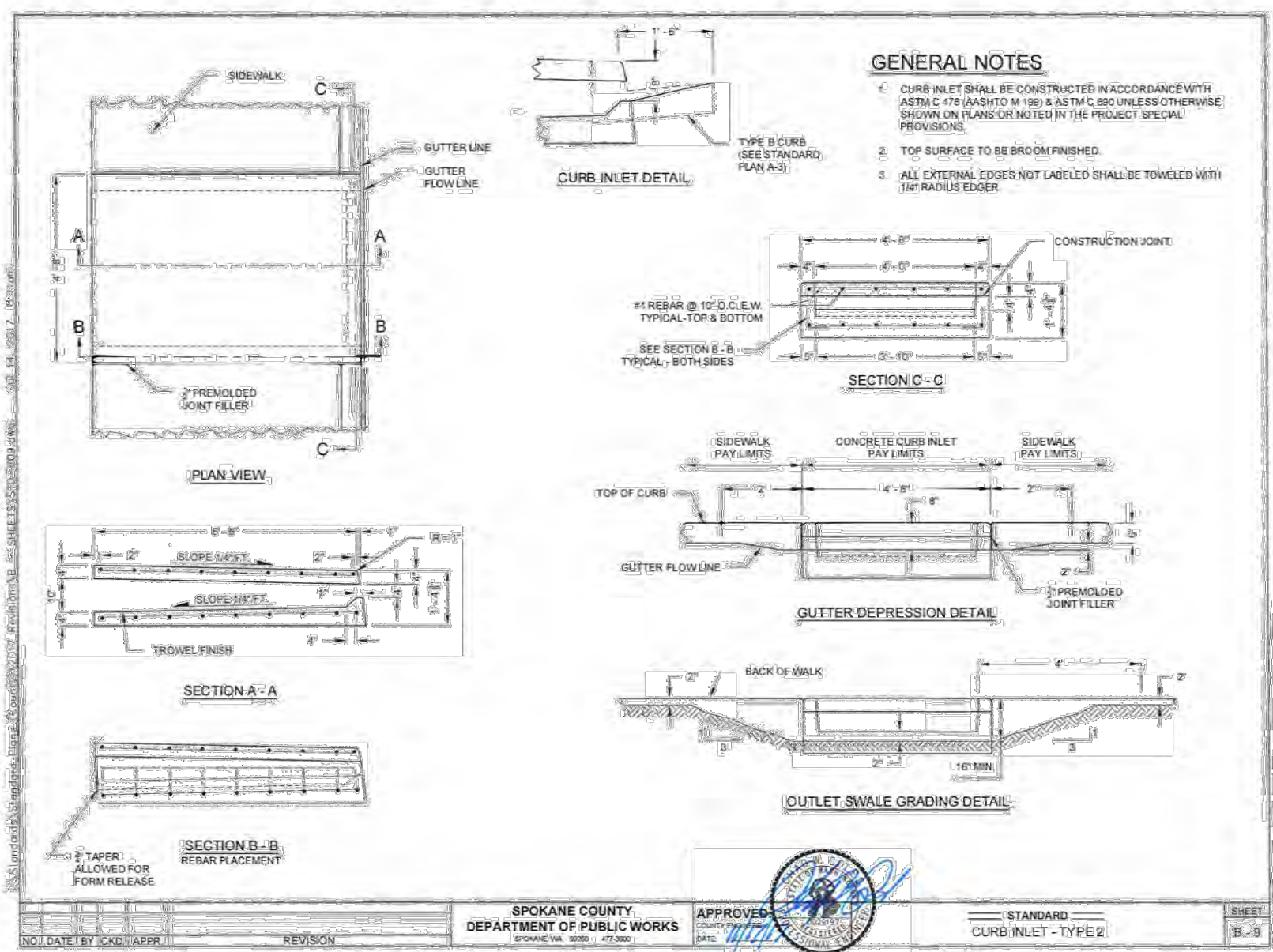
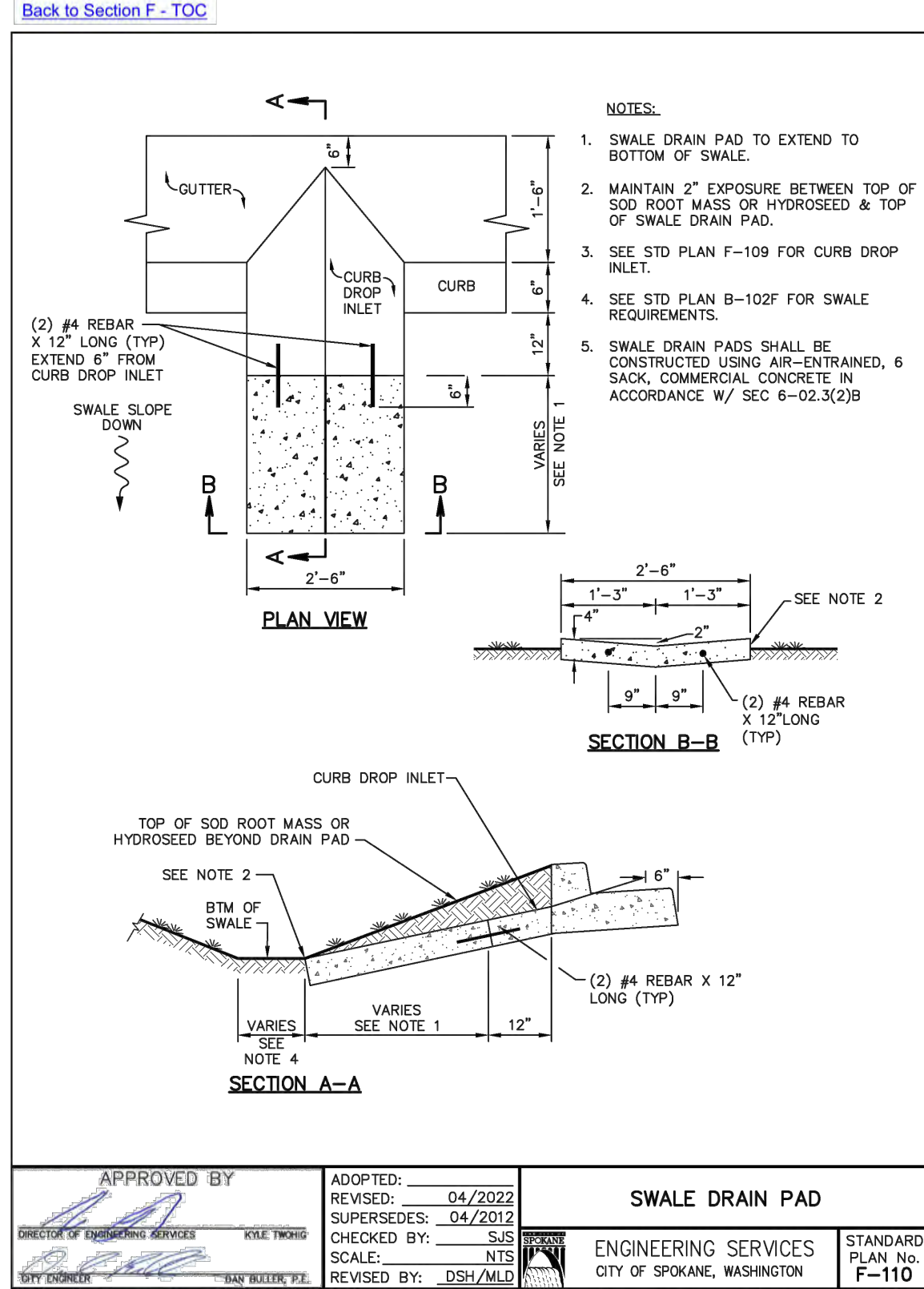
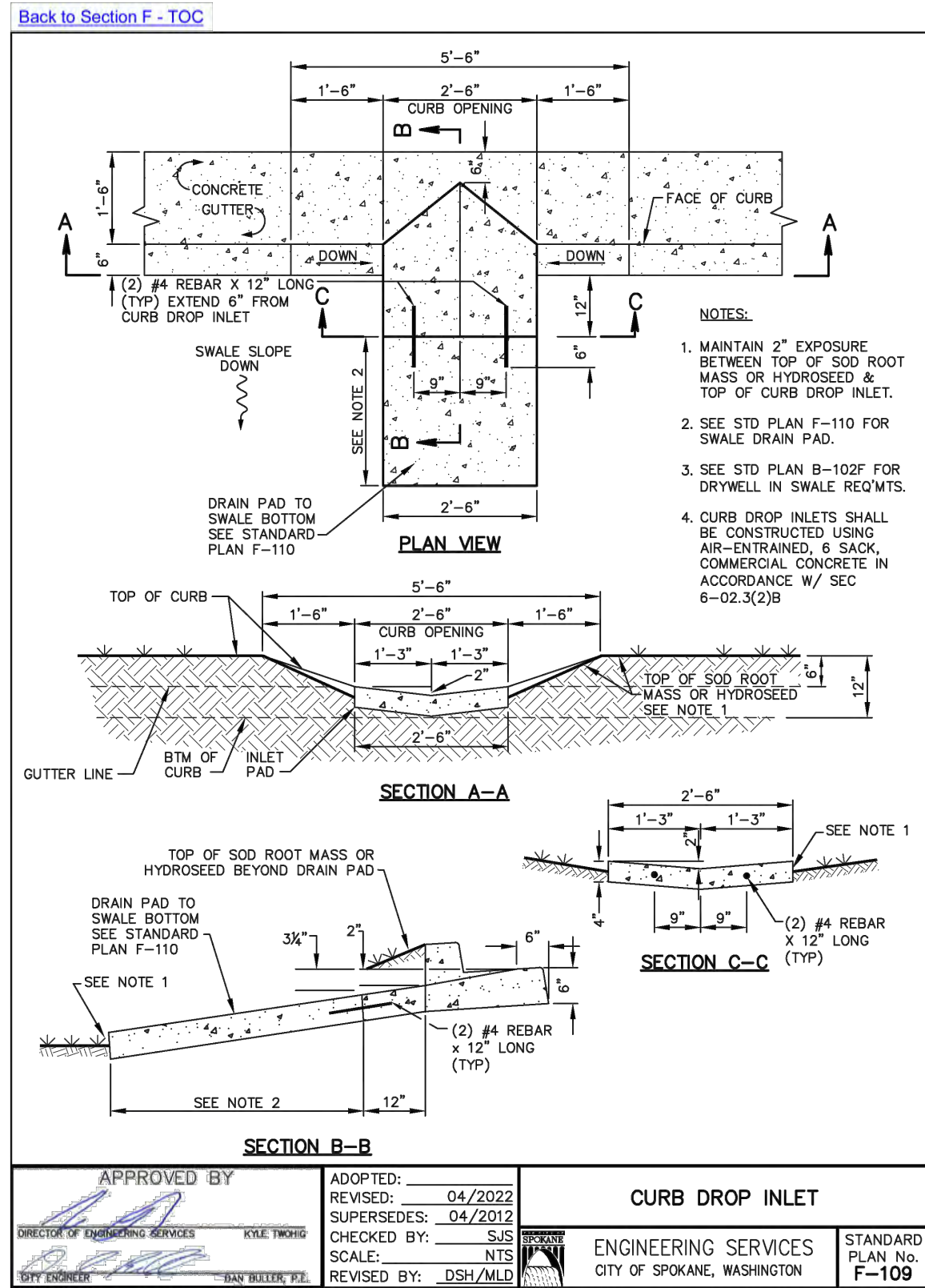
PROJECT LIMITS: LATAH GLEN RESIDENTIAL


TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO. PLAN NO.

2023519/2023520 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



REVISIONS				NAVD88 = ESTABLISHED FROM GPS				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER	
				NAVD88 ELEV. :1843.87					
5/14/25	LC	19-342	GENERAL REVISION	3	CBM NO. :	SCALE IN FEET		SCALE HORIZONTAL SCALE (22 x 34) VERTICAL SCALE (22 x 34)	
10/10/24	LC	19-342	GENERAL REVISION	2					
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	NAVD88 DATUM				
DATE	BY	PROJECT	DESCRIPTION						

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE	HORIZONTAL SCALE (22 x 34)
	VERTICAL SCALE (22 x 34)

	BY	DATES
DRAWN:	LMC	3/3/2023
APPROVED:	JDS	01/19/2024



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

PRELIMINARY
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CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DATE: 6/11/24

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

STANDARD DETAILS

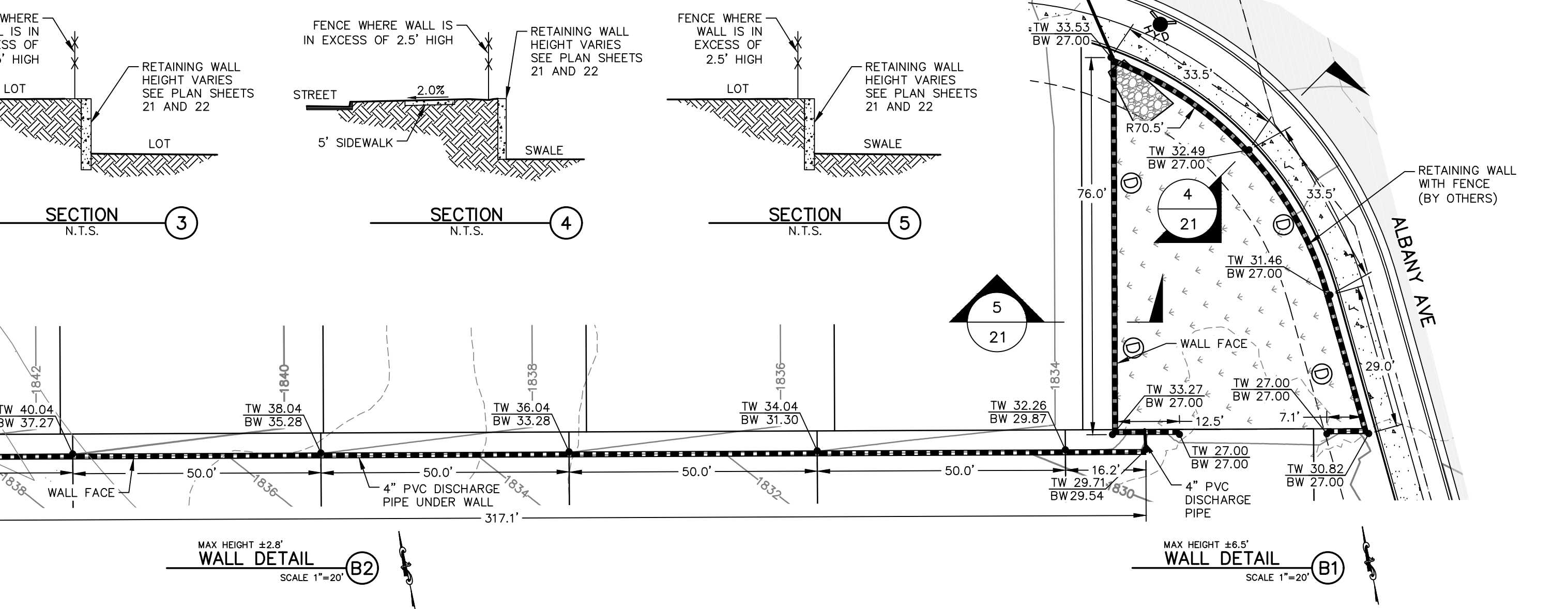
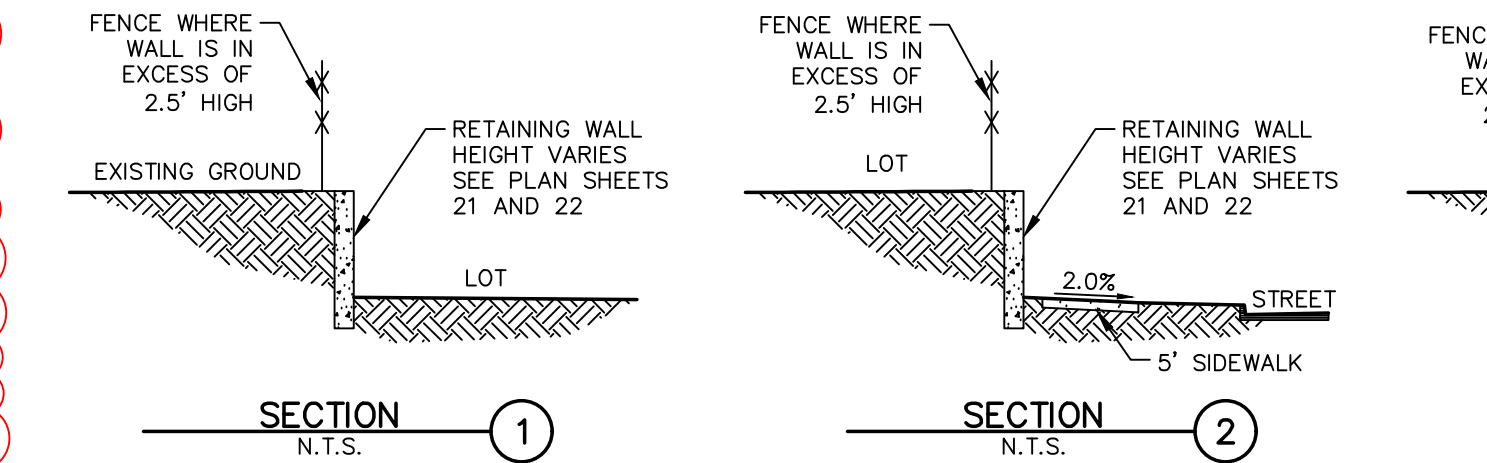
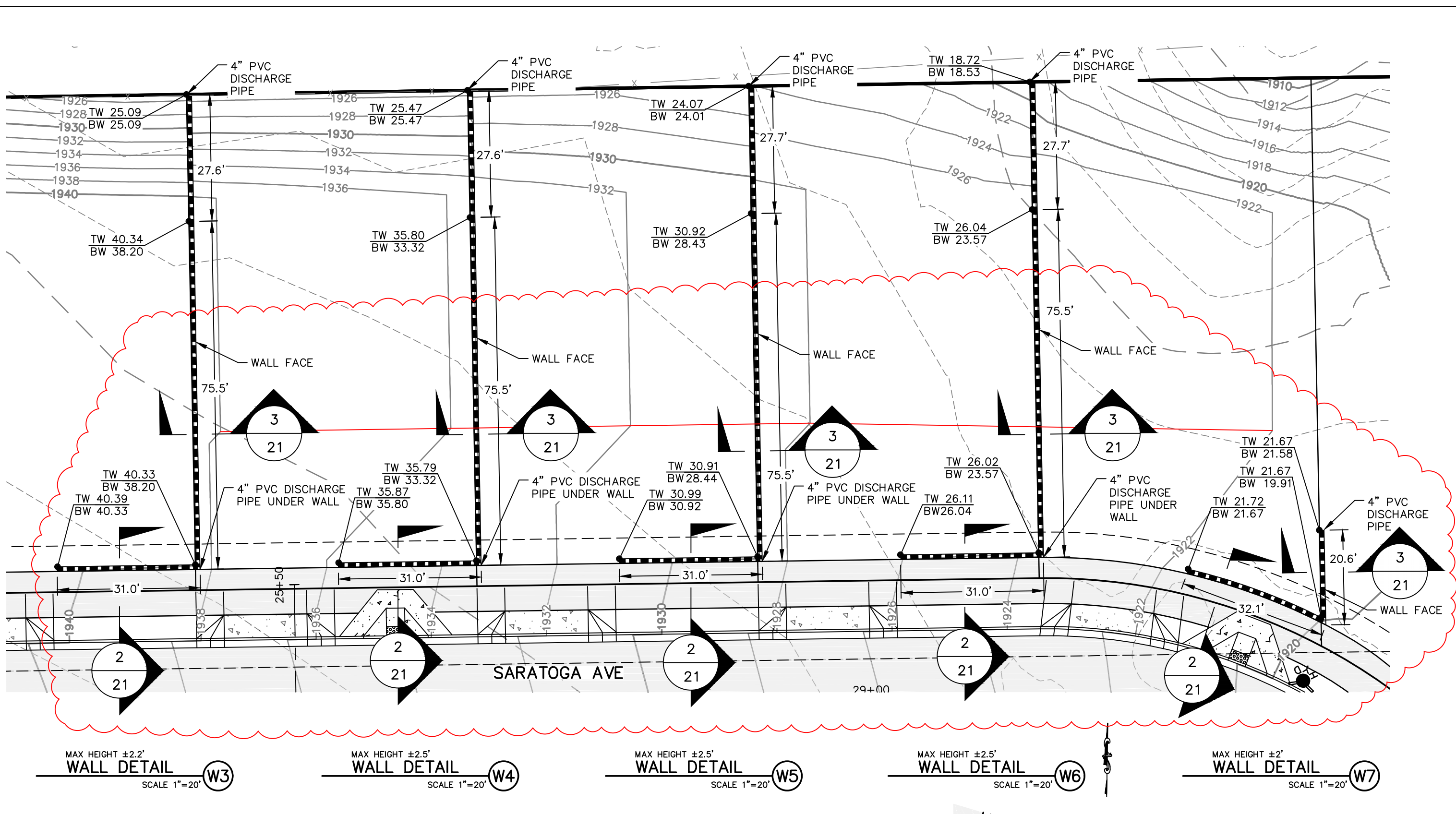
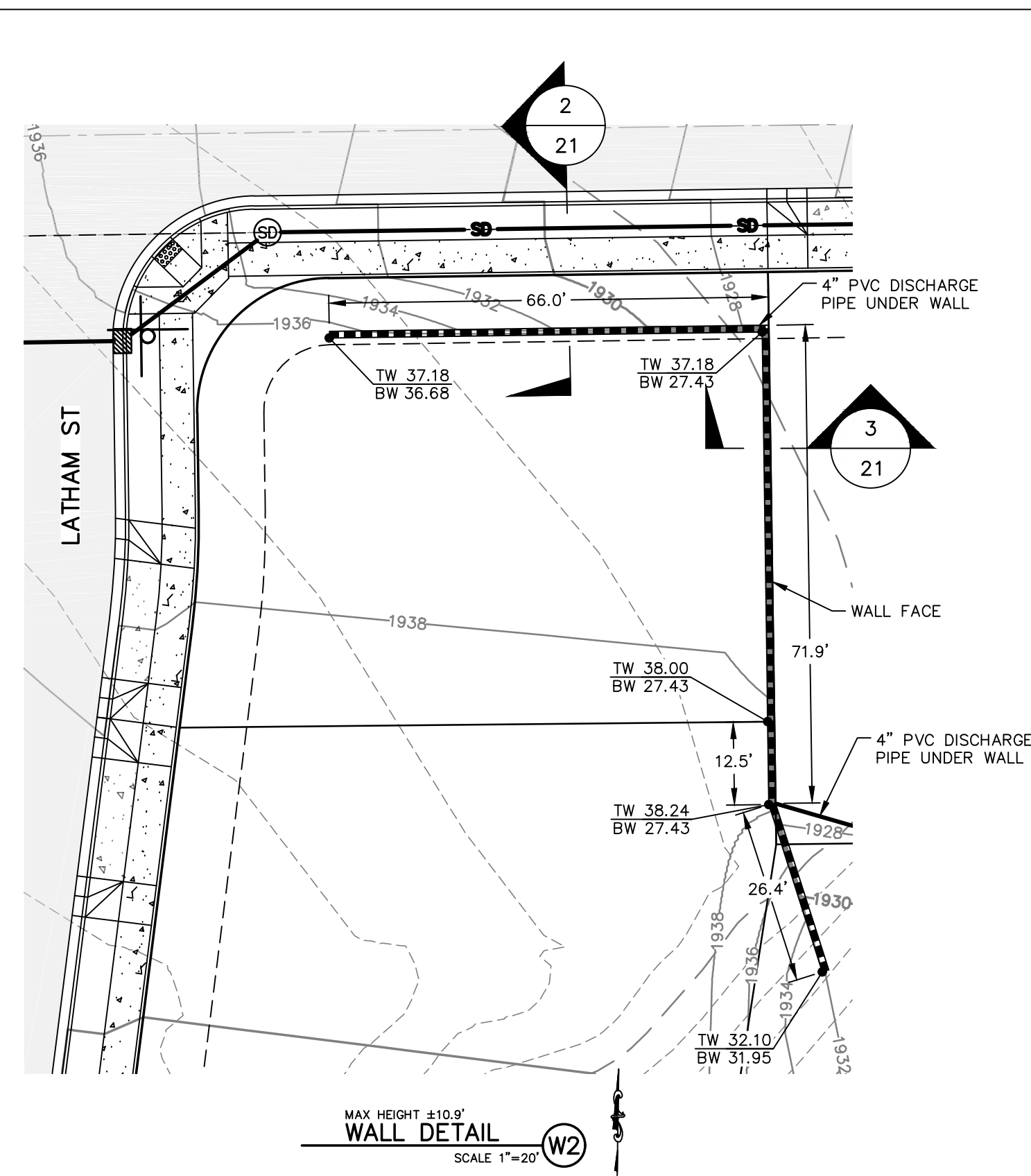
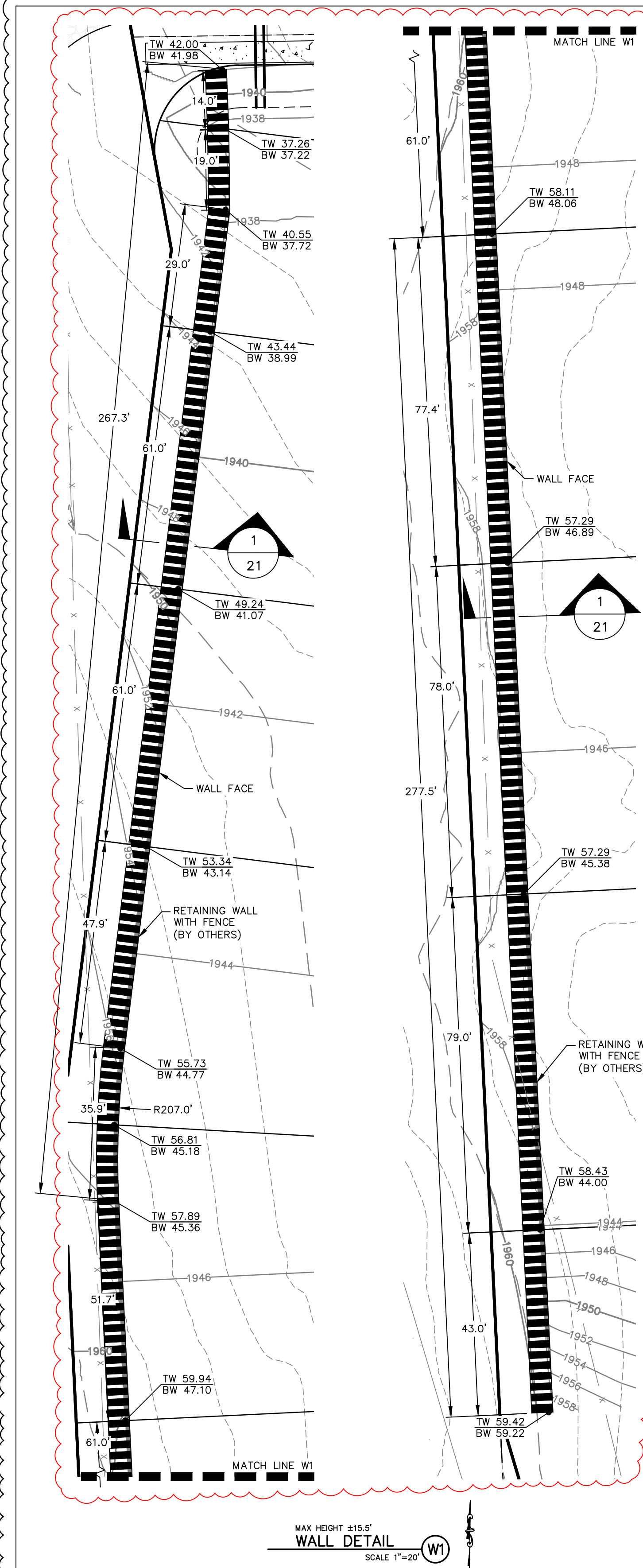
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SITE/DRAINAGE

PROJECT NO.	PLAN NO.
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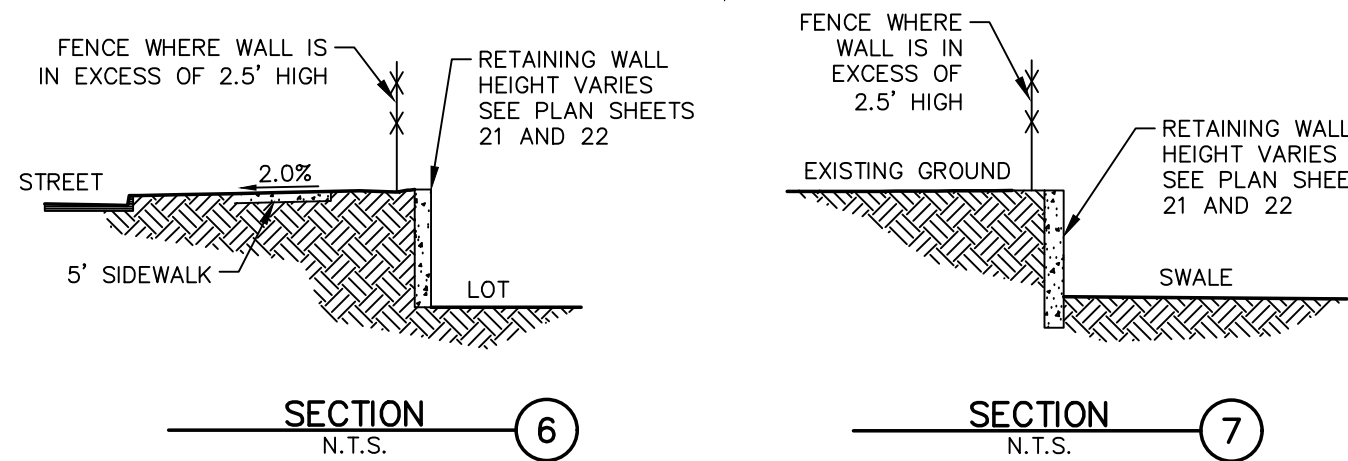
2023519/2023520	36-25N-42E
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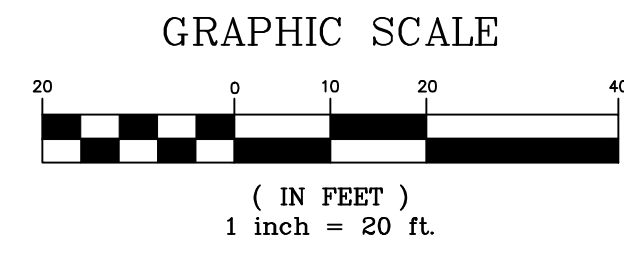
NOTES:

- RETAINING WALLS OVER 2.5' IN HEIGHT SHALL HAVE A FENCE ALONG THE TOP OF THE WALL.
- WALLS THAT EXCEED 4' IN HEIGHT SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER.
- RETAINING WALLS IN L.I.D. SWALES MUST BE DESIGNED BY A PROFESSIONAL ENGINEER AND NOT BY CONTRACTOR.
- CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER AND CITY OF SPOKANE INSPECTOR PRIOR TO CONSTRUCTION TO DETERMINE TYPE OF WALL TO BE INSTALLED AT EACH LOCATION.
- WALL DRAIN PIPES DAYLIGHTING TO FINISHED GRADE REQUIRE REINFORCED CONCRETE HEADWALL PER DETAIL ON SHEET 20. DISCHARGE POINTS ON PLAN ARE APPROXIMATE. CONTRACTOR TO FIELD FIT DRAINAGE DISCHARGE MAINTAINING A POSITIVE GRADE TO ALLOW DRAINAGE TO FLOW.



storhäug
civil engineering | planning
landscape architecture | surveying
SE #19-342
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

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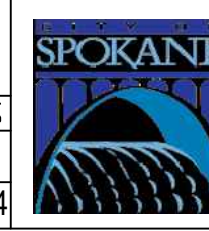
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DATE	BY	PROJECT	DESCRIPTION
5/14/26	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

NAVD88 = ESTABLISHED FROM GPS
NAVD88 ELEV. :1843.87
CBM NO. :
NAVD88 DATUM

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER
SCALE
HORIZONTAL SCALE (22 x 34) 1"=20'
VERTICAL SCALE (22 x 34) 1"=10'

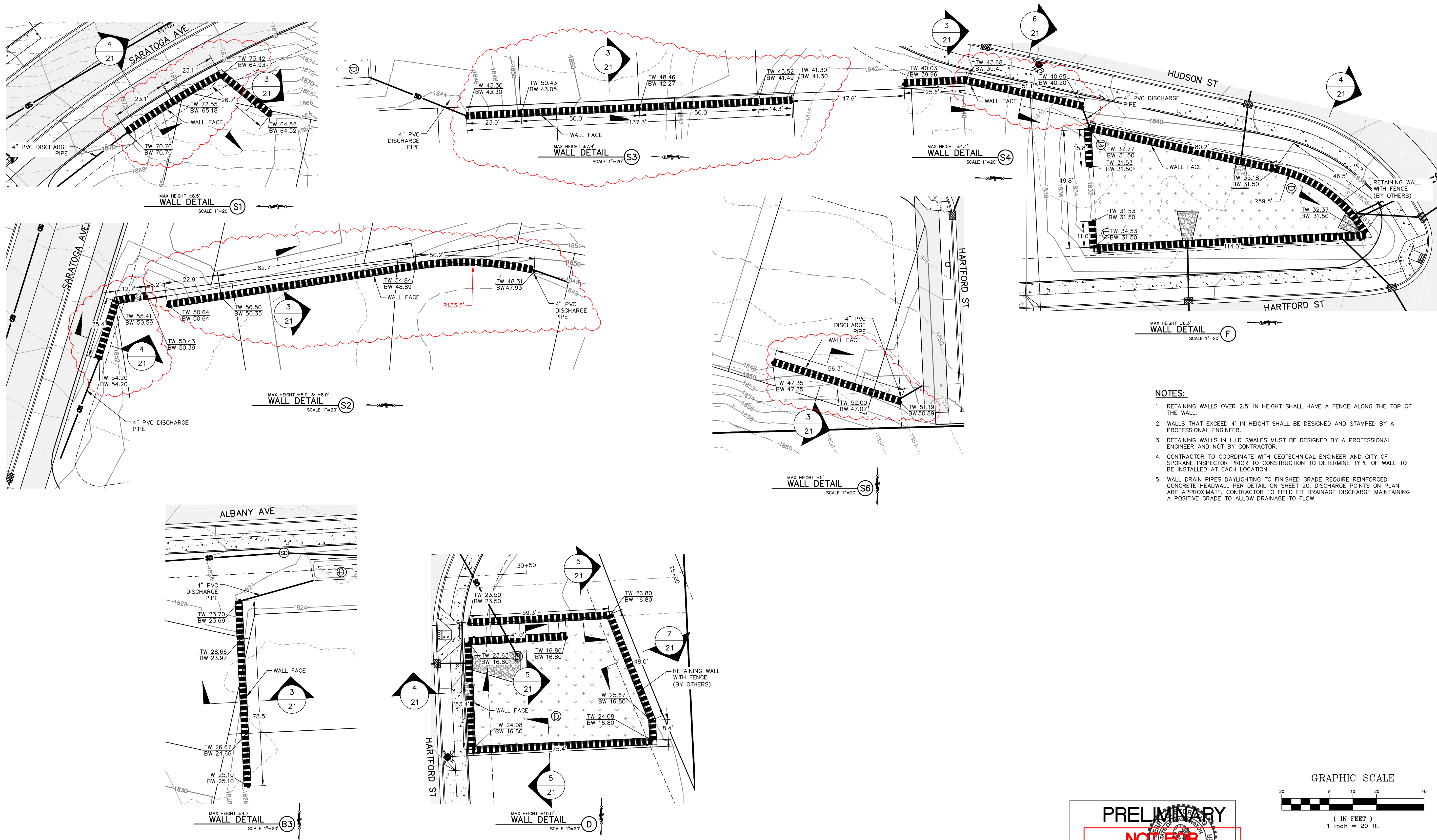
BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024



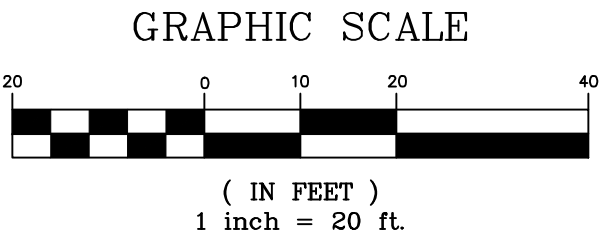
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

DATE: 6/11/24	PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY	TYPE OF IMPROVEMENT: SITE/DRAINAGE
SEGMENT LIMITS:	RETAINING WALL DETAILS	PROJECT NO. PLAN NO.
PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023519/2023520 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



- NOTES:**
- 1. RETAINING WALLS OVER 2.5' IN HEIGHT SHALL HAVE A FENCE ALONG THE TOP OF THE WALL.
 - 2. WALLS THAT EXCEED 4' IN HEIGHT SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER.
 - 3. RETAINING WALLS IN L.I.D. SWALES MUST BE DESIGNED BY A PROFESSIONAL ENGINEER AND NOT BY CONTRACTOR.
 - 4. CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER AND CITY OF SPOKANE INSPECTOR PRIOR TO CONSTRUCTION TO DETERMINE TYPE OF WALL TO BE INSTALLED AT EACH LOCATION.
 - 5. WALL DRAIN PIPES DAYLIGHTING TO FINISHED GRADE REQUIRE REINFORCED CONCRETE HEADWALL PER DETAIL 20. DISCHARGE POINTS ON PLAN ARE APPROXIMATE. CONTRACTOR TO FIELD FIT DRAINAGE DISCHARGE MAINTAINING A POSITIVE GRADE TO ALLOW DRAINAGE TO FLOW.



22
22



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REVISIONS				NAVD88 = ESTABLISHED FROM GPS		BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		BY DATES		CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700		PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY		TYPE OF IMPROVEMENT: SITE/DRAINAGE	
				NAVD88 ELEV. :1843.87	10' 0' 10' 20'			DRAWN: LMC	3/3/2023			SEGMENT LIMITS: RETAINING WALL DETAILS		PROJECT NO.	PLAN NO.
5/14/25	LC	19-342	GENERAL REVISION	CBM NO. :		SCALE	HORIZONTAL SCALE (22 x 34) 1"=20'	APPROVED: JDS	01/19/2024			PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023519/2023520	36-25N-42E
10/10/24	LC	19-342	GENERAL REVISION				VERTICAL SCALE (22 x 34) 1"=10'								
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS												
DATE	BY	PROJECT	DESCRIPTION	NAVD88 DATUM	SCALE IN FEET										

CALL BEFORE YOU DIG 1-800-424-5555

GENERAL NOTES

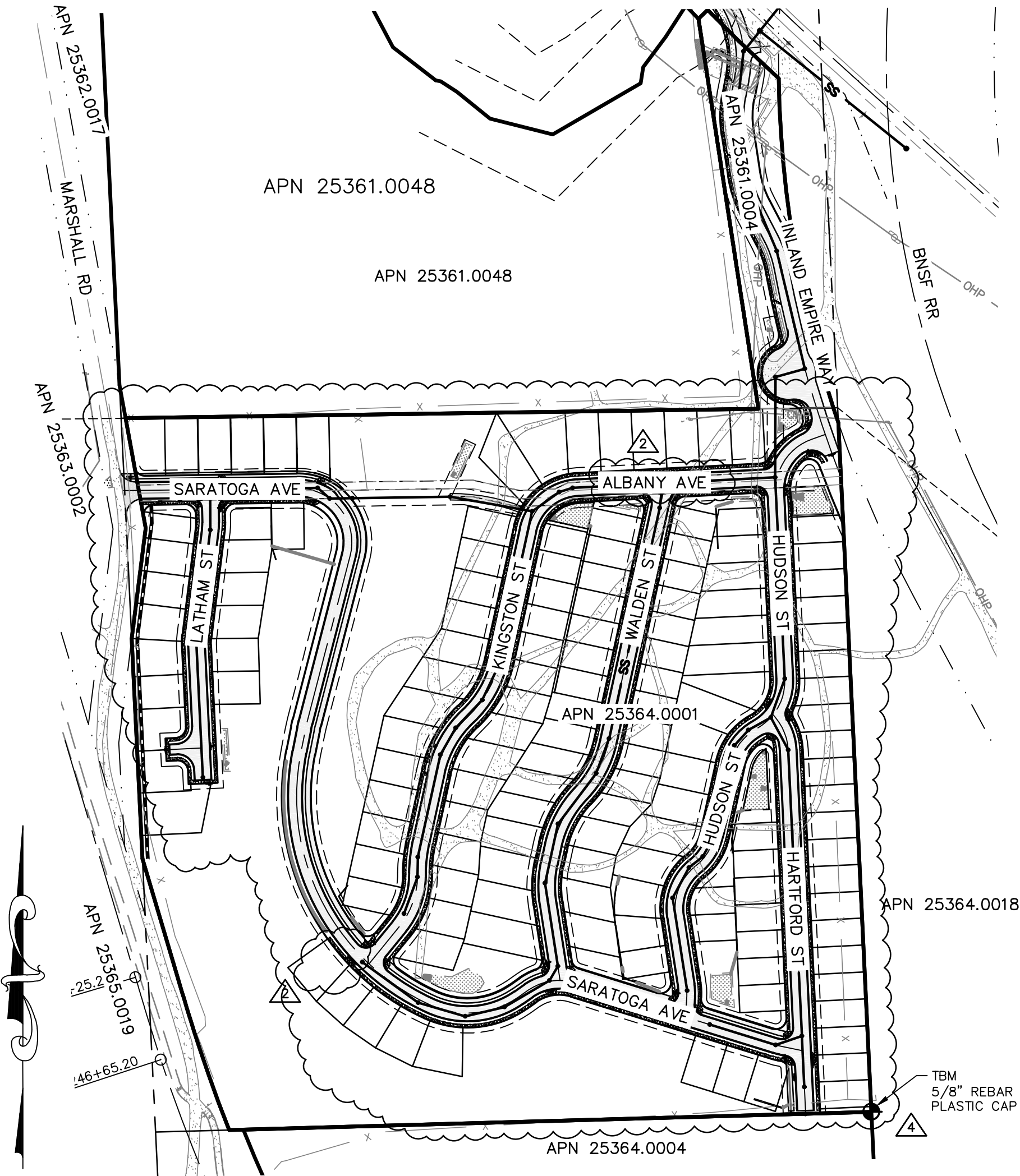
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL SEWER AND WATER IMPROVEMENTS.
2. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE, SPOKANE COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
3. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
4. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
5. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (CITY, COUNTY, OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND MADE AVAILABLE TO THE CITY OF SPOKANE PUBLIC WORKS INSPECTOR AT ALL TIMES.
8. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
9. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF SPOKANE COUNTY.
10. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 10:00 P.M. WEEKDAYS, 9:00AM AND 10:00PM WEEKENDS, UNLESS OTHERWISE APPROVED BY THE COUNTY.
11. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.
12. STATIONING AND OFFSET IS BASED ON STATIONING FOR THE REFERENCED STREET ALIGNMENT.
13. EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEED PRIOR TO CONSTRUCTION. COORDINATE WITH APPLICABLE UTILITY COMPANY.
14. RESTRAINTS SHALL BE INSTALLED ON ALL PRESSURE PIPELINES IN ACCORDANCE WITH CITY OF SPOKANE STANDARDS. REFER TO RESTRAINED JOINT TABLE ON THESE PLANS.

GENERAL SEWER NOTES

1. UNLESS SPECIFICALLY EXCEPTED IN THE PLANS OR CONTRACT DOCUMENTS ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE WASHINGTON CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION, (LATEST EDITION) & CITY OF SPOKANE SUPPLEMENTAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER ALL IMPROVEMENTS AS DETAILED OR CALLED OUT IN THESE PLANS
3. THE PLANS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH ACTUAL SITE CONDITIONS, REQUIREMENTS AND FACTORS AFFECTING THE WORK. WHERE LACK OF DETAIL OR CONFLICTS EXISTS BETWEEN THESE AND OTHER PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER TO RESOLVE THE ISSUE PRIOR TO PROCEEDING.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED OR CONSTRUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.
5. EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. ALL COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 2-03.3(14)C, METHOD B, OF THE STANDARD SPECIFICATION.
6. THESE PLANS MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
7. SHORING AND CRIBBING FOR UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SECTION 2-09 OF THE STANDARD SPECIFICATIONS.
8. ALL PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF CONSTRUCTION SPECIFICATIONS FOR SEWER LINES AS ADOPTED BY THE CITY OF SPOKANE.
9. ALL BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF CONSTRUCTION SPECIFICATIONS FOR SEWER LINES AS ADOPTED BY THE CITY OF SPOKANE.
10. MARKING TAPE WILL BE PLACED IN THE EXCAVATION TRENCH AT MID-DEPTH LOCATION FOR ALL UNDERGROUND SEWER PIPE INSTALLATIONS FOR THE PURPOSE OF ALERTING ANY FUTURE EXCAVATION IN THE SPECIFIC AREA.
11. AREAS WHICH REQUIRE THE PLACEMENT OF EMBANKMENT IN ORDER TO INSTALL SEWER, (I.E. PIPELINE INVERTS ARE ABOVE EXISTING GROUND ELEVATIONS) SHALL BE CONSTRUCTED PER THESE SPECIFICATIONS TO AN ELEVATION THREE (3) FEET ABOVE THE TOP OF PROPOSED PIPE. AT THIS POINT, TRENCHING AND BACKFILL FOR PLACEMENT OF WATER AND SEWER MAY BEGIN.
12. ALL SLEEVING OF SEWER LINES, IF NECESSARY, SHALL BE PER THE CITY OF SPOKANE STANDARD A-5.
13. MANHOLE FABRICATION IS TO BE PER CITY OF SPOKANE STD. PLAN Z-111.
14. CONTRACTOR TO CONSTRUCT CUT-OFF WALLS WHERE DETERMINED BY THE CITY FIELD ENGINEER PER PLAN NO. B-19.

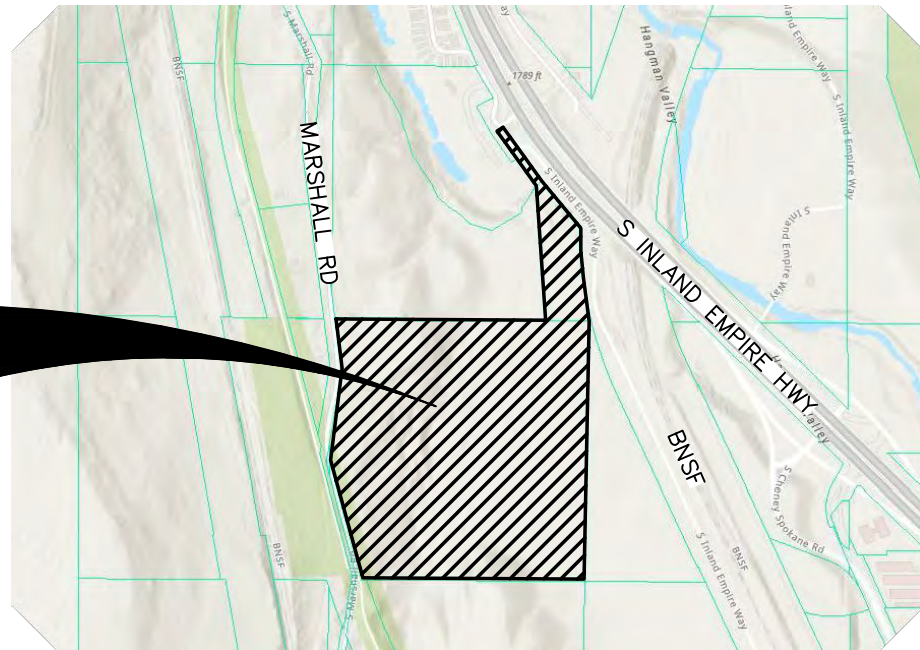
SANITARY SEWER IMPROVEMENTS
LATAH GLEN RESIDENTIAL COMMUNITY

SECTION 36, TOWNSHIP 25 NORTH, RANGE 42 EAST, W.M.,
CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



SANITARY SEWER SHEET INDEX		
△	△	SHEET NO. 1 - SANITARY SEWER COVER
△	△	SHEET NO. 2 - INLAND EMPIRE WAY SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 3 - SARATOGA AVE SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 4 - SARATOGA AVE SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 5 - LATHAM ST SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 6 - KINGSTON ST & ALBANY AVE SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 7 - WALDEN ST SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 8 - HUDSON ST SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 9 - HARTFORD ST SANITARY SEWER PLAN & PROFILE
△	△	SHEET NO. 10 - NORTH SEWER MAIN CONNECTION PLAN & PROFILE
SHEET NO. 11 - SEWER DETAILS		

PROJECT AREA



VICINITY MAP

LEGEND

EXISTING FEATURES

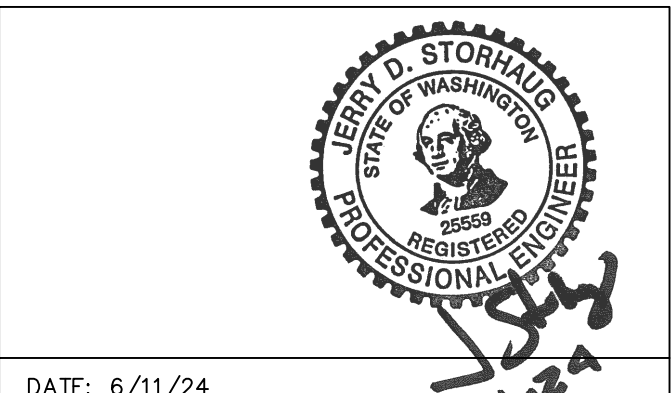
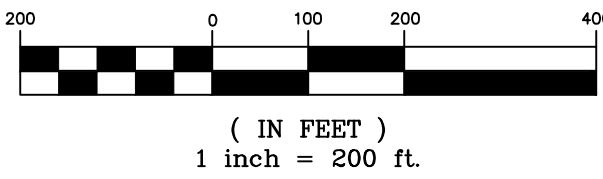
ASPHALT SURFACING	W	WATER LINE
CURB	SS	SANITARY SEWER LINE
GRAVEL	SD	STORM DRAIN LINE / CULVERT
SIDEWALK OR CONCRETE	OHP	POWER LINE (OHP OR BP)
DRYWELL	BT	TELEPHONE LINE (OHT OR BT)
STORM MANHOLE	G	GAS LINE
CATCH BASIN	-24.34-	CONTOURS
POWER POLE/TELEPHONE POLE	X	FENCE
TELEPHONE ENCLOSURE	BFO	FIBER OPTIC LINE
WATER VALVE		
FIRE HYDRANT		
SANITARY SEWER MANHOLE		
LIGHT POLE		
SIGN		
UTILITY VAULT		
ELECTRICAL TRANSFORMER		

LEGEND

PROPOSED IMPROVEMENTS

ASPHALT SURFACING	8"WA	CLEANOUT (CO)
CURB	SS	GAS METER
CONCRETE OR SIDEWALK	SD	WATER LINE (AS SIZED)
DRYWELL	1924	SLEEVE FOR WATER / SEWER CROSSING
STORM MANHOLE	1924.50	SANITARY SEWER LINE
CONCRETE INLET	1924.00	STORM DRAIN LINE / CULVERT
CURB INLET	1924.00	CONTOURS
POWER POLE	1924.00	STORM WATER SWALE / POND
SIGN	1924.00	DIRECTION OF SURFACE STORM WATER DRAINAGE
WATER VALVE		
WATER METER		
FIRE HYDRANT		
WATER SHUTOFF / WATER VAULT		
SANITARY SEWER MANHOLE		
INACTIVE/COMPLETED PHASE		

GRAPHIC SCALE



1
11

REVISIONS				NAVD88 = ESTABLISHED FROM GPS				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER				BY DATES			
				NAVD88 ELEV. :1843.87	100'	0'	100'	200'				DRAWN:	LMC	3/3/2023	
				CBM NO. :								APPROVED:	JDS	01/19/2024	
				NAVD88 DATUM											
5/14/25	LC	19-342	GENERAL REVISION	3											
10/10/24	LC	19-342	GENERAL REVISION	2											
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1											
DATE	BY	PROJECT	DESCRIPTION												



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
SANITARY SEWER COVER
APN 25361.0001 & 25364.0001

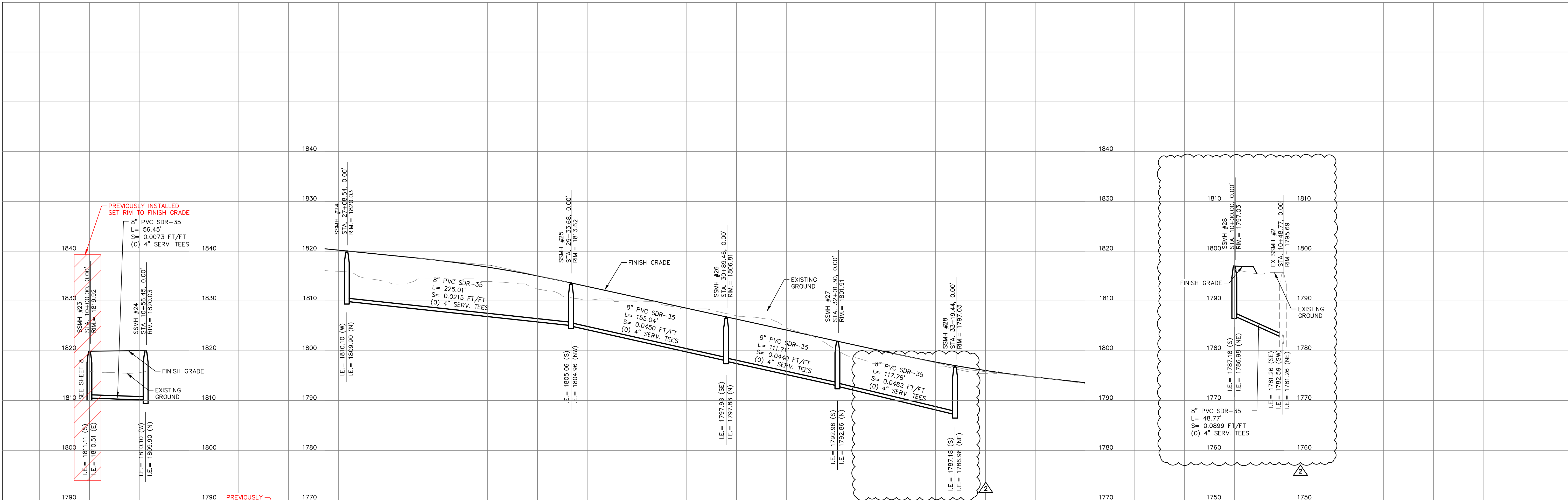
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SEWER

PROJECT NO. PLAN NO.

2023517 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



ENTRANCE SEWER MAIN PROFILE

INLAND EMPIRE WAY SEWER PROFILE

SEWER MAIN TO SR 195 PROFILE

TABLE

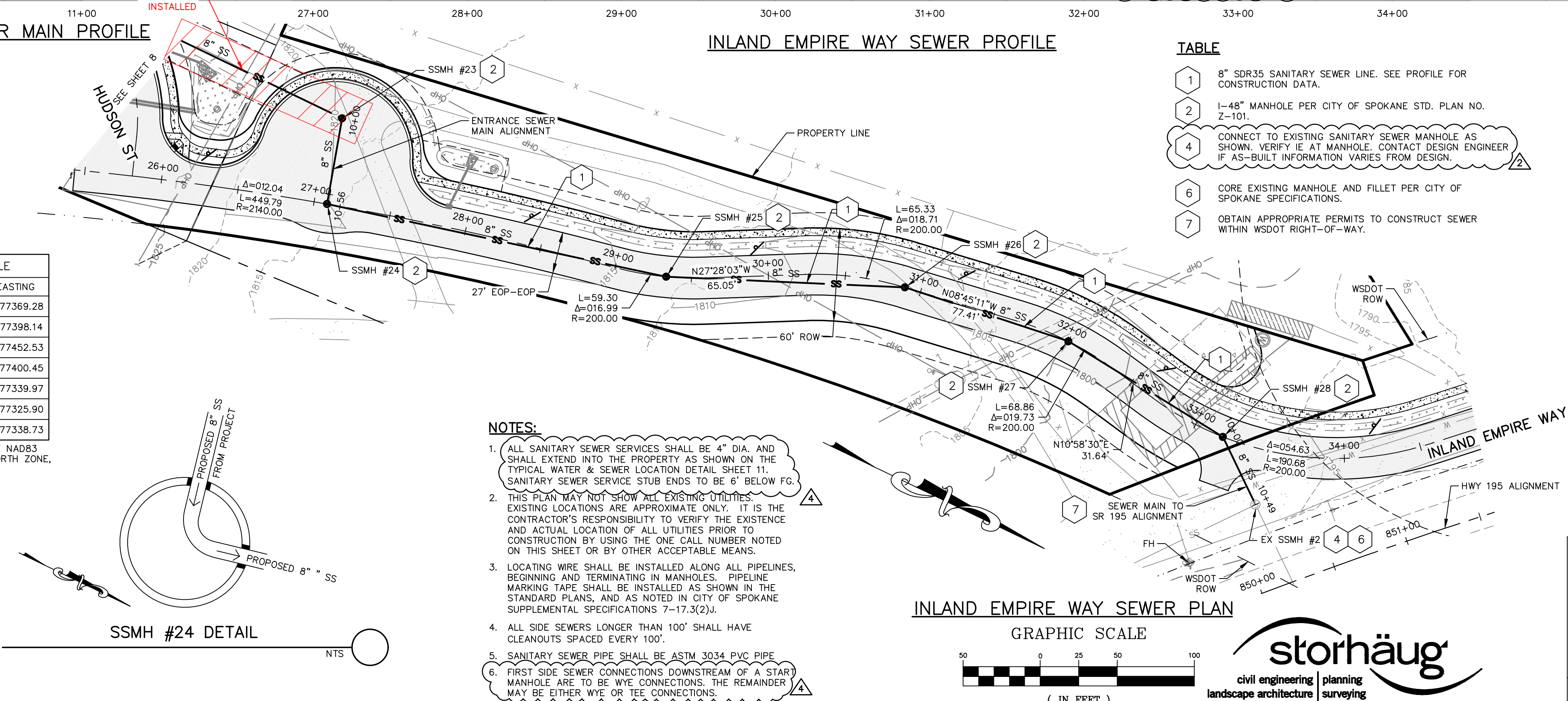
- | | |
|---|--|
| 1 | 8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA. |
| 2 | 1-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101. |
| 4 | CONNECT TO EXISTING SANITARY SEWER MANHOLE AS SHOWN. VERIFY IE AT MANHOLE. CONTACT DESIGN ENGINEER IF AS-BUILT INFORMATION VARIES FROM DESIGN. |
| 6 | CORE EXISTING MANHOLE AND FILLET PER CITY OF SPOKANE SPECIFICATIONS. |
| 7 | OBTAIN APPROPRIATE PERMITS TO CONSTRUCT SEWER WITHIN WSDOT RIGHT-OF-WAY. |

IN-LINE MANHOLE INSTALLATION GENERAL NOTES

- A. ALL MATERIALS FOR INSTALLATION SHALL BE ON SITE PRIOR TO CONSTRUCTION.
- B. ALL PIPE SHALL BE SAWCUT.
- C. THE CONTRACTOR SHALL PROHIBIT ANY DELIRIOUS MATERIAL FROM ENTERING SEWER LINE DURING CONSTRUCTION OF NEW MANHOLE.
- D. CITY INSPECTOR SHALL BE ONSITE AT TIME OF MANHOLE CONSTRUCTION. CALL 24 HRS. MIN. IN ADVANCE TO SCHEDULE INSPECTION, PERMIT AND INSPECTION REQUIRED.
- E. CONTRACTOR MAY PLUG THE EXISTING 27" LINE AT THE NEXT EXISTING UPSTREAM MANHOLE WHILE THE PROPOSED 8" LINE IS INSTALLED BUT MUST MONITOR UPSTREAM MANHOLES AND HAVE SUFFICIENT EQUIPMENT AVAILABLE TO AVOID A BACKUP OF SEWAGE INTO HOMES.
- F. IN-LINE MANHOLE CHANNEL MUST CLOSELY MATCH THE SLOPE OF THE EXISTING PIPE. FAILURE TO MATCH SLOPES WILL RESULT IN THE REJECTION OF THE MANHOLE.

MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
EX SSMH #2	245663.32	2477369.28
SSMH #23	245020.65	2477398.14
SSMH #24	245035.75	2477452.53
SSMH #25	245254.65	2477400.45
SSMH #26	245397.40	2477339.97
SSMH #27	245508.22	2477325.90
SSMH #28	245625.30	2477338.73

NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.

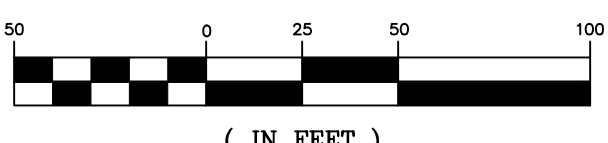


NOTES:

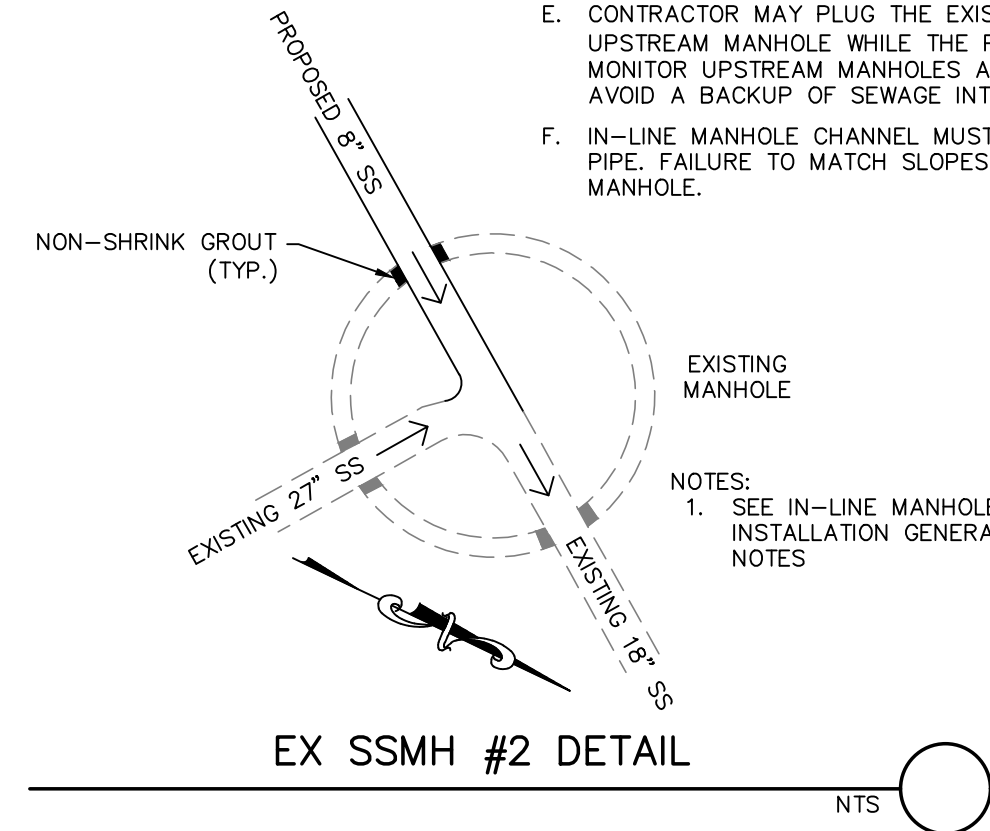
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- ALL SIDE SEWERS LONGER THAN 100' SHALL HAVE CLEANOUTS SPACED EVERY 100'.
- SANITARY SEWER PIPE SHALL BE ASTM 3034 PVC PIPE.
- FIRST SIDE SEWER CONNECTIONS DOWNSTREAM OF A STAR MANHOLE ARE TO BE WYE CONNECTIONS. THE REMAINDER MAY BE EITHER WYE OR TEE CONNECTIONS.

INLAND EMPIRE WAY SEWER PLAN

GRAPHIC SCALE

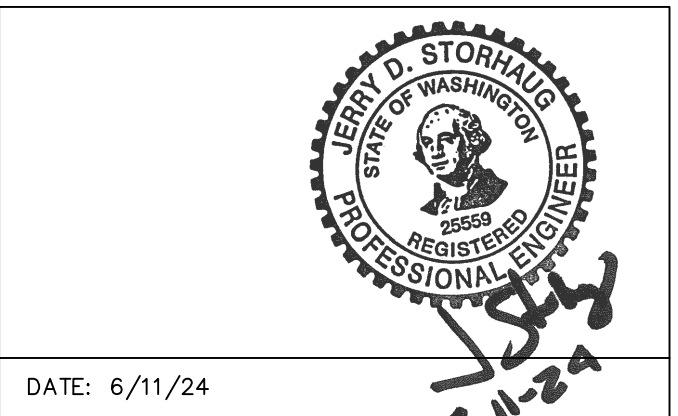


storhäug
civil engineering | planning
landscape architecture | surveying
SE#19-342
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001



EX SSMH #2 DETAIL

NTS



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
INLAND EMPIRE WAY SANITARY SEWER
PLAN & PROFILE: STA 25+43 TO STA 38+45

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SEWER
PROJECT NO.: 2023517
PLAN NO.: INLAN W (03) 1
36-25N-42E

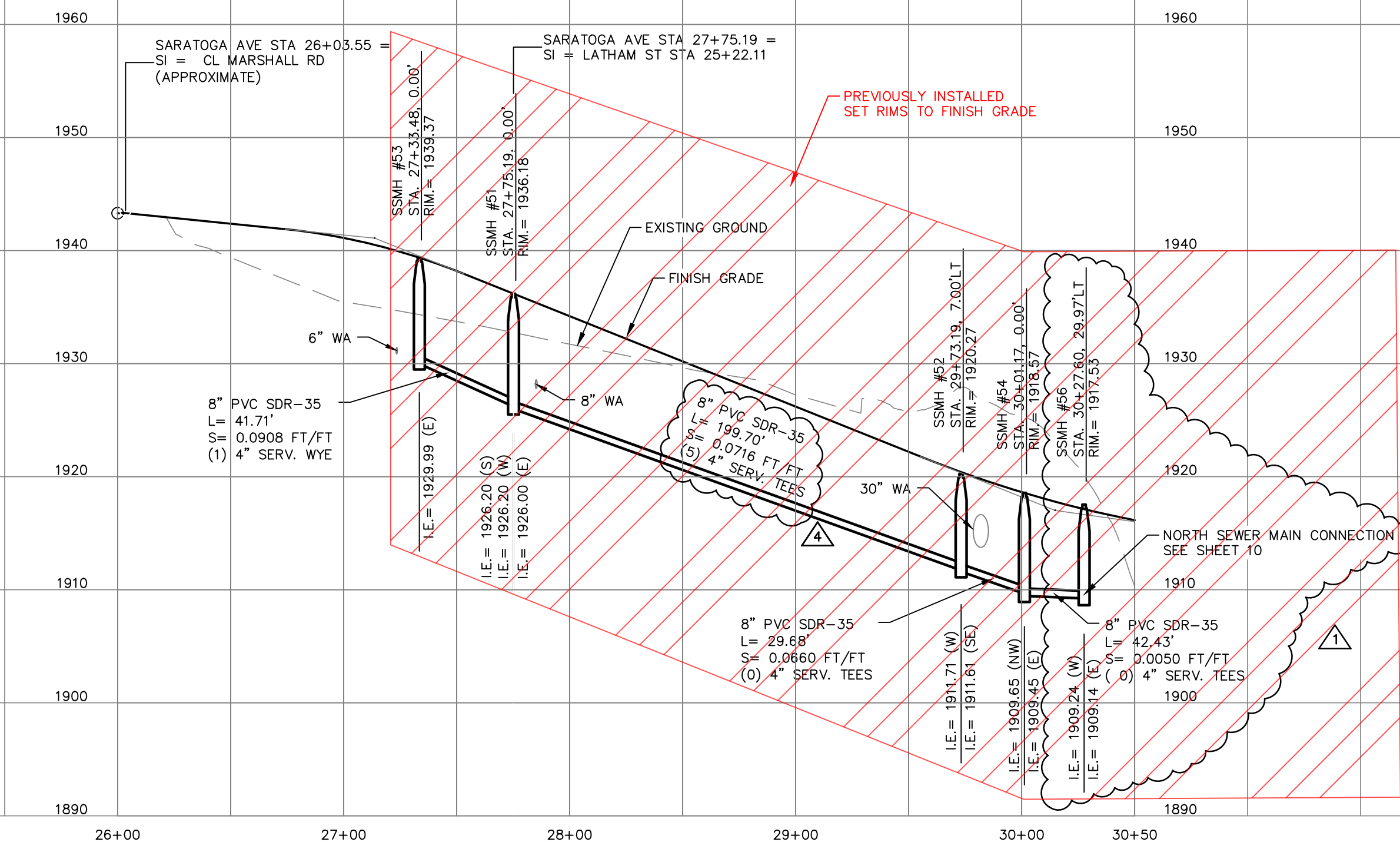
CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS			NAVD88 = ESTABLISHED FROM GPS		
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			CBM NO.:		
			NAVD88 DATUM		
5/14/25	LC	19-342	GENERAL REVISION	3	
10/10/24	LC	19-342	GENERAL REVISION	2	
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	
DATE	BY	PROJECT	DESCRIPTION		

SCALE	HORIZONTAL SCALE (22 x 34)	1"=50'
	VERTICAL SCALE (22 x 34)	1"=10'

BY	DATES
LMC	3/3/2023
JDS	01/19/2024

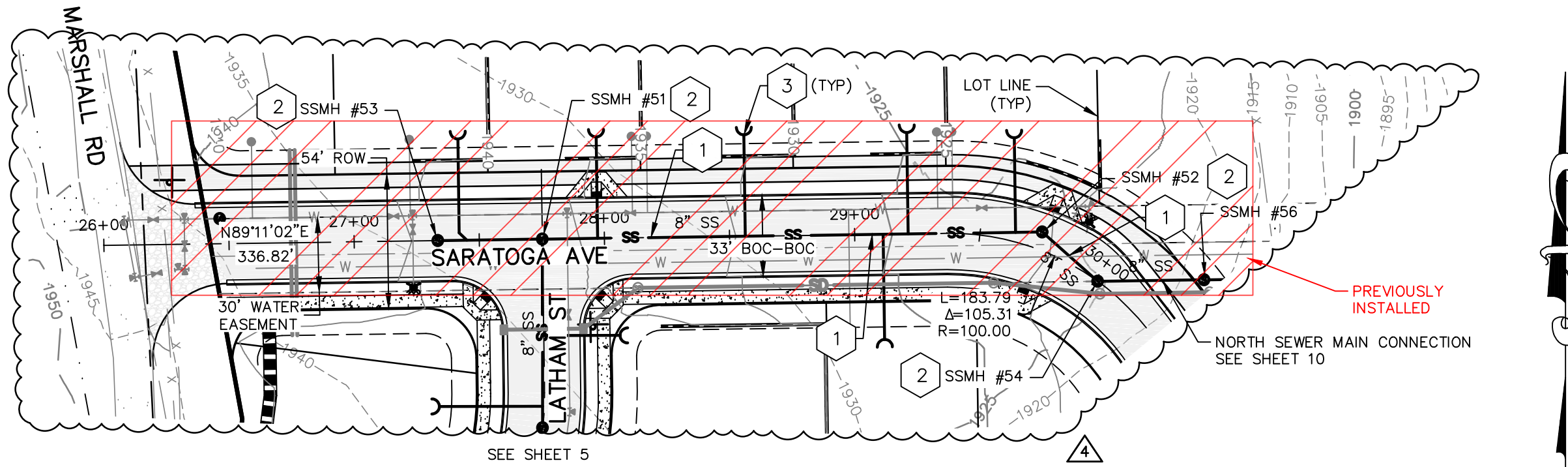
CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700
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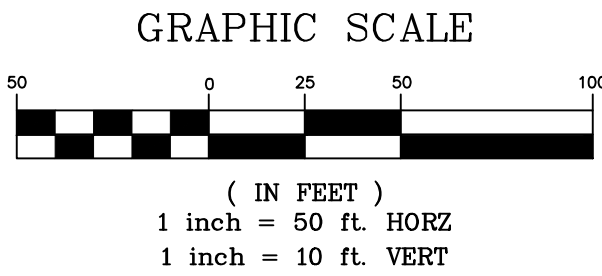
SARATOGA AVE SEWER PROFILE
STA 26+00 TO 30+50

MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
SSMH #51	244811.85	2476348.66
SSMH #52	244814.70	2476548.34
SSMH #53	244811.26	2476306.95
SSMH #54	244795.01	2476570.55

NORTHINGS AND EASTINGS ARE NAD83
WASHINGTON STATE PLANE, NORTH ZONE,
COORDINATES.



SARATOGA AVE SEWER PLAN
STA 26+00 TO 30+50



TABLE

1	8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA.
2	1-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101.
3	4" SANITARY SEWER SERVICE PER THE CITY OF SPOKANE STD. PLAN NO. Z-116. EXTEND 10' PAST UTILITY EASEMENT. SANITARY SEWER SERVICE STUB ENDS TO BE 6" BELOW FG.

NOTES:

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- ALL SIDE SEWERS LONGER THAN 100' SHALL HAVE CLEANOUTS SPACED EVERY 100'.
- SANITARY SEWER PIPE SHALL BE ASTM 3034 PVC PIPE.
- FIRST SIDE SEWER CONNECTIONS DOWNSTREAM OF A START MANHOLE ARE TO BE WYE CONNECTIONS. THE REMAINDER MAY BE EITHER WYE OR TEE CONNECTIONS.



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
SARATOGA AVE SANITARY SEWER
PLAN & PROFILE STA 26+00 TO STA 30+50

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SEWER
PROJECT NO. PLAN NO.

2023517 SARAT A (03) 4
36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV.: 1843.87	
				CBM NO. :	
				NAVD88 DATUM	
5/14/25	LC	19-342	GENERAL REVISION		
10/10/24	LC	19-342	GENERAL REVISION		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS		
DATE	BY	PROJECT	DESCRIPTION		



BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE HORIZONTAL SCALE (22 x 34) 1"=50'
VERTICAL SCALE (22 x 34) 1"=10'

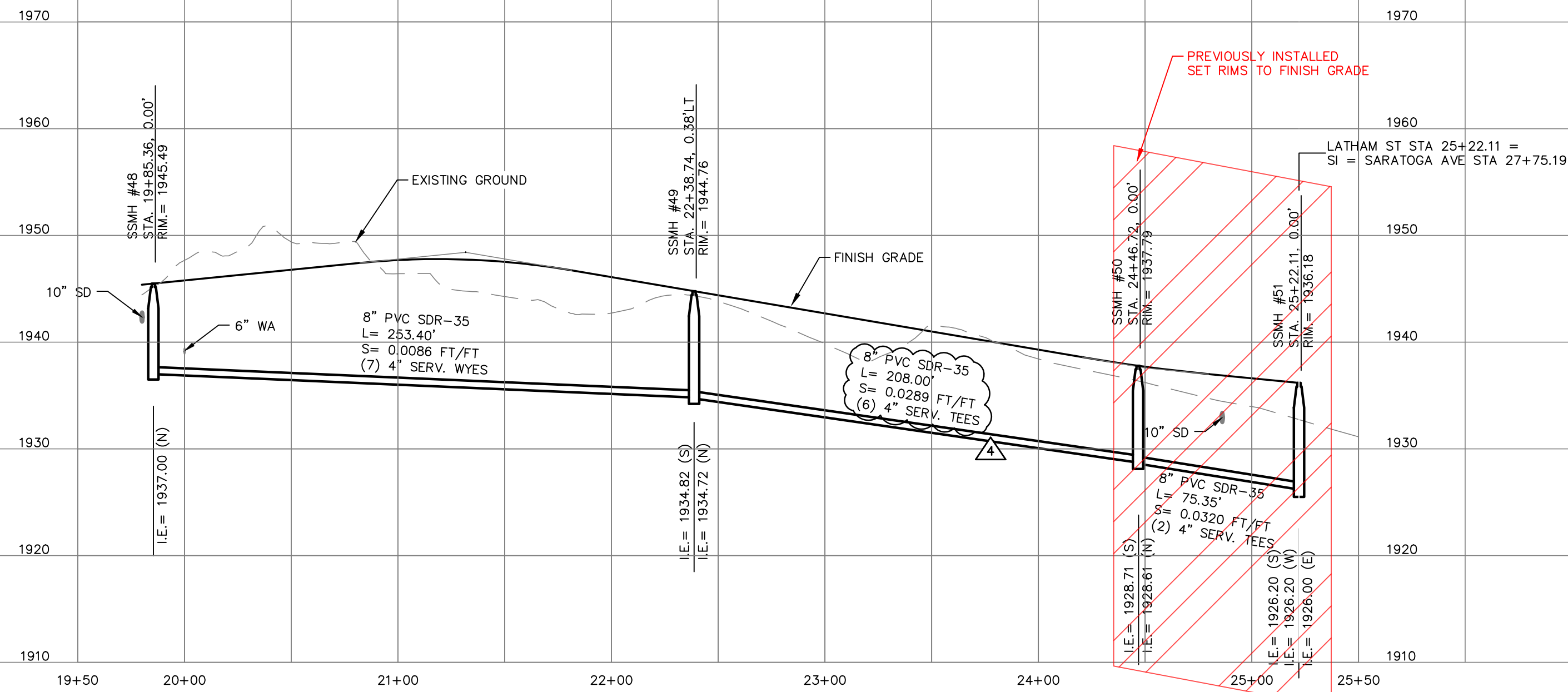
BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700



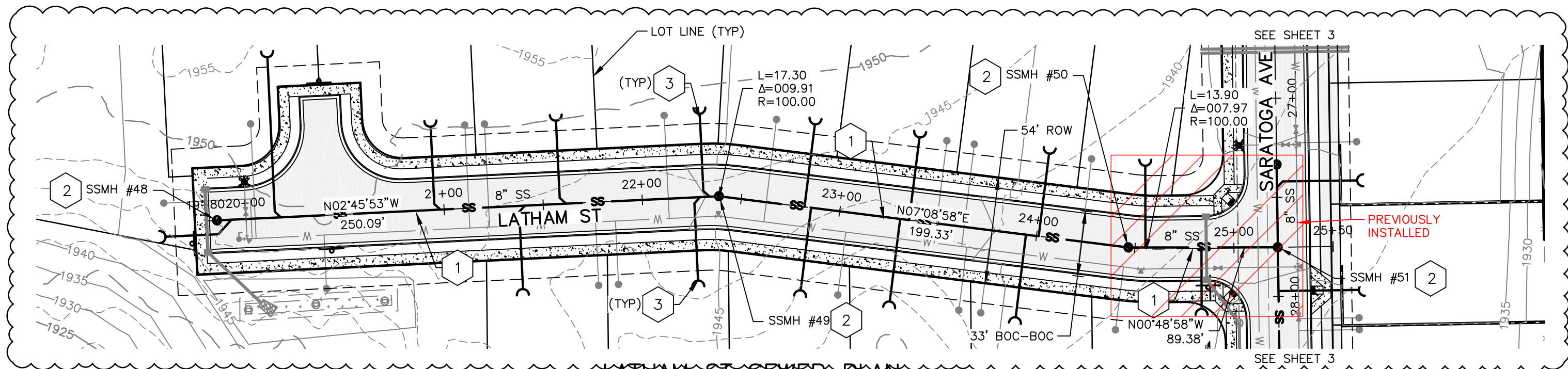
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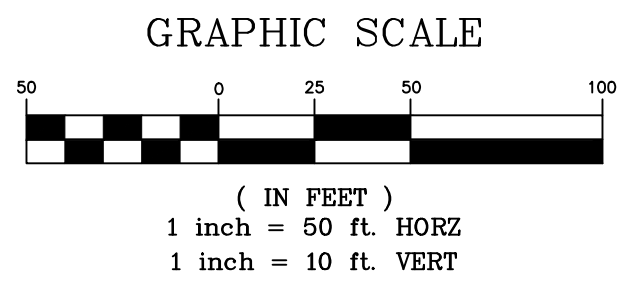
LATHAM ST SEWER PROFILE

MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
SSMH #48	244277.01	2476335.10
SSMH #49	244530.12	2476322.88
SSMH #50	244736.50	2476348.77
SSMH #51	244811.85	2476348.66

NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.



LATHAM ST SEWER PLAN



TABLE

1	8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA.
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3	4" SANITARY SEWER SERVICE PER THE CITY OF SPOKANE STD. PLAN NO. Z-116. EXTEND 10' PAST UTILITY EASEMENT. SANITARY SEWER SERVICE STUB ENDS TO BE 6" BELOW FG.

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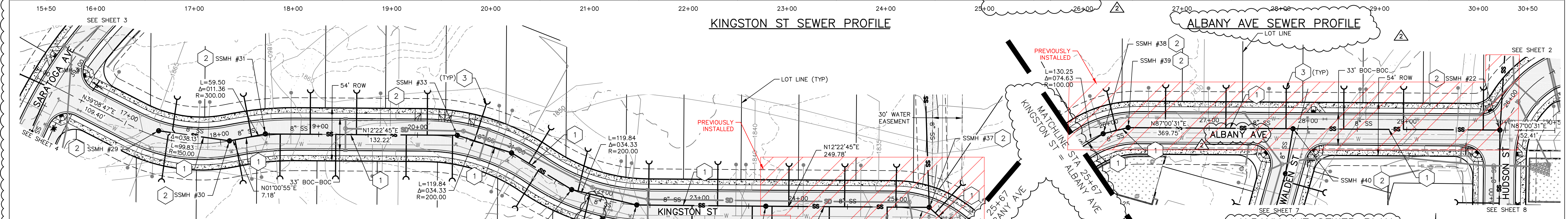
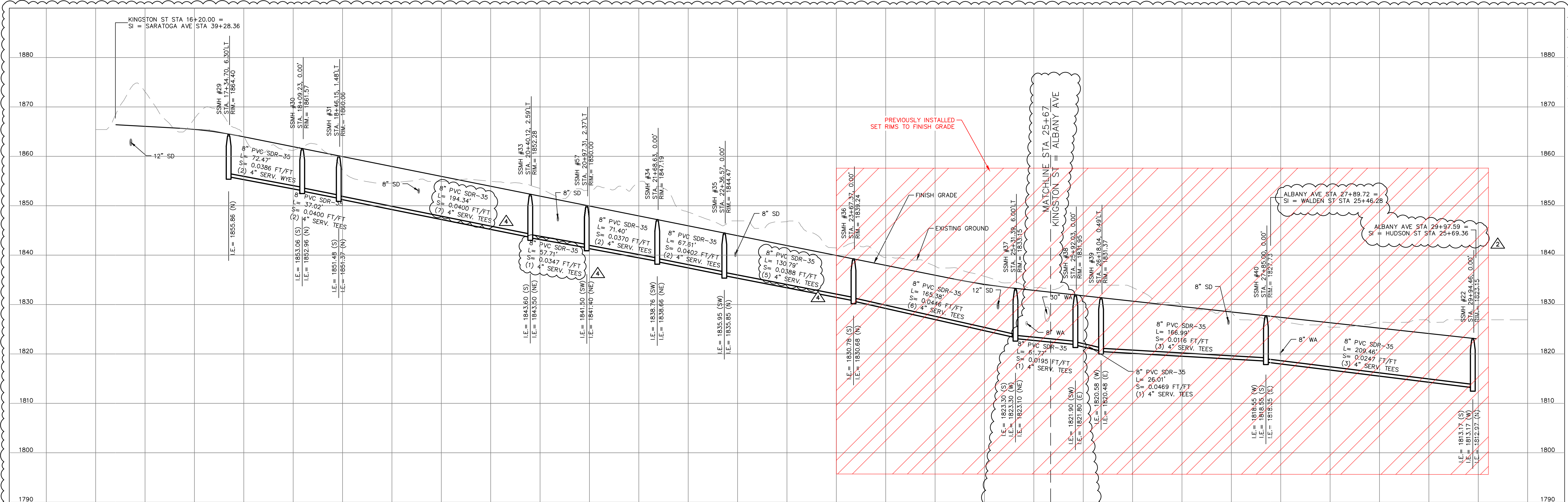


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11

REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		
				CBM NO. :			
				NAVD88 DATUM	SCALE IN FEET		
					25' 0' 25' 50'	SCALE	
						HORIZONTAL SCALE (22 x 34)	1"=50'
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5/14/25	LC	19-342	GENERAL REVISION	3	BY DATES DRAWN: LMC 3/3/2023 APPROVED: JDS 01/19/2024		
10/10/24	LC	19-342	GENERAL REVISION	2			
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700		
DATE	BY	PROJECT	DESCRIPTION				

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY			
SEGMENT LIMITS:		TYPE OF IMPROVEMENT: SEWER	
LATHAM ST SANITARY SEWER		PROJECT NO. PLAN NO.	
PLAN & PROFILE		2023517 LATHA S (02) 4	
PROJECT LIMITS: LATAH GLEN RESIDENTIAL		36-25N-42E	

CALL BEFORE YOU DIG 1-800-424-5555



MANHOLE SCHEDULE

STRUCTURE	NORTHING	EASTING
SSMH #22	244834.41	2477397.43
SSMH #29	244024.08	2476708.59
SSMH #30	244092.15	2476733.47
SSMH #31	244129.17	2476734.13
SSMH #33	244318.99	2476775.79
SSMH #34	244420.87	2476853.66
SSMH #35	244481.98	2476882.59
SSMH #36	244609.66	2476910.93
SSMH #37	244771.19	2476946.38
SSMH #38	244807.12	2476996.63
SSMH #39	244814.77	2477021.49
SSMH #40	244823.48	2477188.25
SSMH #57	244368.99	2476804.60

NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.

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REVISIONS

DATE	BY	PROJECT	DESCRIPTION
5/14/25	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

NAVD88 = ESTABLISHED FROM GPS

NAVD88 ELEV. :1843.87
CBM NO. :
NAVD88 DATUM

SCALE IN FEET

25' 0' 25' 50'

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

SCALE	HORIZONTAL SCALE (22 x 34)	1"=50'
VERTICAL SCALE (22 x 34)	1"=10'	

GRAPHIC SCALE

(IN FEET)

HORZ: 1 inch = 50 ft.

VERT: 1 inch = 10 ft.

TABLE

1	8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA.
2	1-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101.
3	4" SANITARY SEWER SERVICE PER THE CITY OF SPOKANE STD. PLAN NO. Z-116. EXTEND 10' PAST UTILITY EASEMENT. SANITARY SEWER SERVICE STUB ENDS TO BE 6" BELOW FG.

storhäug

civil engineering | planning
landscape architecture | surveying

SE #19-342

510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

STATE OF WASHINGTON

JERRY V. STORHAUG
REGISTERED PROFESSIONAL ENGINEER
No. 25509

DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS: KINGSTON ST & ALBANY AVE SANITARY SEWER

PLAN & PROFILE

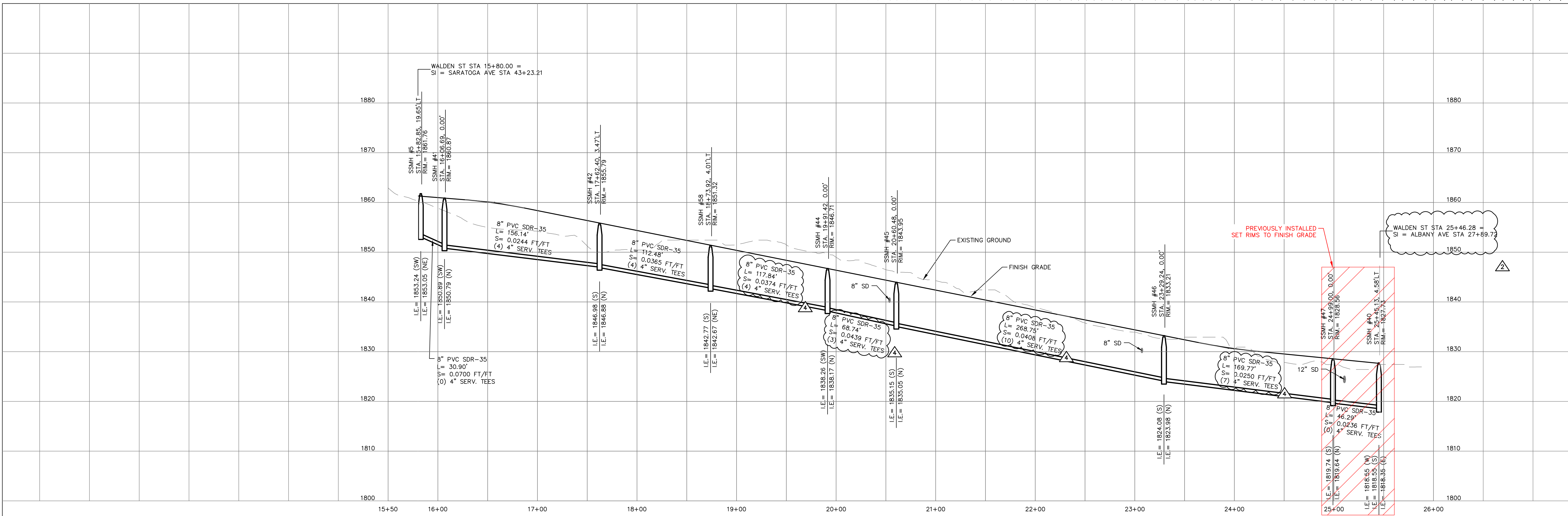
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SEWER

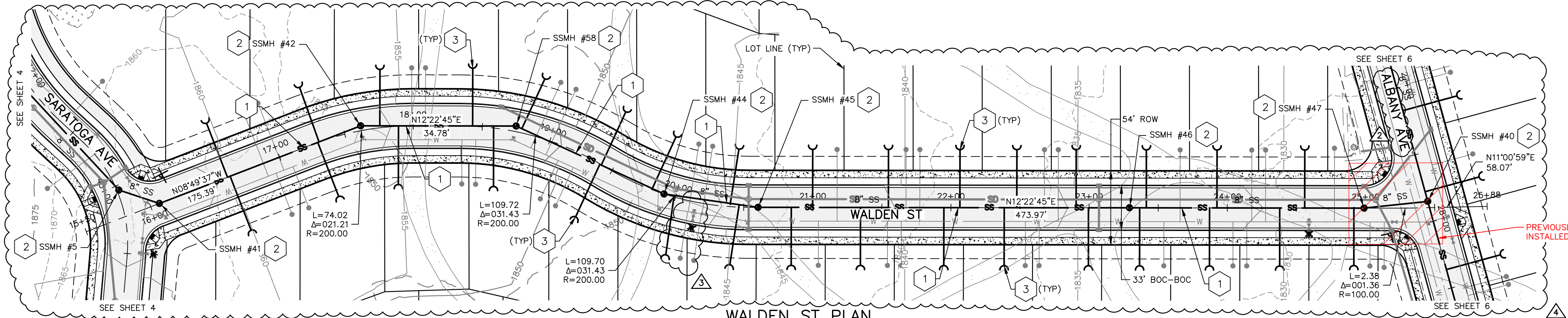
PROJECT NO. 2023517

PLAN NO. KINGS S (02) 4 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



WALDEN ST PROFILE



WALDEN ST PLAN

MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
SSMH #40	244823.48	2477188.25
SSMH #41	243926.45	2476994.19
SSMH #42	244080.74	2476970.23
SSMH #44	244284.71	2477065.27
SSMH #45	244349.14	2477089.23
SSMH #46	244611.65	2477146.84
SSMH #47	244777.47	2477183.23
SSMH #58	244190.60	2476994.35

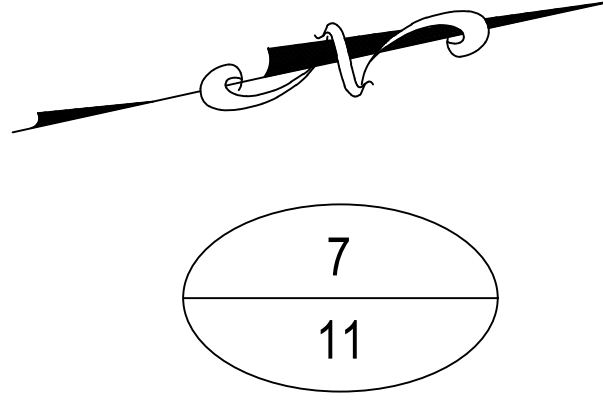
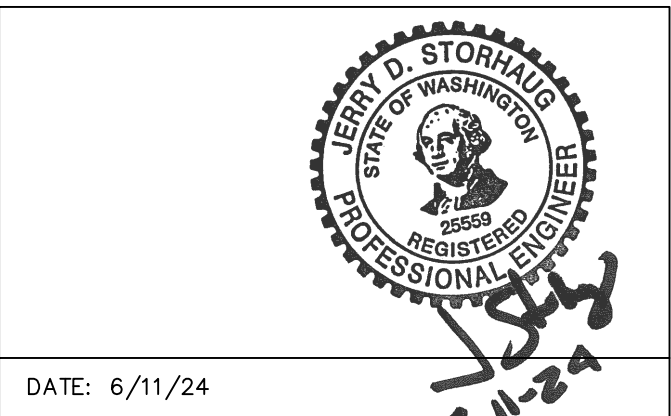
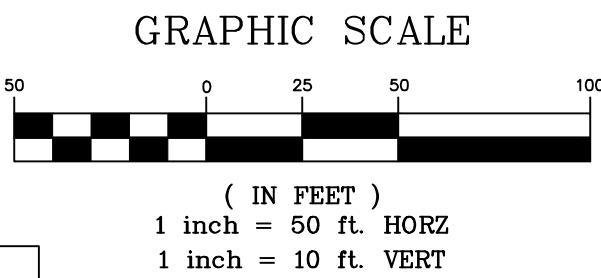
NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.

NOTES:

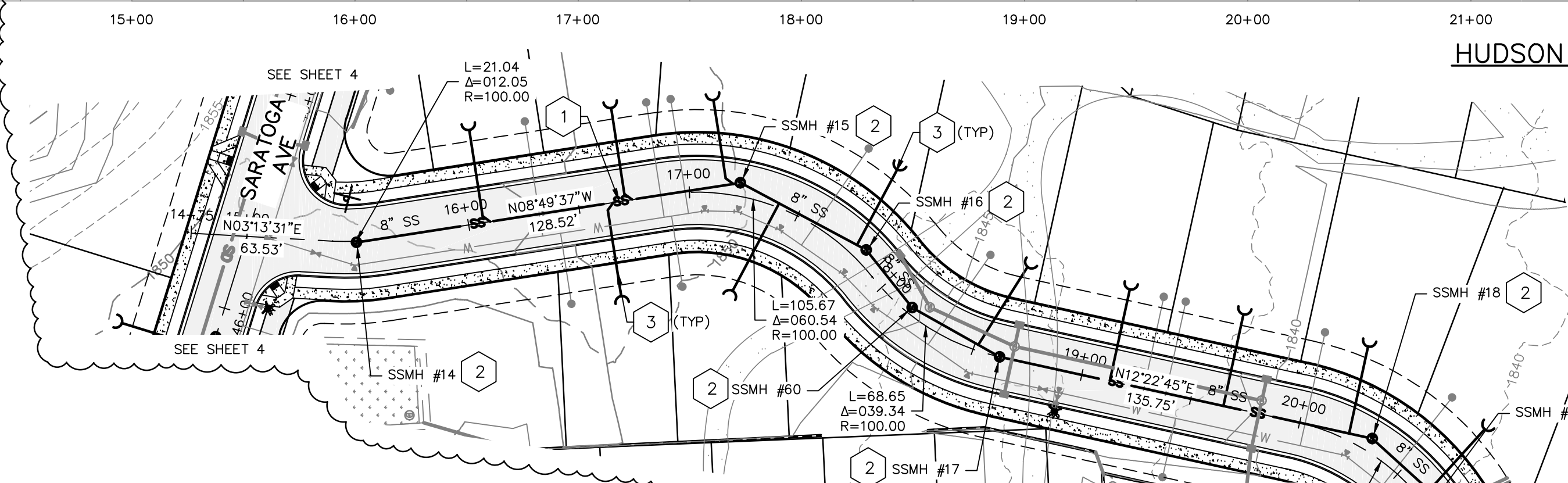
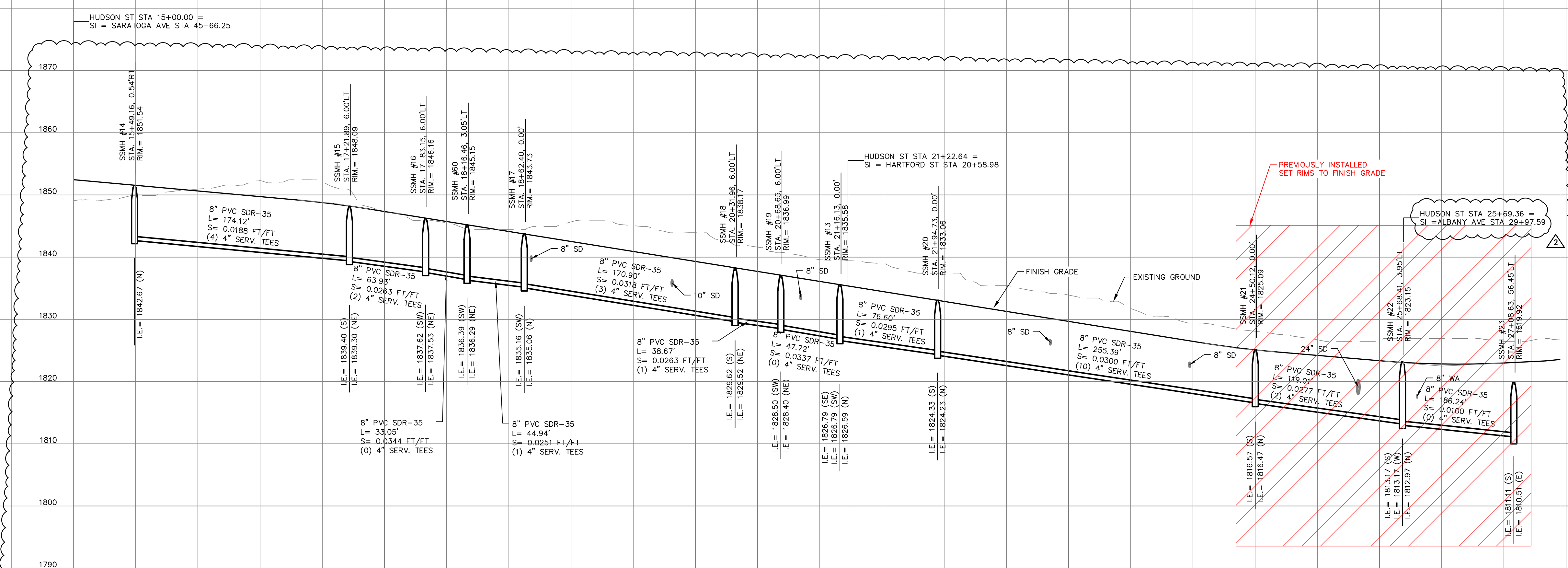
- ALL SANITARY SEWER SERVICES SHALL BE 4" DIA. AND SHALL EXTEND INTO THE PROPERTY AS SHOWN ON THE TYPICAL WATER & SEWER LOCATION DETAIL SHEET 11. SANITARY SEWER SERVICE STUB ENDS TO BE 6" BELOW FG.
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- ALL SIDE SEWERS LONGER THAN 100' SHALL HAVE CLEANOUTS SPACED EVERY 100'.
- SANITARY SEWER PIPE SHALL BE ASTM 3034 PVC PIPE.
- FIRST SIDE SEWER CONNECTIONS DOWNSTREAM OF A START MANHOLE ARE TO BE WYE CONNECTIONS. THE REMAINDER MAY BE EITHER WYE OR TEE CONNECTIONS.

TABLE

1	8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA.
2	1-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101.
3	4" SANITARY SEWER SERVICE PER THE CITY OF SPOKANE STD. PLAN NO. Z-116. EXTEND 10' PAST UTILITY EASEMENT. SANITARY SEWER SERVICE STUB ENDS TO BE 6" BELOW FG.



REVISIONS				NAVD88 = ESTABLISHED FROM GPS				1 inch = 10 ft. VERT				SE#19-342				p 509.242.1000 f 509.242.1001				PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY				
				NAVD88 ELEV. :1843.87	<div><div></div><div>25'0'25'50'</div></div>				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER				<div><div></div><div>SPOKANE</div></div>				CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700				SEGMENT LIMITS:		TYPE OF IMPROVEMENT:	
5/14/25	LC	19-342	GENERAL REVISION	3	SCALE IN FEET				SCALE		HORIZONTAL SCALE (22 x 34) 1"=50' VERTICAL SCALE (22 x 34) 1"=10'		DRAWN: LMC 3/3/2023 APPROVED: JDS 01/19/2024		WALDEN ST SANITARY SEWER PLAN & PROFILE		PROJECT NO.		PLAN NO.					
10/10/24	LC	19-342	GENERAL REVISION	2													2023517		WALDE S (02) 4 36-25N-42E					
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1													PROJECT LIMITS: LATAH GLEN RESIDENTIAL							
DATE	BY	PROJECT	DESCRIPTION																					

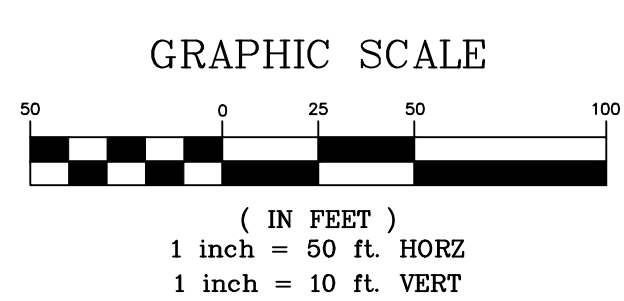


MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
SSMH #13	244388.36	2477389.43
SSMH #14	243881.14	2477233.99
SSMH #15	244053.19	2477207.27
SSMH #16	244109.59	2477237.37
SSMH #17	244169.35	2477285.24
SSMH #18	244336.28	2477321.88
SSMH #19	244364.90	2477347.88
SSMH #20	244460.44	2477415.35
SSMH #21	244715.54	2477403.12
SSMH #22	244834.41	2477397.43
SSMH #23	245020.65	2477398.14
SSMH #24	244130.17	2477263.23

NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.

HUDSON ST PROFILE

HUDSON ST PLAN




TABLE

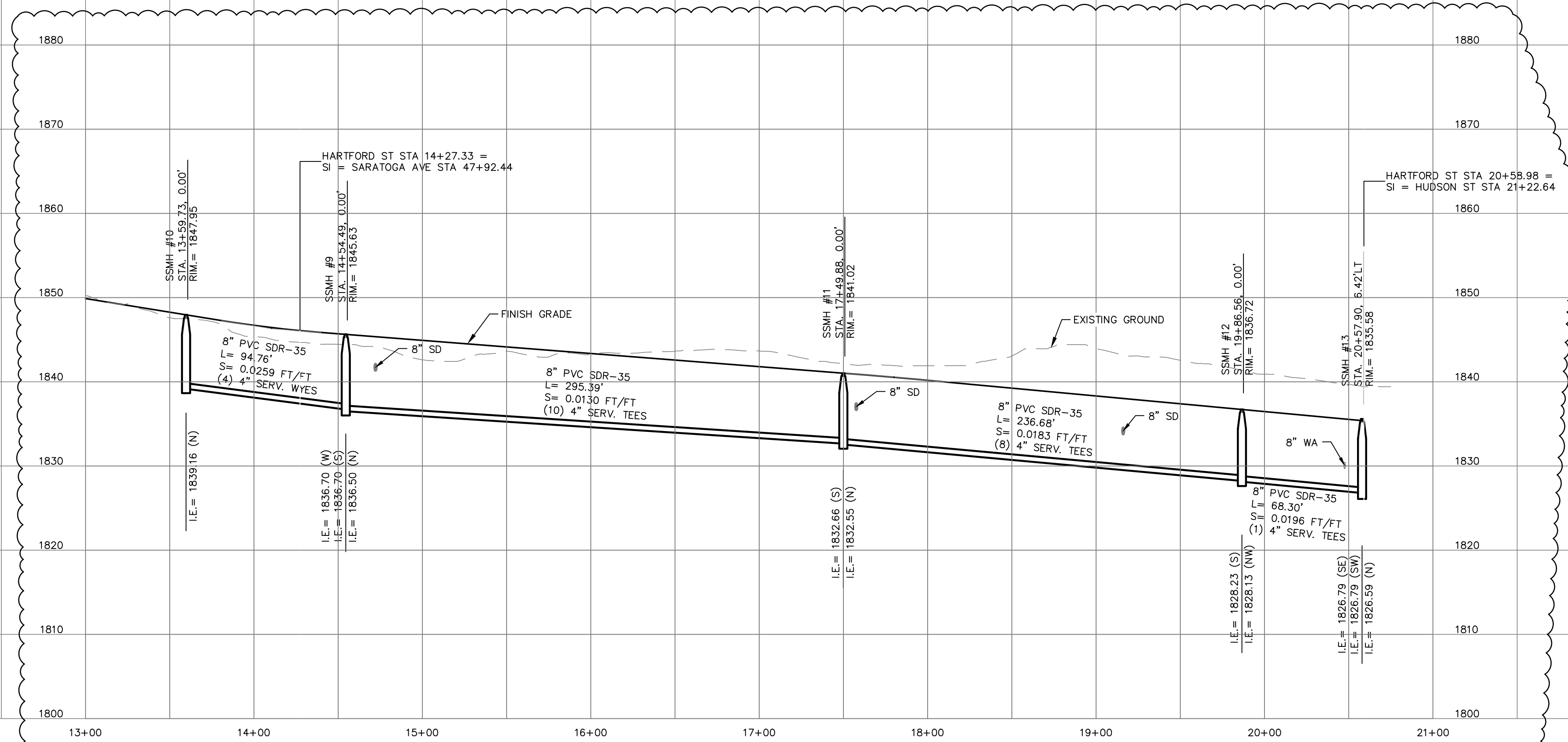
- | | |
|---|--|
| 1 | 8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA. |
| 2 | 1-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101. |
| 3 | 4" SANITARY SEWER SERVICE PER THE CITY OF SPOKANE STD. PLAN NO. Z-116. EXTEND 10' PAST UTILITY EASEMENT. SANITARY SEWER SERVICE STUB ENDS TO BE 6" BELOW FG. |

NOTES:

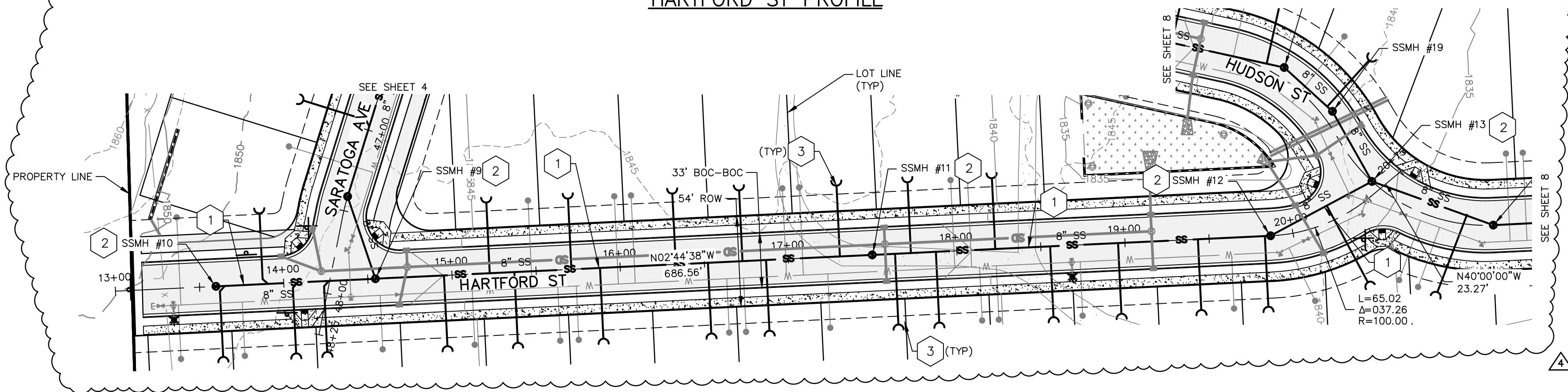
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REVISIONS				NAVD88 = ESTABLISHED FROM GPS		BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		SE#19 - 342 p 509.242.1000 f 509.242.1001		PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY					
				NAVD88 ELEV. :1843.87	25' 0' 25' 50'	SCALE IN FEET	SCALE	HORIZONTAL SCALE (22 x 34) 1"=50' VERTICAL SCALE (22 x 34) 1"=10'	 CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700	SEGMENT LIMITS:		TYPE OF IMPROVEMENT: SEWER			
5/14/25	LC	19-342	GENERAL REVISION	CBM NO. :						BY	DATES	HUDSON ST SANITARY SEWER		PROJECT NO.	PLAN NO.
10/10/24	LC	19-342	GENERAL REVISION							DRAWN:	LMC	3/3/2023	PLAN & PROFILE		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	NAVD88 DATUM			APPROVED:	JDS	01/19/2024	PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023517	HUDSO S (02) 4 36-25N-42E		
	DATE	BY	PROJECT	DESCRIPTION											

CALL BEFORE YOU DIG 1-800-424-5555



HARTFORD ST PROFILE



HARTFORD ST PLAN

TABLE

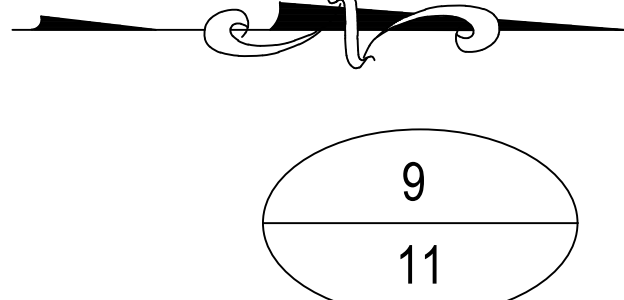
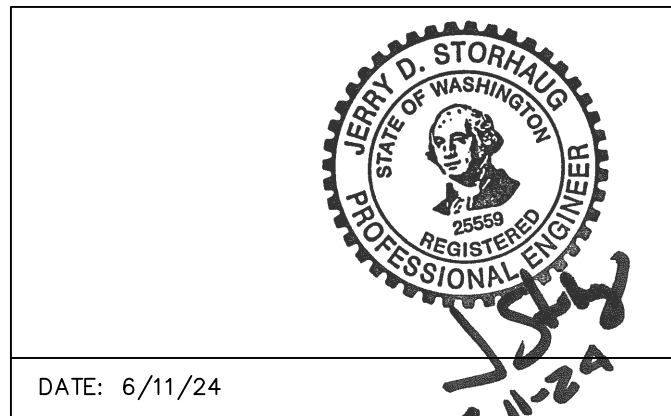
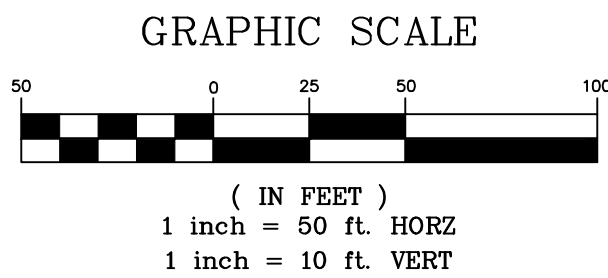
- 8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA.
- 1-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101.
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MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
SSMH #9	243796.69	2477447.16
SSMH #10	243702.05	2477451.70
SSMH #11	244091.75	2477433.02
SSMH #12	244328.16	2477421.69
SSMH #13	244388.36	2477389.43

NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.



REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		
				CBM NO. :	SCALE		
				NAVD88 DATUM	SCALE IN FEET		
5/14/25	LC	19-342	GENERAL REVISION		HORIZONTAL SCALE (22 x 34) 1"=50'		
10/10/24	LC	19-342	GENERAL REVISION		VERTICAL SCALE (22 x 34) 1"=10'		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS		BY DATES		
DATE	BY	PROJECT	DESCRIPTION		DRAWN: LMC	3/3/2023	
					APPROVED: JDS	01/19/2024	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
HARTFORD ST SANITARY SEWER
PLAN & PROFILE

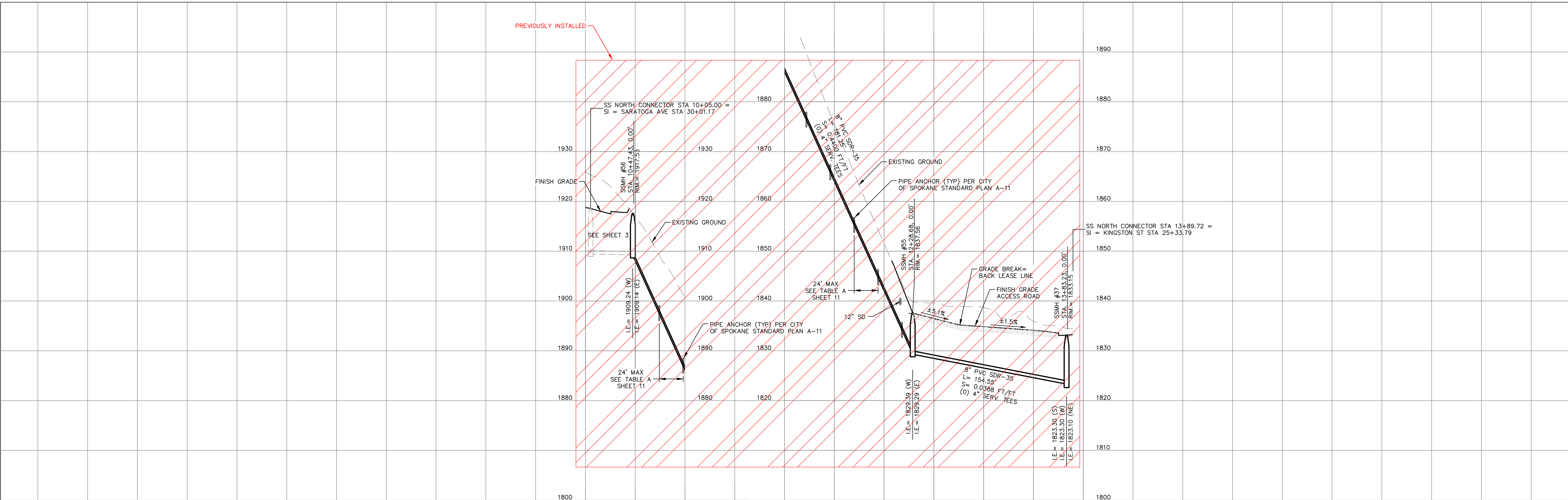
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: SEWER

PROJECT NO. PLAN NO.

2023517 HARTF S (02) 4
36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



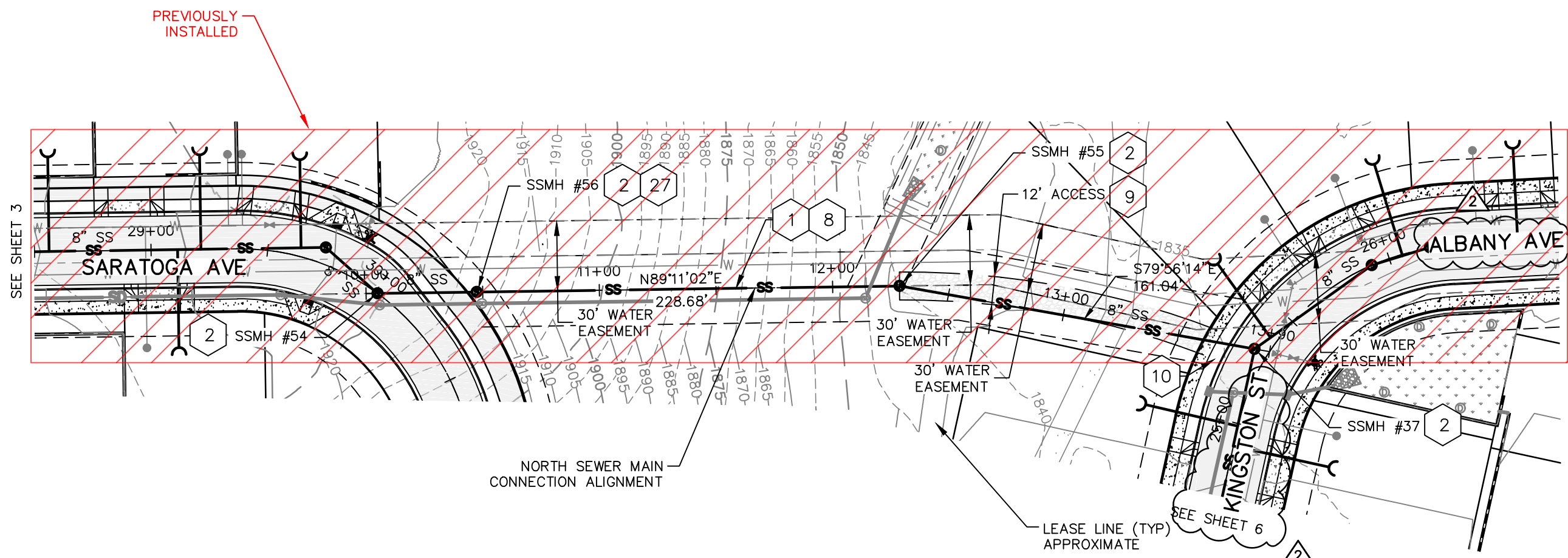
TABLE

- | | |
|----|---|
| 1 | 8" SDR35 SANITARY SEWER LINE. SEE PROFILE FOR CONSTRUCTION DATA. |
| 2 | 1'-48" MANHOLE PER CITY OF SPOKANE STD. PLAN NO. Z-101. |
| 8 | WHERE SEWER EXCEEDS 20% SLOPE, CONSTRUCT PIPE ANCHORS PER CITY OF SPOKANE STANDARD PLAN A-11 AND HORIZONTAL SPACING PER TABLE "A" ON SHEET 11. |
| 9 | 12" WIDE ACCESS ROAD TO SSMH #55. CONSTRUCT WITH 12" CRUSHED ROCK ON COMPACTED NATIVE SOIL. |
| 10 | DRIVEWAY TO ACCESS ROAD. SEE STREET PLANS. |
| 27 | INTERIOR INVERT DROP IN SSMH #56:
PIPE INLET INVERT @ MANHOLE O.D. = 1909.25
PIPE OUTLET INVERT @ MANHOLE O.D. = 1908.07
INVERT DROP THROUGH MANHOLE = 1.18'
SEE PROFILE FOR INVERTS IN MANHOLE. SEE CITY OF SPOKANE STANDARD PLANS Z-110 AND Z-113 FOR 48" MANHOLE MAXIMUM INTERIOR INVERT DROP. |

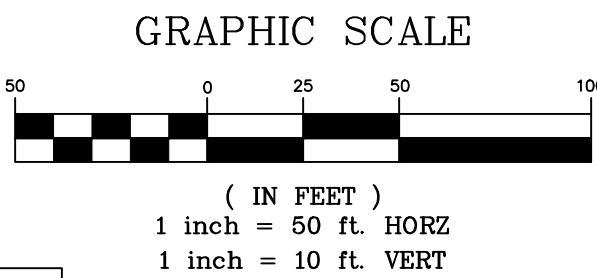
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NORTH SEWER MAIN CONNECTION PROFILE

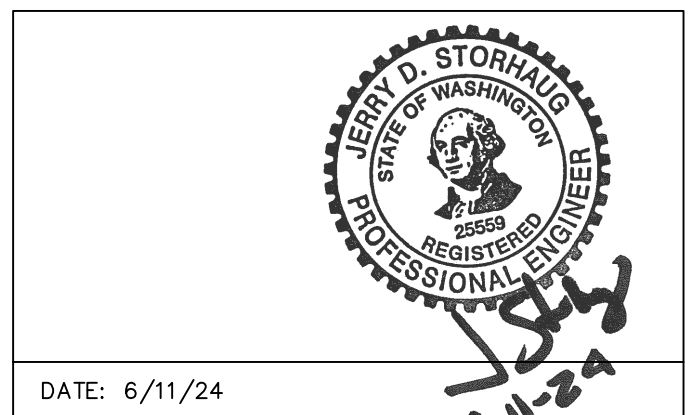
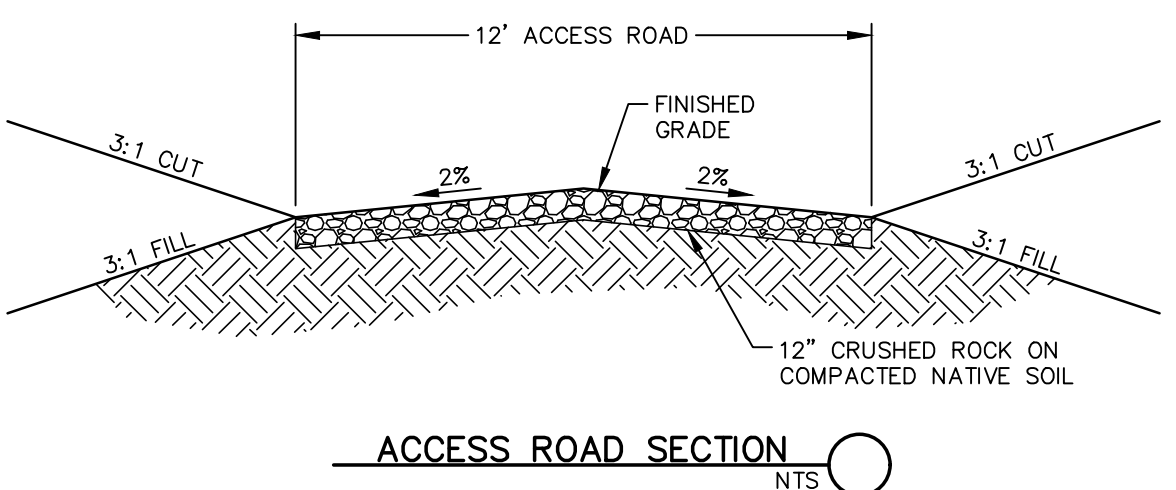


NORTH SEWER MAIN CONNECTION PLAN



MANHOLE SCHEDULE		
STRUCTURE	NORTHING	EASTING
SSMH #37	244771.19	2476946.38
SSMH #55	244798.20	2476794.21
SSMH #56	244795.62	2476612.98

NORTHINGS AND EASTINGS ARE NAD83 WASHINGTON STATE PLANE, NORTH ZONE, COORDINATES.



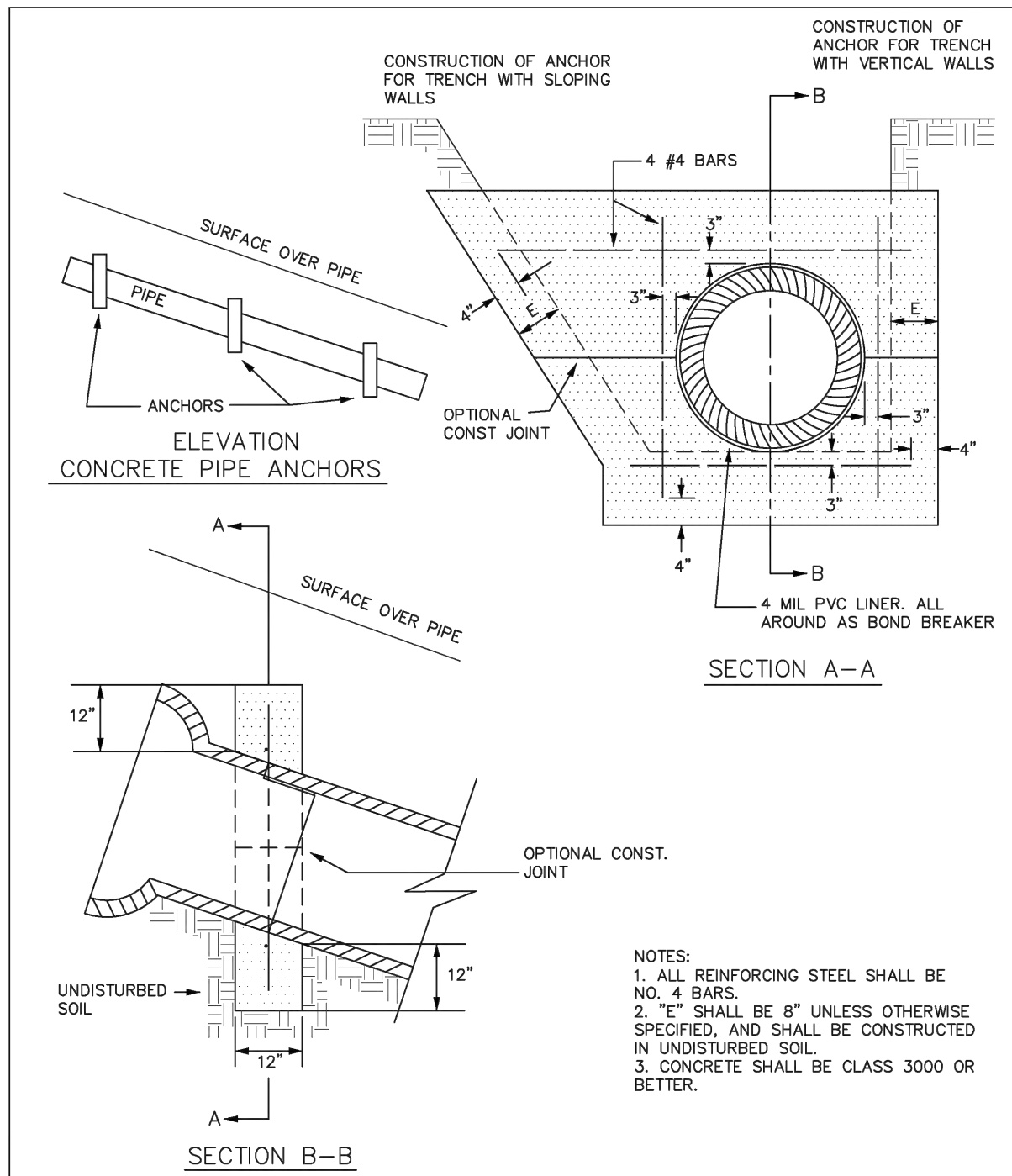
10
11

REVISIONS				NAVD88 = ESTABLISHED FROM GPS				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER				CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700				PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY			
				NAVD88 ELEV. :1843.87															
				CBM NO. :															
				NAVD88 DATUM															
5/14/25	LC	19-342	GENERAL REVISION	3															
10/10/24	LC	19-342	GENERAL REVISION	2															
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1															
DATE	BY	PROJECT	DESCRIPTION																

CALL BEFORE YOU DIG 1-800-424-5555

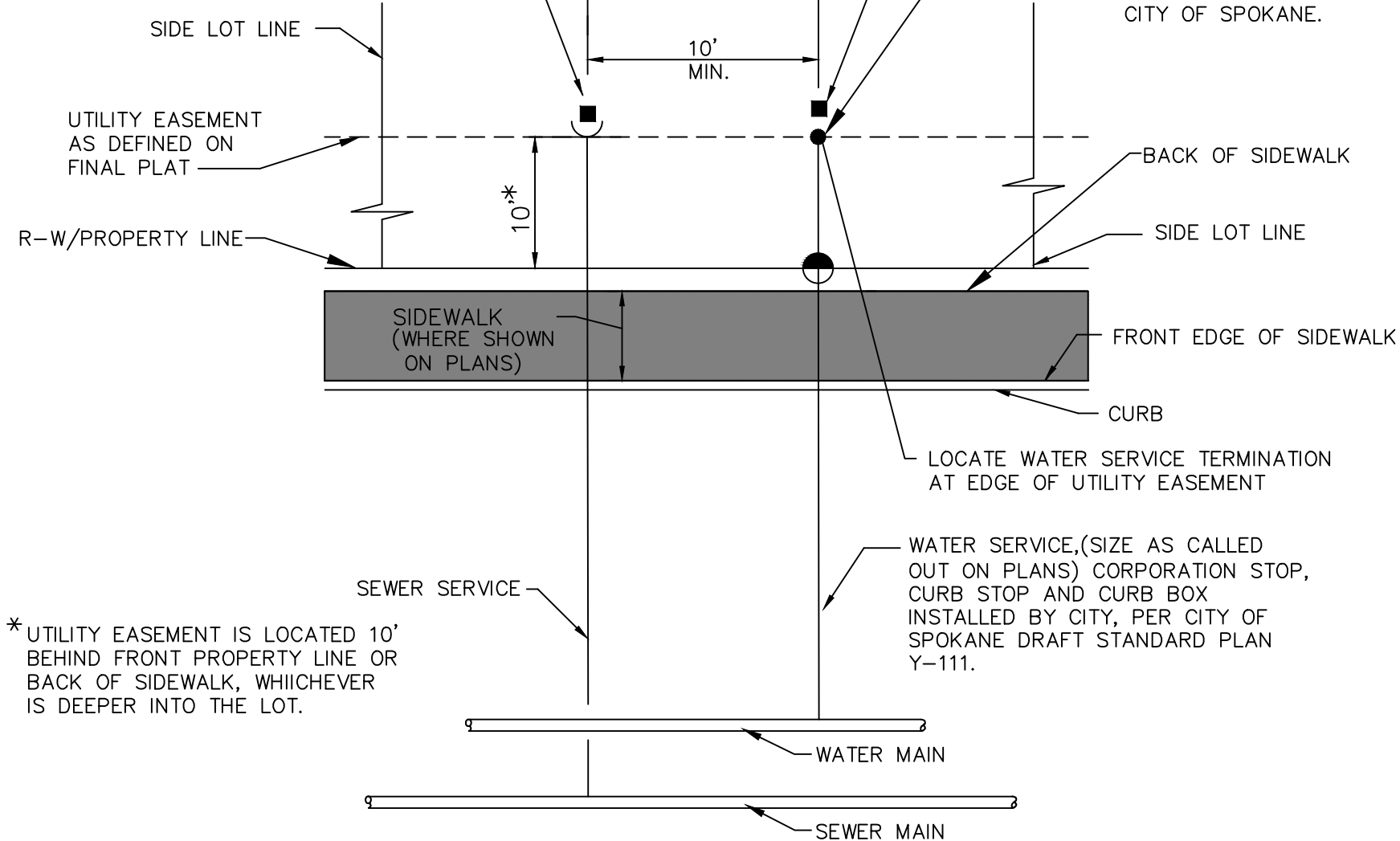
TABLE "A"		
SLOPE %		MAXIMUM ALLOWABLE SPACING (FT.) (MEASURED ON SLOPE)
OVER	TO	
20	35	36'
35	50	24'
50	100	16'

NOTE: TABLE CRITERIA BASED ON STATE OF WASHINGTON CRITERIA FOR SEWAGE WORKS DESIGN, WATER QUALITY PROGRAM, AUGUST 2008 EDITION, SECTION C1-4.4.

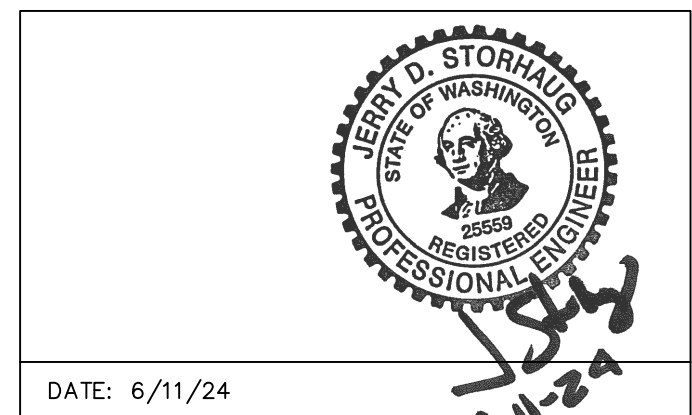
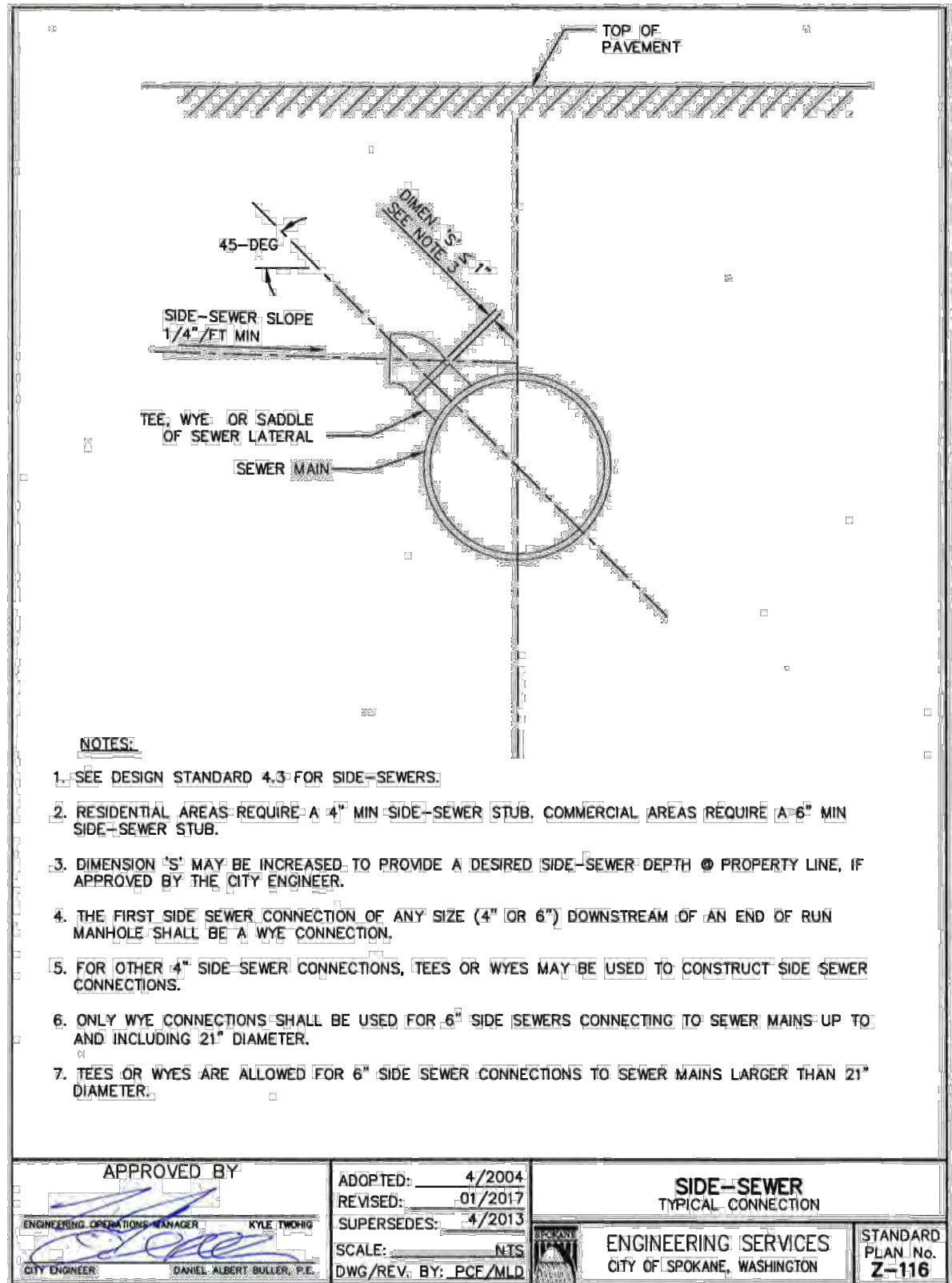
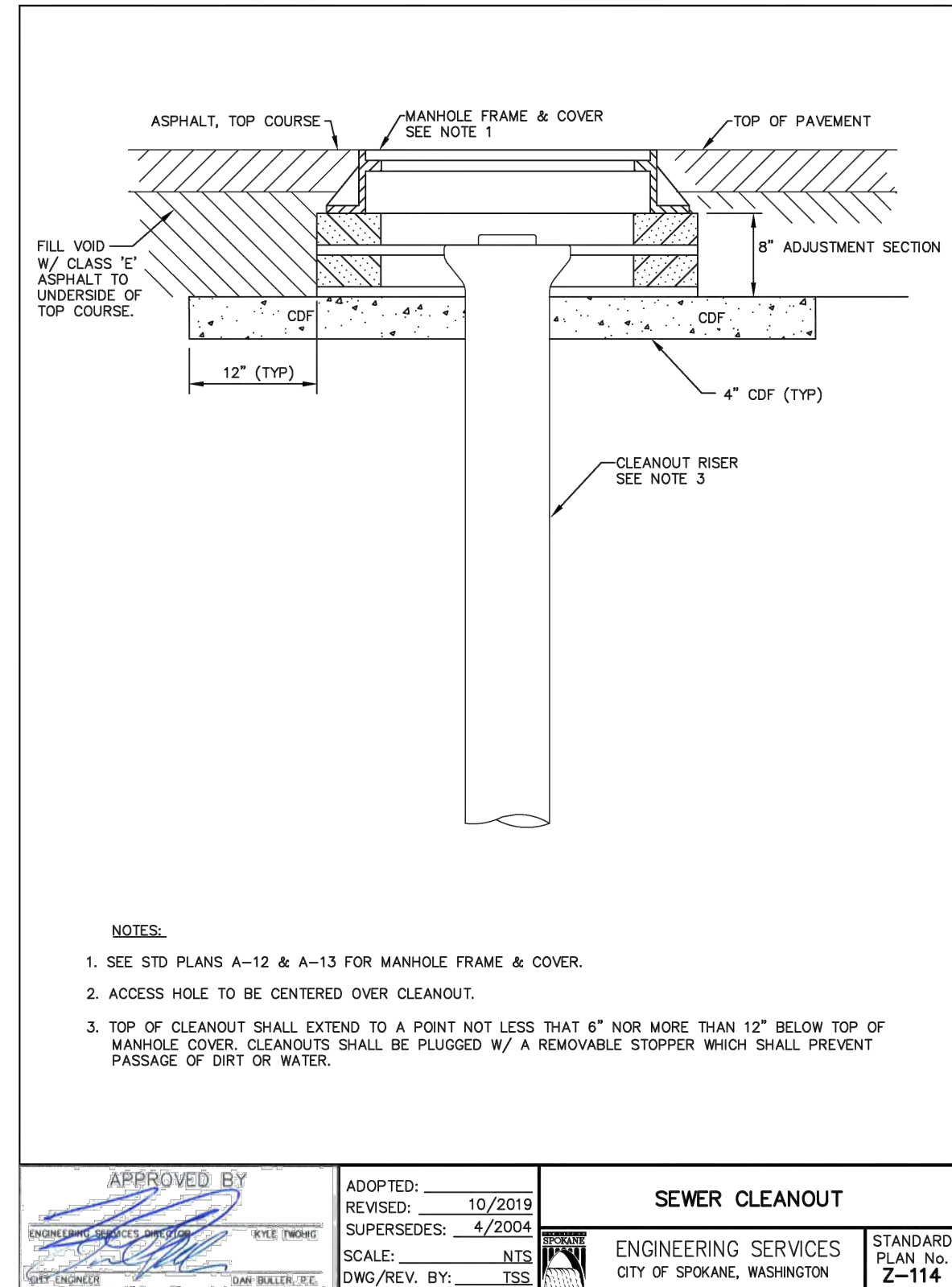
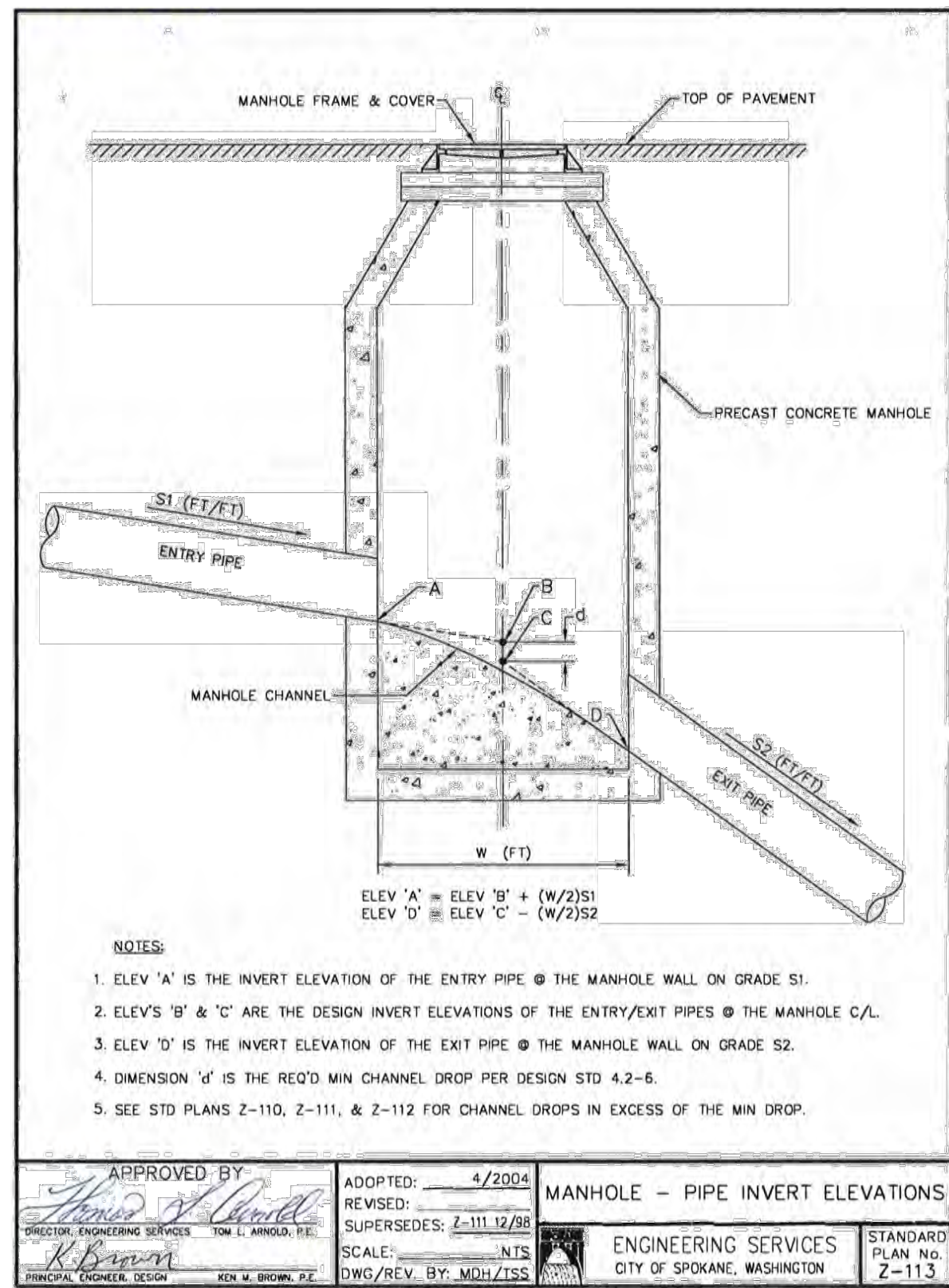
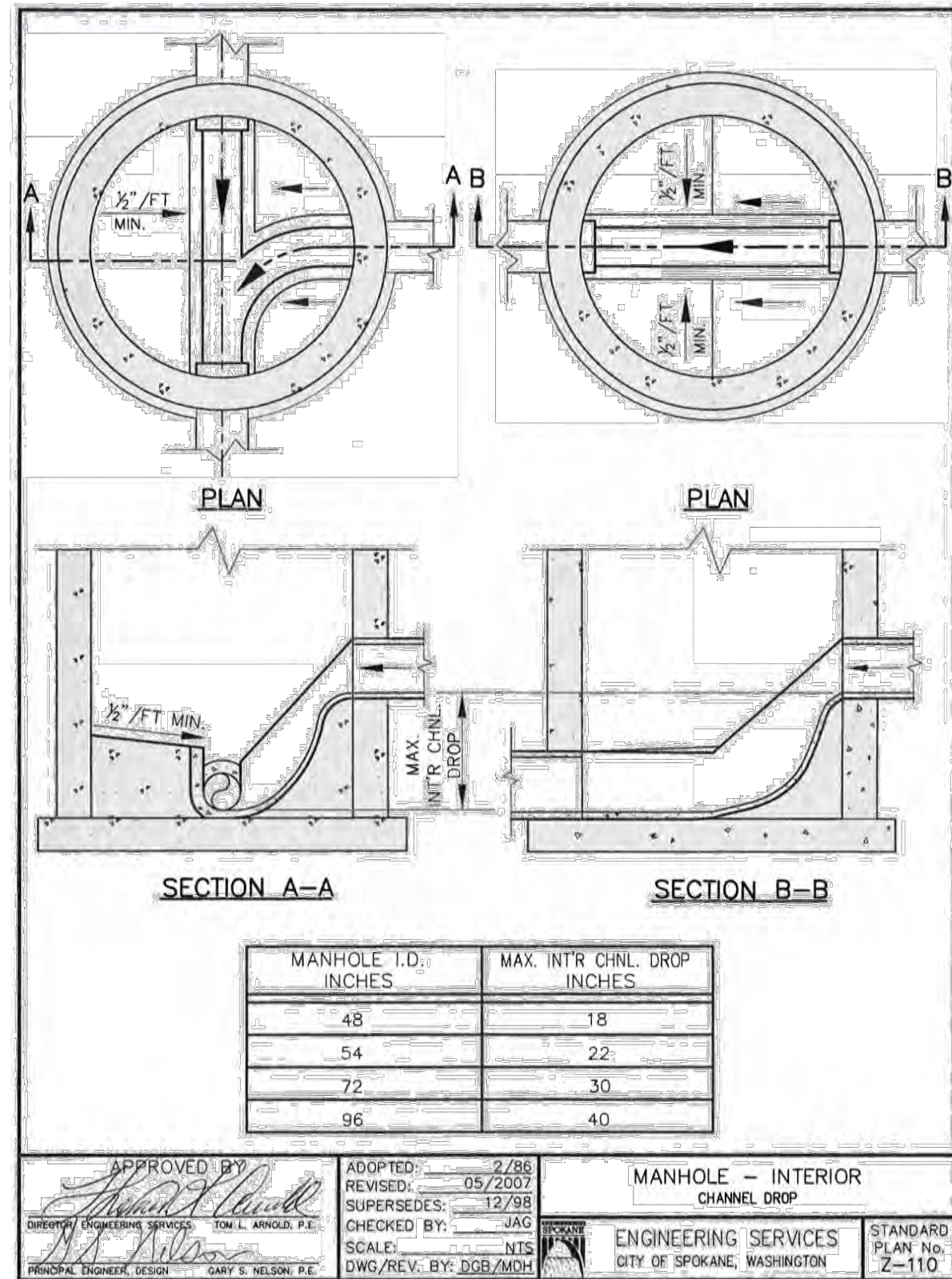


APPROVED BY	SCALE - NONE	PIPE ANCHOR
CITY ENGR. <i>[Signature]</i>	ADOPTED 5/92	
SUPV. DES. ENGR. <i>[Signature]</i>	REVISED	DEPT. OF PUBLIC WORKS
	SUPERSEDES	ENGR. DIVISION SPOKANE, WA
		STANDARD PLAN No. A-11

4"x4" WOOD MARKER POST INSTALLED PLUMB, LENGTH AS REQUIRED. MARK LENGTH WITH BLACK CRAYON AT ONE FOOT INTERVALS MEASURED FROM BOTTOM. (PAINT EXPOSED PORTION OF OPPOSITE SIDE WITH FLUORESCENT GREEN PAINT.) ATTACH 6 GAUGE WIRE WITH NO. 16 COMMON NAILS FOR FULL LENGTH OF MARKER.



TYPICAL WATER AND SEWER SERVICE LOCATION
NOT TO SCALE



11
11

REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	 SCALE IN FEET		
				CBM NO. :			
5/14/25	LC	19-342	GENERAL REVISION	3	NAVD88 DATUM	SCALE	HORIZONTAL SCALE (22 x 34) NTS VERTICAL SCALE (22 x 34) NTS
10/10/24	LC	19-342	GENERAL REVISION	2			
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1			
DATE	BY	PROJECT	DESCRIPTION				

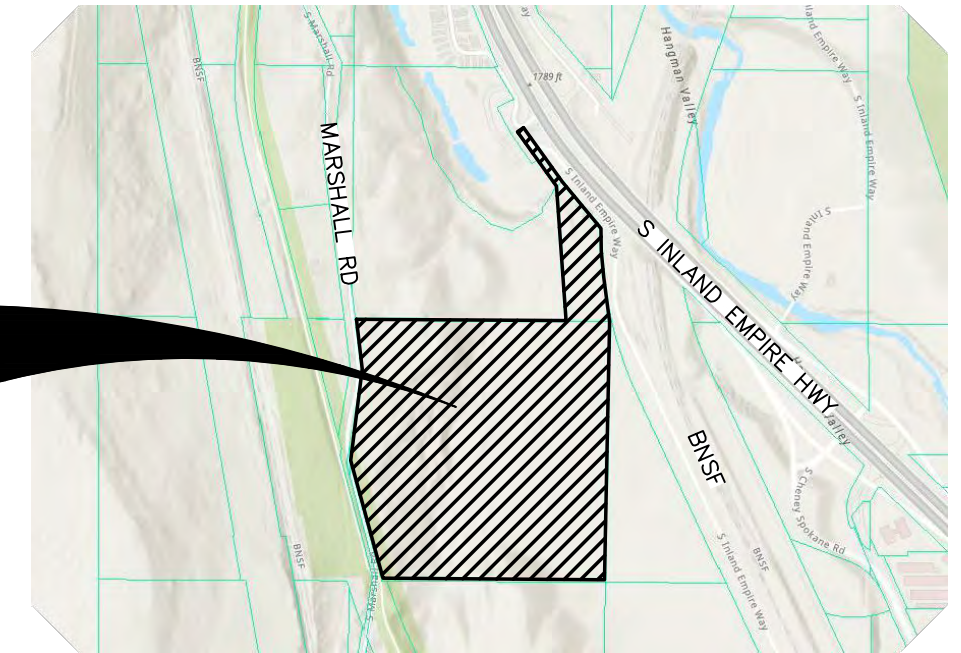
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

DATE: 6/11/24	PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY	
SEGMENT LIMITS:	SEWER DETAILS	
PROJECT LIMITS: LATAH GLEN RESIDENTIAL	TYPE OF IMPROVEMENT: SEWER	PROJECT NO. PLAN NO.
	2023517	36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555

WATER IMPROVEMENTS
LATAH GLEN RESIDENTIAL COMMUNITY
SECTION 36, TOWNSHIP 25 NORTH, RANGE 42 EAST, W.M.,
CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON

PROJECT
AREA



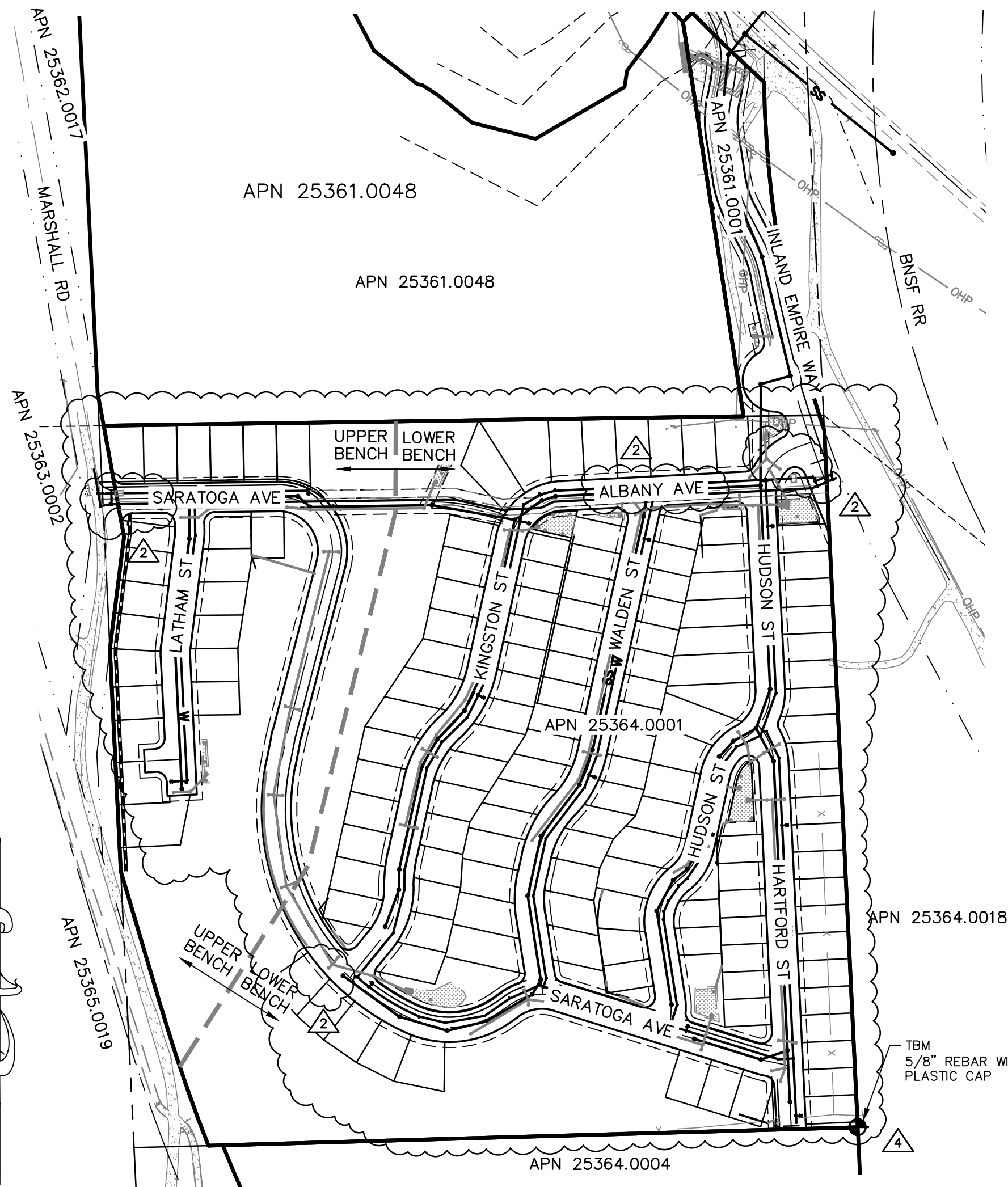
VICINITY MAP

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL SEWER AND WATER IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE, SPOKANE COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (CITY, COUNTY, OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND MADE AVAILABLE TO THE CITY OF SPOKANE PUBLIC WORKS INSPECTOR AT ALL TIMES.
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF SPOKANE COUNTY.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 10:00 P.M. WEEKDAYS, 9:00AM AND 10:00PM WEEKENDS, UNLESS OTHERWISE APPROVED BY THE COUNTY.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.
- STATIONING AND OFFSET IS BASED ON STATIONING FOR THE REFERENCED STREET ALIGNMENT.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENTS SHALL BE RELOCATED AS NEED PRIOR TO CONSTRUCTION. COORDINATE WITH APPLICABLE UTILITY COMPANY.
- RESTRAINTS SHALL BE INSTALLED ON ALL PRESSURE PIPELINES IN ACCORDANCE WITH CITY OF SPOKANE STANDARDS. REFER TO RESTRAINED JOINT TABLE ON THESE PLANS.

CITY OF SPOKANE GENERAL WATER NOTES

- UNLESS SPECIFICALLY EXCEPTED IN THE PLANS OR CONTRACT DOCUMENTS, ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, THE WASHINGTON CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (LATEST EDITION), THE CITY OF SPOKANE SUPPLEMENTAL SPECIFICATIONS AND THE CITY OF SPOKANE GENERAL SPECIAL PROVISIONS FOR PRIVATE CONTRACTS.
- THESE PLANS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH ACTUAL SITE CONDITIONS, REQUIREMENTS AND FACTORS AFFECTING THE WORK, WHERE LACK OF DETAIL OR CONFLICT EXISTS BETWEEN THESE AND OTHER PLANS. THE CONTRACTOR SHALL NOTIFY THE OWNER & ENGINEER TO RESOLVE THE ISSUE PRIOR TO PROCEEDING.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SECTION 2-03 OF THE STANDARD SPECIFICATIONS. ALL COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 2-03.3(14)C. METHOD B, AND 2-03.3(14)A, FOR ROCK EMBANKMENT.
- THESE PLANS MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- SHORING AND CRIBBING FOR UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SECTION 2.09 OF THE STANDARD SPECIFICATIONS.
- ALL PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF CONSTRUCTION SPECIFICATIONS FOR WATER AND SEWER LINES AS ADOPTED BY THE CITY OF SPOKANE.
- ALL BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF CONSTRUCTION SPECIFICATIONS FOR WATER AND SEWER LINES AS ADOPTED BY THE CITY OF SPOKANE.
- MARKING TAPE WILL BE PLACED IN THE EXCAVATION TRENCH AT MID-DEPTH LOCATION FOR ALL UNDERGROUND WATER MAIN INSTALLATIONS FOR THE PURPOSE OF ALERTING ANY FUTURE EXCAVATION IN THE SPECIFIC AREA.
- AREAS WHICH REQUIRE THE PLACEMENT OF EMBANKMENT IN ORDER TO INSTALL WATER AND SEWER, (I.E; PIPELINE INVERTS ARE ABOVE EXISTING GROUND ELEVATIONS) SHALL BE CONSTRUCTED PER THESE SPECIFICATIONS TO AN ELEVATION THREE (3) FEET ABOVE THE TOP OF PROPOSED PIPE. AT THIS POINT, TRENCHING AND BACKFILL FOR PLACEMENT OF WATER AND SEWER MAY BEGIN.
- ALL SLEEVING OF SEWER AND WATER LINES, IF NECESSARY, SHALL BE PER THE CITY OF SPOKANE STANDARD A-5.
- CONTRACTOR MUST NOTIFY THE GOVERNING FIRE DISTRICT WHEN FIRE HYDRANTS HAVE BEEN INSTALLED AND REQUEST TESTING OF FIRE HYDRANT FLOW REQUIREMENTS.
- FIRE HYDRANTS TO BE EQUIPPED WITH STORZ FITTINGS PER THE CITY OF SPOKANE SPECIFICATIONS AND STANDARDS.
- CONTRACTOR TO CONSTRUCT CUT-OFF WALLS WHERE DETERMINED BY THE CITY FIELD ENGINEER PER PLAN NO. B-19.
- ALL CONNECTIONS TO THE CITY OF SPOKANE WATER SYSTEM SHALL BE MADE BY THE CITY OF SPOKANE WATER DEPARTMENT AND PAID FOR BY DEVELOPER. THE CITY COMPLETES CONNECTION AND CHLORINATION. CONTRACTOR TO PROVIDE PARTS, EXCAVATION & BEDDING/BACKFILL/RESTORATION. PROVIDE RESTRAINED MJ CAP ON NEW PIPE (OR PLUG ON LAST NEW VALVE) AND 2" THREADED PORT WITH BALL VALVE ASSEMBLY FOR TESTING (SHALL CONSIST OF 2" DIAM. NPT 6-INCH LONG NIPPLE AND 2" NPT VALVE (CURBSTOP OR BALL TYPE) FOR TESTING/DISINFECTION). MINIMUM 48-HOUR NOTICE IS REQUIRED.



WATER SHEET INDEX

- | | | |
|---|---|--|
| 4 | 2 | SHEET NO. 1 - WATERLINE COVER |
| 4 | 2 | SHEET NO. 2 - SARATOGA AVE WATERLINE PLAN AND PROFILE STA 26+00 TO STA 38+00 |
| 4 | 2 | SHEET NO. 3 - SARATOGA AVE WATERLINE PLAN AND PROFILE STA 38+00 TO STA 47+92 |
| 4 | 2 | SHEET NO. 4 - LATHAM ST WATERLINE PLAN & PROFILE |
| 4 | 2 | SHEET NO. 5 - KINGSTON ST & ALBANY AVE WATERLINE PLAN & PROFILE |
| 4 | 2 | SHEET NO. 6 - WALDEN ST WATERLINE PLAN & PROFILE |
| 4 | 2 | SHEET NO. 7 - HUDSON ST WATERLINE PLAN & PROFILE |
| 4 | 2 | SHEET NO. 8 - HARTFORD ST WATERLINE PLAN & PROFILE |
| 4 | 2 | SHEET NO. 9 - WATER METER CONNECTIONS |
| 4 | 2 | SHEET NO. 10 - DOMESTIC WATER DETAILS |

LEGEND

EXISTING FEATURES

- | | |
|--|----------------------------|
| | ASPHALT SURFACING |
| | CURB |
| | GRAVEL |
| | SIDEWALK OR CONCRETE |
| | DRYWELL |
| | STORM MANHOLE |
| | CATCH BASIN |
| | POWER POLE/TELEPHONE POLE |
| | TELEPHONE ENCLOSURE |
| | WATER VALVE |
| | FIRE HYDRANT |
| | SANITARY SEWER MANHOLE |
| | WATER LINE |
| | SANITARY SEWER LINE |
| | STORM DRAIN LINE / CULVERT |
| | POWER LINE (OHP OR BP) |
| | TELEPHONE LINE (OHT OR BT) |
| | GAS LINE |
| | CONTOURS |
| | FENCE |
| | FIBER OPTIC LINE |

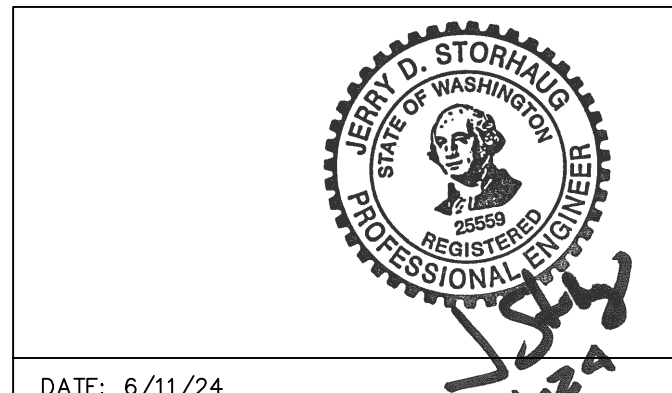
LEGEND

PROPOSED IMPROVEMENTS

- | | |
|--|---|
| | ASPHALT SURFACING |
| | CURB |
| | CONCRETE OR SIDEWALK |
| | DRYWELL |
| | STORM MANHOLE |
| | CONCRETE INLET |
| | CURB INLET |
| | POWER POLE |
| | SIGN |
| | WATER VALVE |
| | WATER METER |
| | FIRE HYDRANT |
| | WATER SHUTOFF / WATER VAULT |
| | SANITARY SEWER MANHOLE |
| | INACTIVE/COMPLETED PHASE |
| | CLEANOUT (CO) |
| | GAS METER |
| | WATER LINE (AS SIZED) |
| | SLEEVE FOR WATER / SEWER CROSSING |
| | SANITARY SEWER LINE |
| | STORM DRAIN LINE / CULVERT |
| | CONTOURS |
| | STORM WATER SWALE / POND |
| | DIRECTION OF SURFACE STORM WATER DRAINAGE |
| | TOP OF CURB ELEVATION, FLOWLINE ELEVATION |
| | CURB INLET, INLET ELEVATION AT FLOWLINE |
| | FINISHED GRADE ELEVATION |



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700



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10

REVISIONS				NAVD88 = ESTABLISHED FROM GPS				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER				BY DATES			
					NAVD88 ELEV. :1843.87							DRAWN: LMC	3/3/2023		
					CBM NO. :							APPROVED: JDS	01/19/2024		
					NAVD88 DATUM										
5/14/25	LC	19-342	GENERAL REVISION	3											
10/10/24	LC	19-342	GENERAL REVISION	2											
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1											
DATE	BY	PROJECT	DESCRIPTION												

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS: WATERLINE COVER

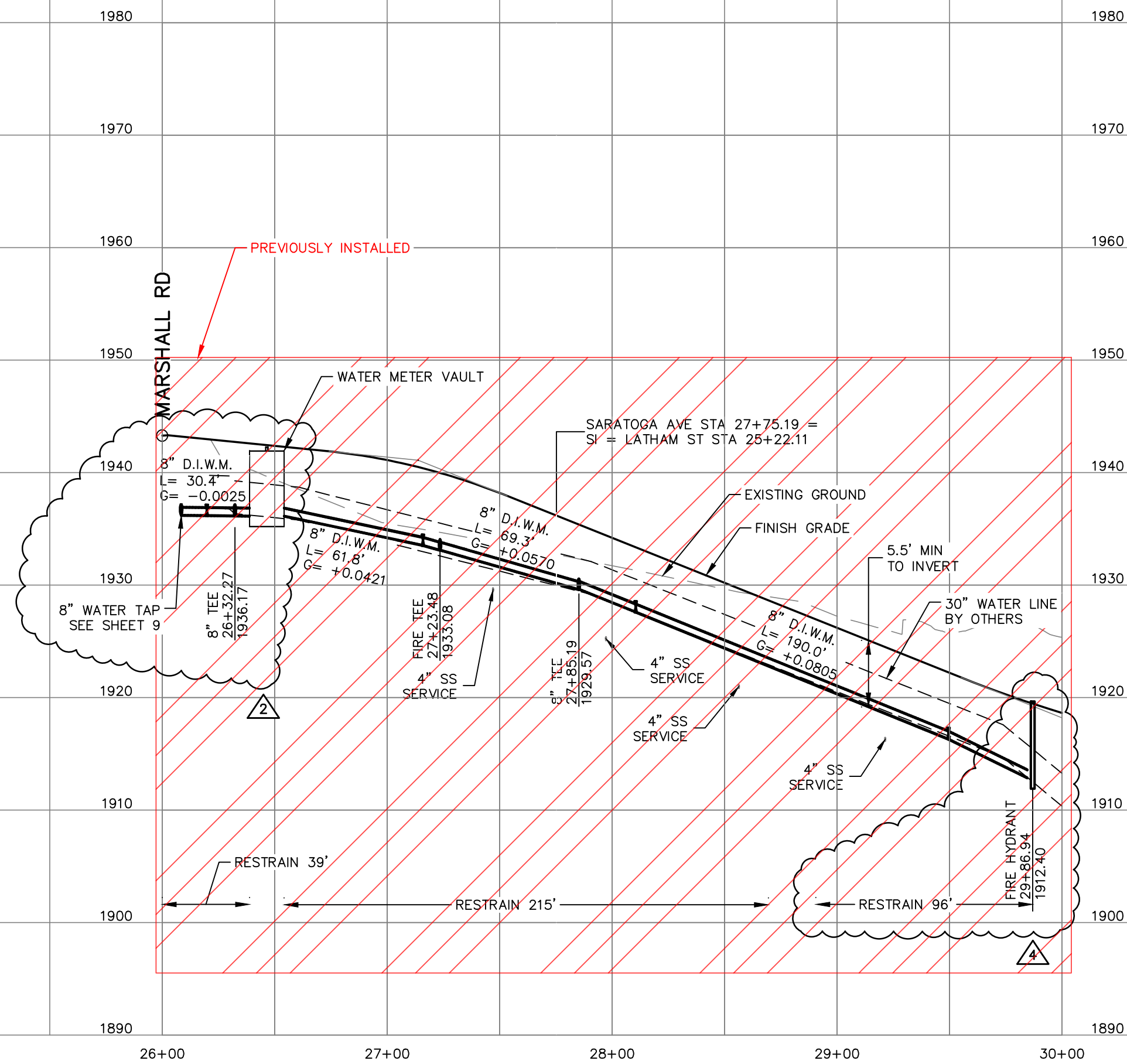
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: WATER

PROJECT NO. PLAN NO.

2023518 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



SARATOGA AVE WATERLINE PROFILE

FITTING TYPE / SIZE	PIPE SIZE			
	12" & 10"	8"	6"	4"
	Length (feet) of Restrained Pipe Required in Each Direction:			
90° bends, tee branches, valves and dead-ends	450'	59'	74'	50'
11-1/4° bends	10'	3'	6'	4'
22-1/2° bends	20'	6'	10'	8'
45° bends	40'	11'	20'	14'

NOTE:
For static system pressures greater than 85 psi, adjust as follows:
• Add 1 foot of restraint length for each psi over 85 psi for all pipe diameters in the table.
• For locations that are served by a Pressure Reducing Valve (PRV) restrained lengths shall reflect PRV failure.
Restrained lengths shown are required each side of fitting
For pipe diameters greater than 12" restraint shall be calculated
For static pressures greater than 120 psi restraint shall be calculated

THIS RESTRAINED JOINT TABLE REFLECTS CALCULATED LENGTHS FOR THE DOMESTIC WATER SYSTEM DESIGNED FOR LATAH GLEN RESIDENTIAL COMMUNITY ONLY.

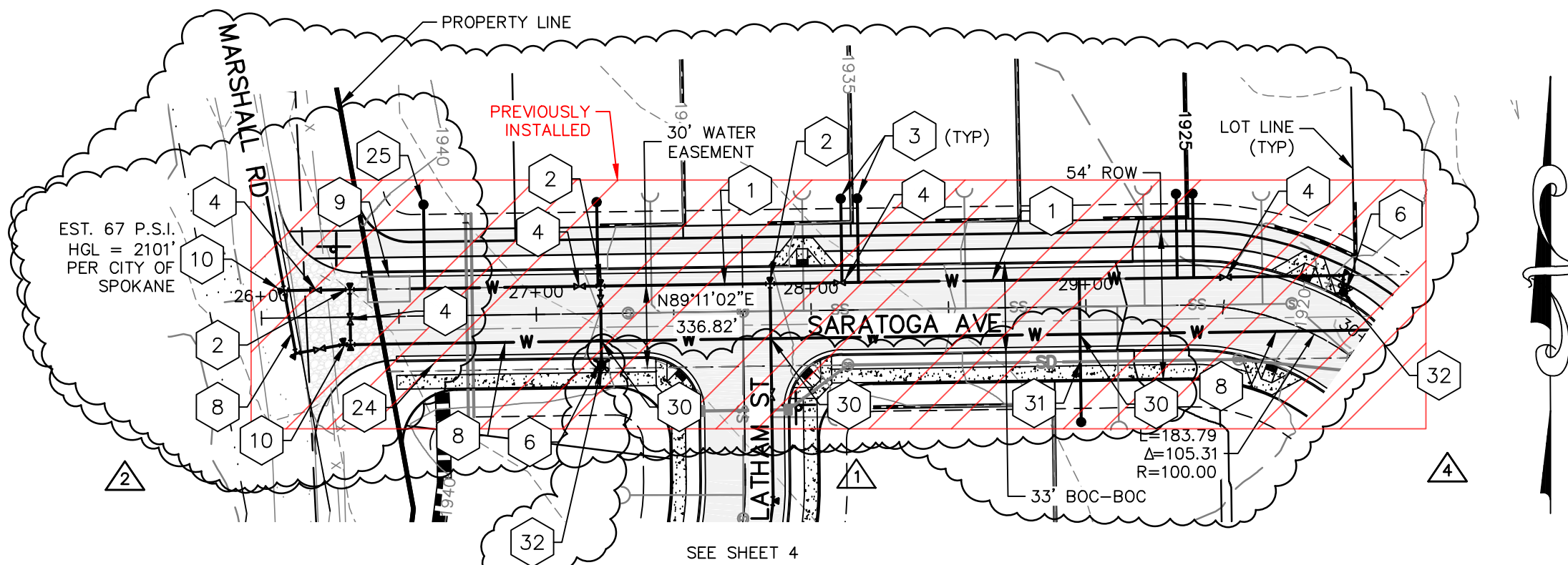
PROJECT RESTRAINED JOINT DATA:

SOIL TYPE = ML, GRANULAR FILL
PIPE MATERIAL = DUCTILE IRON
SAFETY FACTOR = 2.5
TRENCH TYPE = 5
DEPTH OF BURY = 5'
DESIGN PRESSURE = 175 P.S.I.
NOMINAL SIZE = 8" DIAMETER

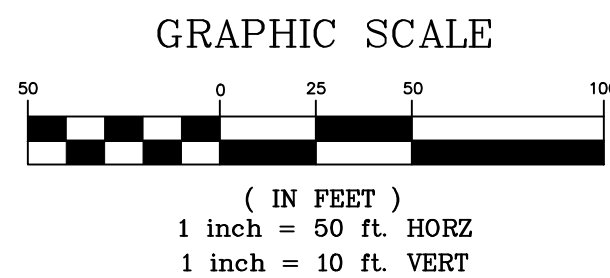
* THE LENGTHS ARE BASED ON DESIGN PRESSURE RESULTS FROM PROJECT RESTRAINED JOINT DATA ENTERED INTO THE CALCULATOR AT WEBSITE <https://rlc.ebaa.com/calculator.php>.

RESTRAINED JOINT TABLE

CALCULATED PRESSURE (UPPER BENCH) = 67 PSI - DESIGN PRESSURE = 175 PSI
CALCULATED PRESSURE (LOWER BENCH) = 118 PSI - DESIGN PRESSURE = 175 PSI
SEE COVER SHEET FOR BENCH DELINEATION



SARATOGA AVE WATERLINE PLAN

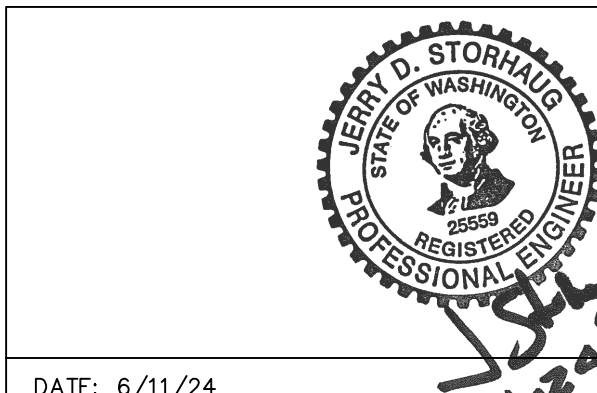


WATER NOTES

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- ALL PIPE AND APPURTENANCES SHALL BE DUCTILE IRON.
- ALL VALVES AND TEES SHALL HAVE MECHANICAL JOINT FITTINGS.
- WATER SERVICES SHALL BE 1" DIA. TYPE "K" COPPER OR 2" HDPE CTS AND SHALL BE EXTENDED INSIDE THE PROPERTY LINE PER CITY OF SPOKANE STANDARD PLAN Y-111, SEE SHEET 10.
- INDIVIDUAL PRESSURE REDUCING VALVES ARE REQUIRED ON ALL SERVICES THAT EXCEED 80 PSI STATIC.
- ALL HYDRANTS SHALL BE EQUIPPED WITH STORZ FITTINGS PER CITY OF SPOKANE STANDARDS.
- ALL CONNECTIONS TO LIVE MAINS SHALL BE MADE BY CITY FORCES.
- NO UTILITIES ARE TO BE INSTALLED WITHIN 5' PARALLEL TO WATER MAINS AND SERVICE LINES. SEPARATION TO SEWERS MUST BE MAINTAINED PER CITY OF SPOKANE PLANS A-4 AND A-5 CROSSING WATER/SEWER LINES OR THEIR CASING SHALL HAVE 6" MINIMUM VERTICAL SEPARATION.
- WATER LINES MAY BE INSTALLED AT A MAXIMUM OF 75% OF MANUFACTURERS MAXIMUM DEFLECTION.
- WATER LOWERINGS TO BE CONSTRUCTED PER CITY OF SPOKANE STANDARD PLAN A-5. SEE DETAILS SHEET 10.

TABLE

1	8" DUCTILE IRON WATERLINE.
2	8" TEE ALL MJ WITH RESTRAINT.
3	1" DOMESTIC WATER SERVICE PER CITY OF SPOKANE STD. PLAN Y-111, SEE SHEET 10.
4	8" GATE VALVE.
5	SLEEVE WATERLINE CROSSING PER CITY OF SPOKANE STD. PLAN A-5. SEE SHEET 10.
6	FIRE HYDRANT ASSEMBLY PER CITY OF SPOKANE STD. PLAN Y-101. SEE SHEET 10.
7	8" 90° BEND.
8	30" TRANSMISSION WATER MAIN TO BE INSTALLED BY THE CITY OF SPOKANE.
9	8'X14" (INTERIOR) TRAFFIC RATED WATER METER VAULT - PIPE STRAIGHT THROUGH
10	8" WATER TAP TO BE INSTALLED BY THE CITY OF SPOKANE. TAPS TO BE LOCATED ON EITHER SIDE OF 30 VALVE. SEE SHEET 9 FOR DETAIL.
24	(2) 6" PVC CONDUITS FOR IRRIGATION SLEEVES.
25	2" IRRIGATION SERVICE WITH BACKFLOW PREVENTER. SEE LANDSCAPE PLANS FOR MORE DETAIL.
30	WATER LINE CROSSING, PRIVATE WATERLINE SHALL BE BELOW PUBLIC WATER, PER CITY OF SPOKANE STD. PLAN A-5, SEE SHEET 10.
31	SLEEVE WATER SERVICE UNDER THE STORM LINE, MUST BE WRAPPED WITH SPLIT FOAM PIPE INSULATION. THE END OF THE SLEEVES MUST BE SEALED WITH WATERPROOF FOAM. WATER/SEWER CROSSINGS MUST MEET CITY OF SPOKANE STANDARD PLAN A-5.
32	EXTEND PREVIOUSLY INSTALLED FIRE HYDRANT TO NEW LOCATIONS



DATE: 6/11/24

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:

SARATOGA AVE WATERLINE

PLAN & PROFILE STA 26+00 TO 38+00

PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: WATER

PROJECT NO. PLAN NO.

2023518 SARAT A (03) 4

CALL BEFORE YOU DIG 1-800-424-5555

REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV. :1843.87	
				CBM NO. :	
				NAVD88 DATUM	
5/14/25	LC	19-342	GENERAL REVISION	3	
10/10/24	LC	19-342	GENERAL REVISION	2	
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	
DATE	BY	PROJECT	DESCRIPTION		

SCALE IN FEET

SCALE

BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER

HORIZONTAL SCALE (22 x 34) 1"=50'
VERTICAL SCALE (22 x 34) 1"=10'

BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024

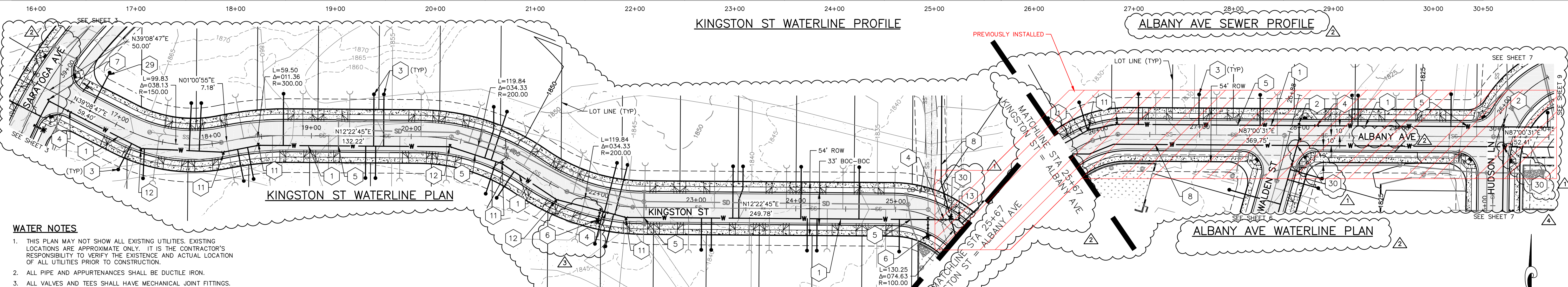
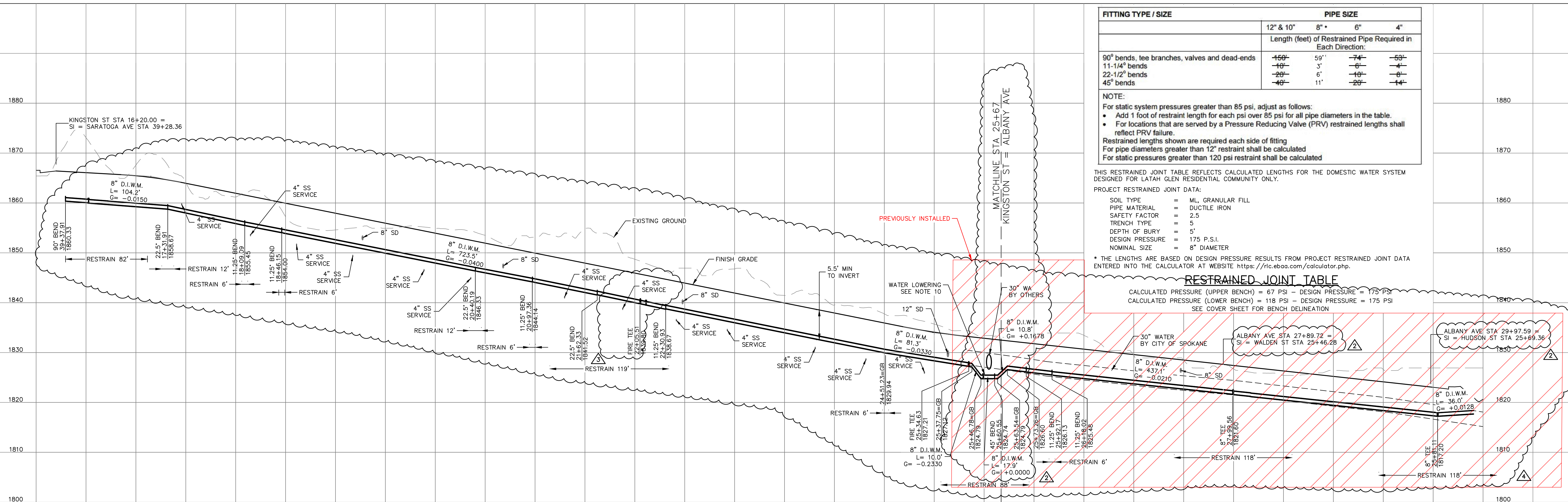


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

SE#19-342

510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001





WATER NOTES

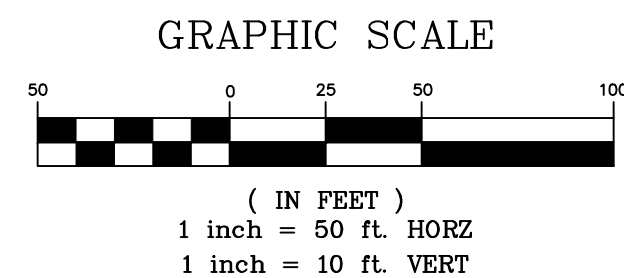
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9. WATER LINES MAY BE INSTALLED AT A MAXIMUM OF 75% OF MANUFACTURERS MAXIMUM DEFLECTION.
10. WATER LOWERINGS TO BE CONSTRUCTED PER CITY OF SPOKANE STANDARD PLAN A-5. SEE DETAILS SHEET 10.

TABLE

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6	FIRE HYDRANT ASSEMBLY PER CITY OF SPOKANE STD. PLAN Y-101, SEE SHEET 10.
7	8" 90° BEND.

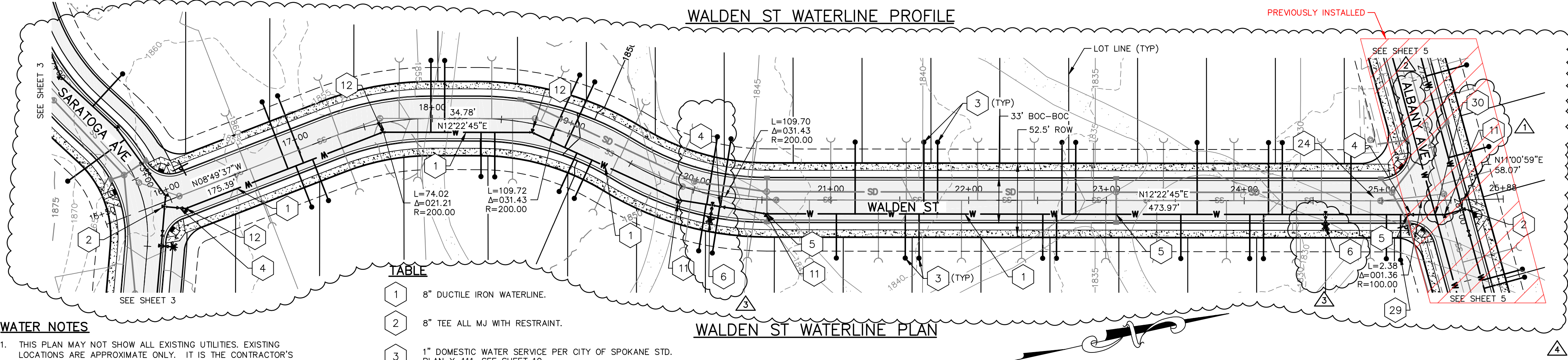
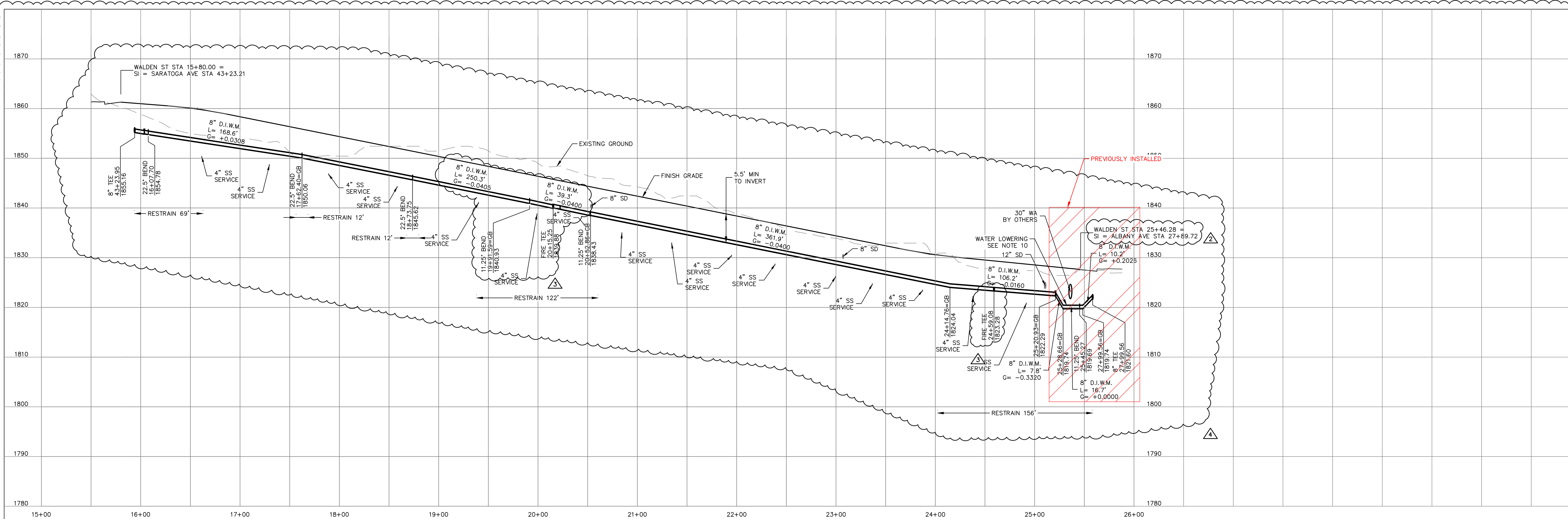
TABLE (CONTINUED)

8	30" WATER MAIN TO BE INSTALLED BY THE CITY OF SPOKANE.
11	8" 11.25° BEND.
12	8" 22.50° BEND.
13	8" 45° BEND.
29	1" IRRIGATION SERVICE WITH BACKFLOW PREVENTER. SEE LANDSCAPE PLANS FOR MORE DETAIL.
30	WATER LINE CROSSING, PRIVATE WATERLINE SHALL BE BELOW PUBLIC WATER, PER CITY OF SPOKANE STD. PLAN A-5, SEE SHEET 10.



REVISIONS				NAVD88 = ESTABLISHED FROM GPS				BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER				BY DATES				CITY OF SPOKANE, WASHINGTON				PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY				TYPE OF IMPROVEMENT: WATER			
				NAVD88 ELEV. :1843.87								DRAWN: LMC 3/3/2023				DEPARTMENT OF ENGINEERING SERVICES 808				(KINGSTON ST & ALBANY AVE WATERLINE)				PROJECT NO. PLAN NO.			
5/14/25 LC 19-342 GENERAL REVISION				CBM NO. :				SCALE				APPROVED: JDS 01/19/2024				WEST SPOKANE FALLS BLVD. SPOKANE,				PLAN & PROFILE				2023518			
10/10/24 LC 19-342 GENERAL REVISION				NAVD88 DATUM				HORIZONTAL SCALE (22 x 34) 1"=50'								WASHINGTON 99201-3343 (509) 625-6700				PROJECT LIMITS: LATAH GLEN RESIDENTIAL				KINGS S (02) 4			
4/10/24 LC 19-342 ASI #1 CONTRACTOR QUESTIONS				SCALE IN FEET				VERTICAL SCALE (22 x 34) 1"=10'																36-25N-42E			
DATE BY PROJECT DESCRIPTION																											

CALL BEFORE YOU DIG 1-800-424-5555

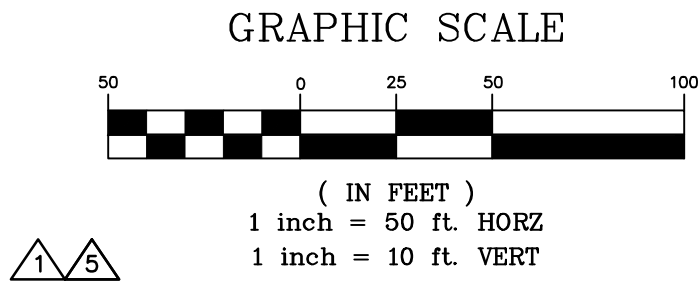


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24	(2) 6" PVC CONDUITS FOR IRRIGATION SLEEVES.
29	1" IRRIGATION SERVICE WITH BACKFLOW PREVENTER. SEE LANDSCAPE PLANS FOR MORE DETAIL.
30	WATER LINE CROSSING.



REVISIONS				NAVD88 = ESTABLISHED FROM GPS	
				NAVD88 ELEV. :1843.87	
				CBM NO. :	
				NAVD88 DATUM	
5/14/25	LC	19-342	GENERAL REVISION	3	
10/10/24	LC	19-342	GENERAL REVISION	2	
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	
DATE	BY	PROJECT	DESCRIPTION		

SCALE	HORIZONTAL SCALE (22 x 34)	1"=50'
	VERTICAL SCALE (22 x 34)	1"=10'

BY	DATES
DRAWN: LMC	3/3/2023
APPROVED: JDS	01/19/2024



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

FITTING TYPE / SIZE	PIPE SIZE			
	12" & 10"	8"	6"	4"
	Length (feet) of Restrained Pipe Required in Each Direction:			
90° bends, tee branches, valves and dead-ends	150'	59'	74'	59'
11-1/4° bends	10'	3'	0'	4'
22-1/2° bends	20'	6'	10'	0'
45° bends	40'	11'	20'	14'

NOTE:
For static system pressures greater than 85 psi, adjust as follows:
• Add 1 foot of restraint length for each psi over 85 psi for all pipe diameters in the table.
• For locations that are served by a Pressure Reducing Valve (PRV) restrained lengths shall reflect PRV failure.
Restrained lengths shown are required each side of fitting
For pipe diameters greater than 12" restraint shall be calculated
For static pressures greater than 120 psi restraint shall be calculated

THIS RESTRAINED JOINT TABLE REFLECTS CALCULATED LENGTHS FOR THE DOMESTIC WATER SYSTEM DESIGNED FOR LATAH GLEN RESIDENTIAL COMMUNITY ONLY.

PROJECT RESTRAINED JOINT DATA:

SOIL TYPE	=	ML, GRANULAR FILL
PIPE MATERIAL	=	DUCTILE IRON
SAFETY FACTOR	=	2.5
TRENCH TYPE	=	5
DEPTH OF BURY	=	5'
DESIGN PRESSURE	=	175 P.S.I.
NOMINAL SIZE	=	8" DIAMETER

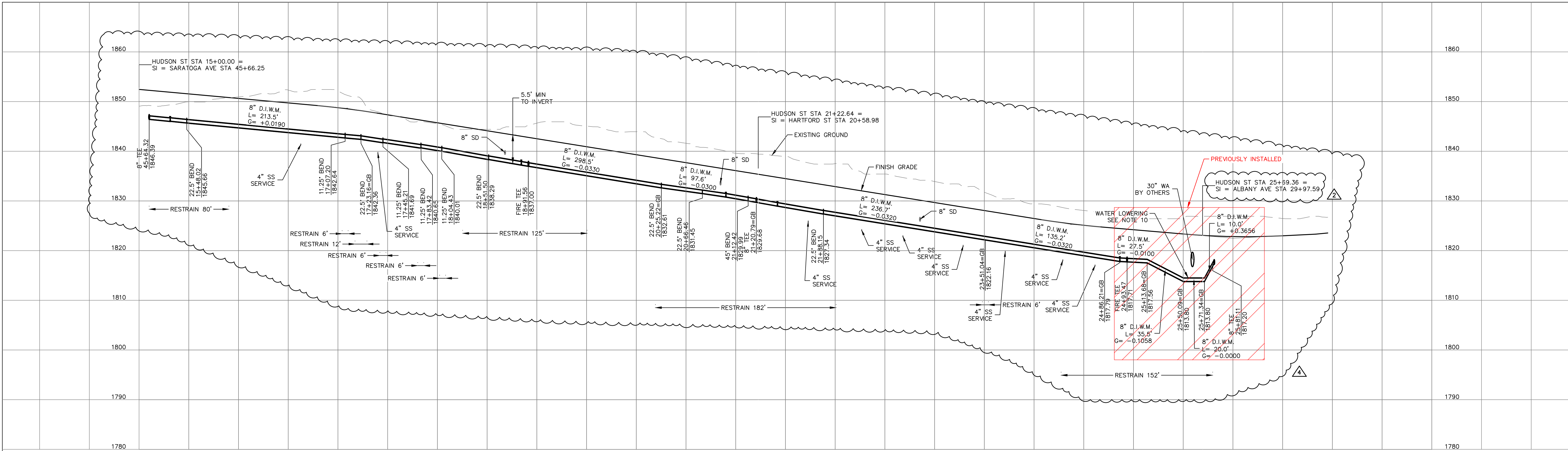
* THE LENGTHS ARE BASED ON DESIGN PRESSURE RESULTS FROM PROJECT RESTRAINED JOINT DATA ENTERED INTO THE CALCULATOR AT WEBSITE <https://ric.ebas.com/calculator.php>.

RESTRAINED JOINT TABLE

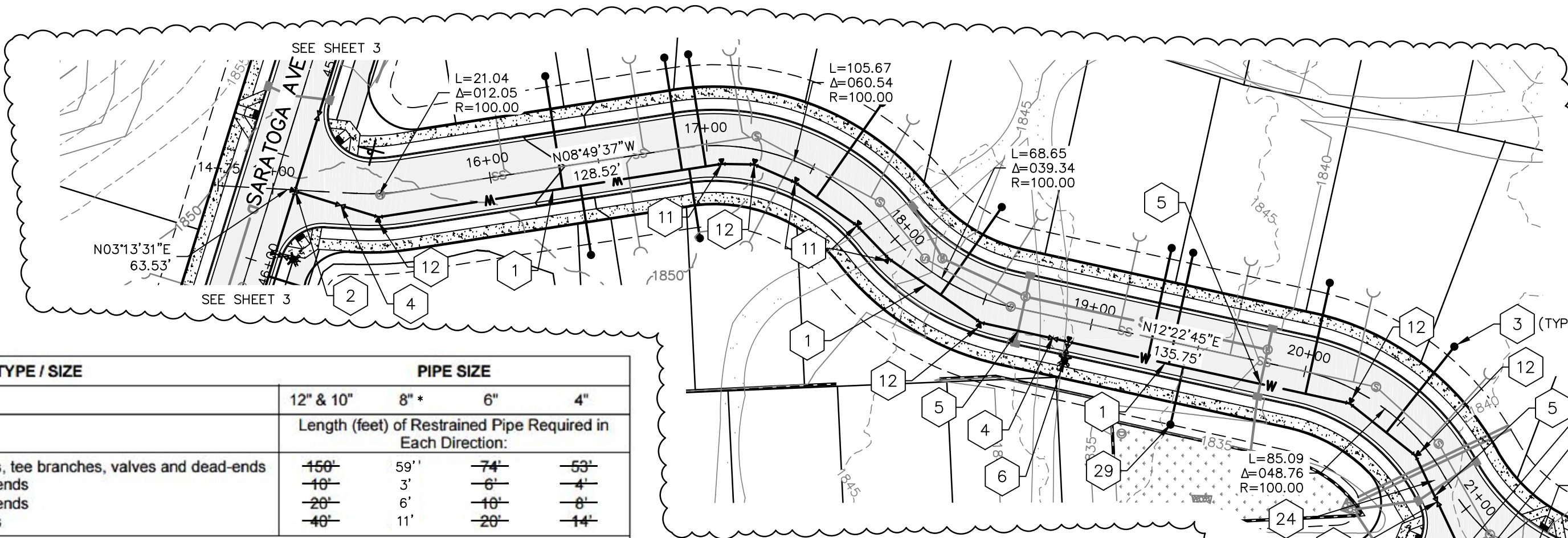
CALCULATED PRESSURE (UPPER BENCH) = 67 PSI - DESIGN PRESSURE = 175 PSI
CALCULATED PRESSURE (LOWER BENCH) = 118 PSI - DESIGN PRESSURE = 175 PSI
SEE COVER SHEET FOR BENCH DELINEATION

		6	
		10	
DATE: 6/11/24			
PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY			
SEGMENT LIMITS:		TYPE OF IMPROVEMENT: WATER	
WALDEN ST WATERLINE		PLAN NO.	
PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023518	
		WALDE S (02) 4	
		36-25N-42E	

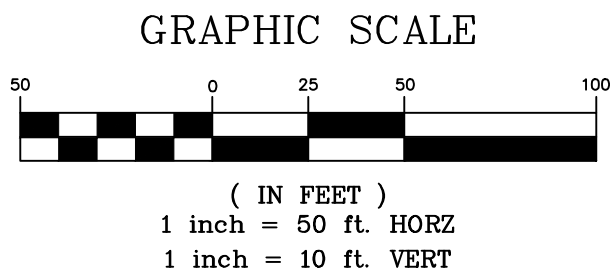
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HUDSON ST WATERLINE PROFILE



HUDSON ST WATERLINE PLAN



TABLE

1	8" DUCTILE IRON WATERLINE.
2	8" TEE ALL MJ WITH RESTRAINT.
3	1" DOMESTIC WATER SERVICE PER CITY OF SPOKANE STD. PLAN Y-111. SEE SHEET 10.
4	8" GATE VALVE.
5	SLEEVE WATERLINE CROSSING PER CITY OF SPOKANE STD. PLAN A-5. SEE SHEET 10.
6	FIRE HYDRANT ASSEMBLY PER CITY OF SPOKANE STD. PLAN Y-101. SEE SHEET 10.

TABLE (CONTINUED)

11	8" 11.25' BEND.
12	8" 22.50' BEND.
13	8" 45' BEND.
24	(2) 6" PVC CONDUITS TO ACT AS SLEEVES FOR FUTURE IRRIGATION.
25	2" IRRIGATION SERVICE WITH BACKFLOW PREVENTOR. SEE LANDSCAPE PLANS FOR MORE DETAIL.
29	1" IRRIGATION SERVICE WITH BACKFLOW PREVENTOR. SEE LANDSCAPE PLANS FOR MORE DETAIL.
30	WATER LINE CROSSING.

WATER NOTES

1. THIS PLAN MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING LOCATIONS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ALL PIPE AND APPURTENANCES SHALL BE DUCTILE IRON.
3. ALL VALVES AND TEES SHALL HAVE MECHANICAL JOINT FITTINGS.
4. WATER SERVICES SHALL BE 1" DIA. TYPE "K" COPPER OR 2" HDPE CTS AND SHALL BE EXTENDED INSIDE THE PROPERTY LINE PER DRAFT CITY OF SPOKANE STANDARD PLAN Y-111, SEE SHEET 10.
5. INDIVIDUAL PRESSURE REDUCING VALVES ARE REQUIRED ON ALL SERVICES THAT EXCEED 80 PSI STATIC.
6. ALL HYDRANTS SHALL BE EQUIPPED WITH STORZ FITTINGS PER CITY OF SPOKANE STANDARDS.
7. ALL CONNECTIONS TO LIVE MAINS SHALL BE MADE BY CITY FORCES.
8. NO UTILITIES ARE TO BE INSTALLED WITHIN 5' PARALLEL TO WATER MAINS AND SERVICE LINES. SEPARATION TO SEWERS MUST BE MAINTAINED PER CITY OF SPOKANE PLANS A-4 AND A-5 CROSSING WATER/SEWER LINES OR THEIR CASING SHALL HAVE 6" MINIMUM VERTICAL SEPARATION.
9. WATER LINES MAY BE INSTALLED AT A MAXIMUM OF 75% OF MANUFACTURERS MAXIMUM DEFLECTION.
10. WATER LOWERINGS TO BE CONSTRUCTED PER CITY OF SPOKANE STANDARD PLAN A-5. SEE DETAILS SHEET 10.

FITTING TYPE / SIZE	PIPE SIZE			
	12" & 10"	8"	6"	4"
	Length (feet) of Restrained Pipe Required in Each Direction:			
90° bends, tee branches, valves and dead-ends	150'	59'	74'	53'
11-1/4" bends	10'	3'	6'	4'
22-1/2" bends	20'	6'	10'	6'
45° bends	40'	11'	20'	14'

NOTE:
For static system pressures greater than 85 psi, adjust as follows:
• Add 1 foot of restraint length for each psi over 85 psi for all pipe diameters in the table.
• For locations that are served by a Pressure Reducing Valve (PRV) restrained lengths shall reflect PRV failure.
Restrained lengths shown are required each side of fitting
For pipe diameters greater than 12" restraint shall be calculated
For static pressures greater than 120 psi restraint shall be calculated

THIS RESTRAINED JOINT TABLE REFLECTS CALCULATED LENGTHS FOR THE DOMESTIC WATER SYSTEM DESIGNED FOR LATAH GLEN RESIDENTIAL COMMUNITY ONLY.

PROJECT RESTRAINED JOINT DATA:

SOIL TYPE = ML GRANULAR FILL
PIPE MATERIAL = DUCTILE IRON
SAFETY FACTOR = 2.5
TRENCH TYPE = 5
DEPTH OF BURY = 5'
DESIGN PRESSURE = 175 P.S.I.
NOMINAL SIZE = 8" DIAMETER

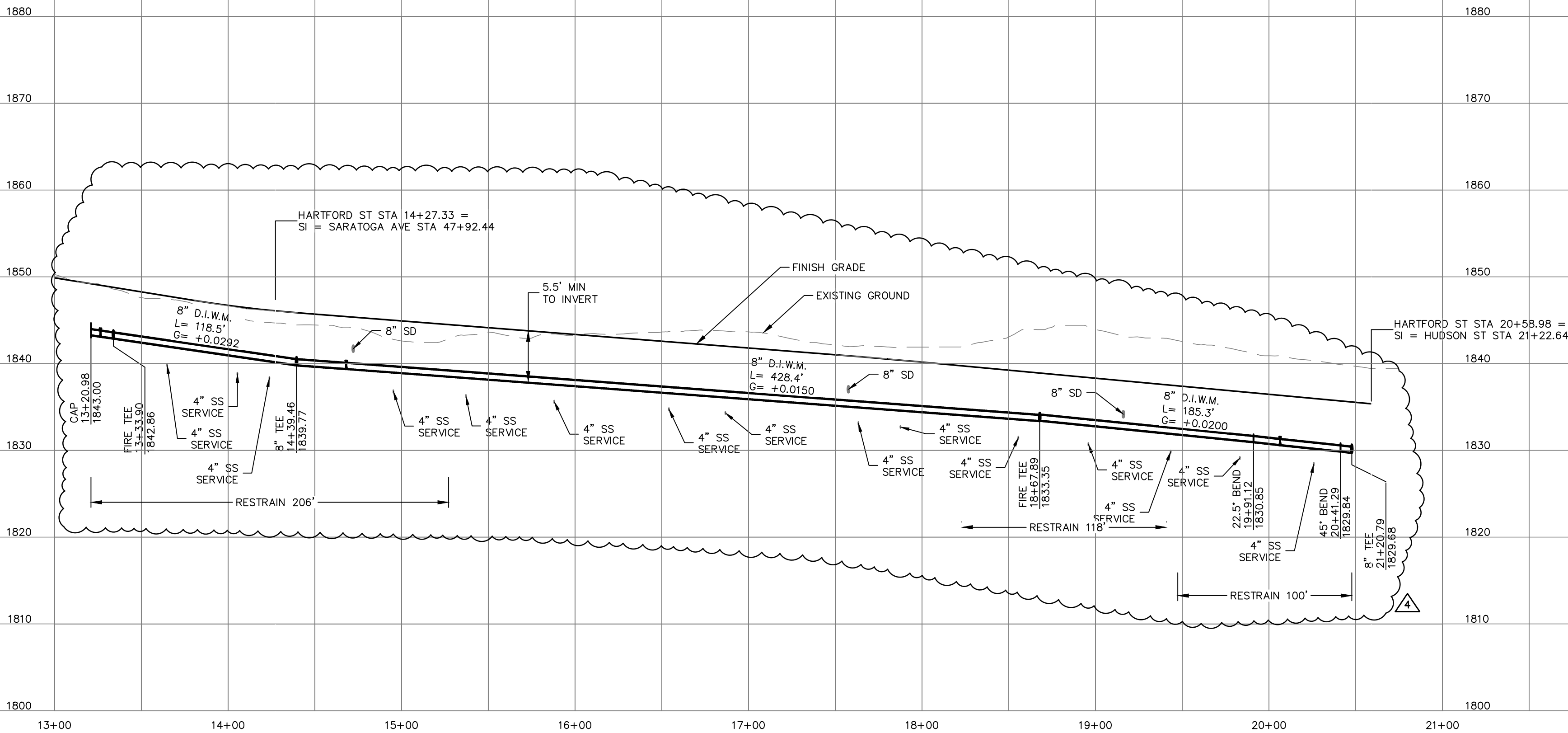
* THE LENGTHS ARE BASED ON DESIGN PRESSURE RESULTS FROM PROJECT RESTRAINED JOINT DATA ENTERED INTO THE CALCULATOR AT WEBSITE <https://ric.ebaa.com/calculator.php>.

RESTRAINED JOINT TABLE

CALCULATED PRESSURE (UPPER BENCH) = 67 PSI - DESIGN PRESSURE = 175 PSI
CALCULATED PRESSURE (LOWER BENCH) = 118 PSI - DESIGN PRESSURE = 175 PSI
SEE COVER SHEET FOR BENCH DELINEATION

REVISIONS				NAVD88 = ESTABLISHED FROM GPS		BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		BY DATES		CITY OF SPOKANE, WASHINGTON DEPARTMENT OF ENGINEERING SERVICES 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700		PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY		TYPE OF IMPROVEMENT: WATER	
				NAVD88 ELEV. :1843.87								SEGMENT LIMITS: HUDSON ST WATERLINE PLAN & PROFILE		PROJECT NO. PLAN NO.	
				CBM NO. :								PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023518 HUDSO S (02) 4 36-25N-42E	
				NAVD88 DATUM											
5/14/25	LC	19-342	GENERAL REVISION	3											
10/10/24	LC	19-342	GENERAL REVISION	2											
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1											
DATE	BY	PROJECT	DESCRIPTION												

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FITTING TYPE / SIZE	PIPE SIZE			
	12" & 10"	8"	6"	4"
	Length (feet) of Restrained Pipe Required in Each Direction:			
90° bends, tee branches, valves and dead-ends	-150'-	59'1"	-74'-	-59'-
11-1/4° bends	-10'-	3'	-6'-	-4'-
22-1/2° bends	-20'-	6'	-10'-	-6'-
45° bends	-40'-	11'	-20'-	-14'-

NOTE:
For static system pressures greater than 85 psi, adjust as follows:
• Add 1 foot of restraint length for each psi over 85 psi for all pipe diameters in the table.
• For locations that are served by a Pressure Reducing Valve (PRV) restrained lengths shall reflect PRV failure.
Restrained lengths shown are required each side of fitting
For pipe diameters greater than 12" restraint shall be calculated
For static pressures greater than 120 psi restraint shall be calculated

THIS RESTRAINED JOINT TABLE REFLECTS CALCULATED LENGTHS FOR THE DOMESTIC WATER SYSTEM DESIGNED FOR LATAH GLEN RESIDENTIAL COMMUNITY ONLY.

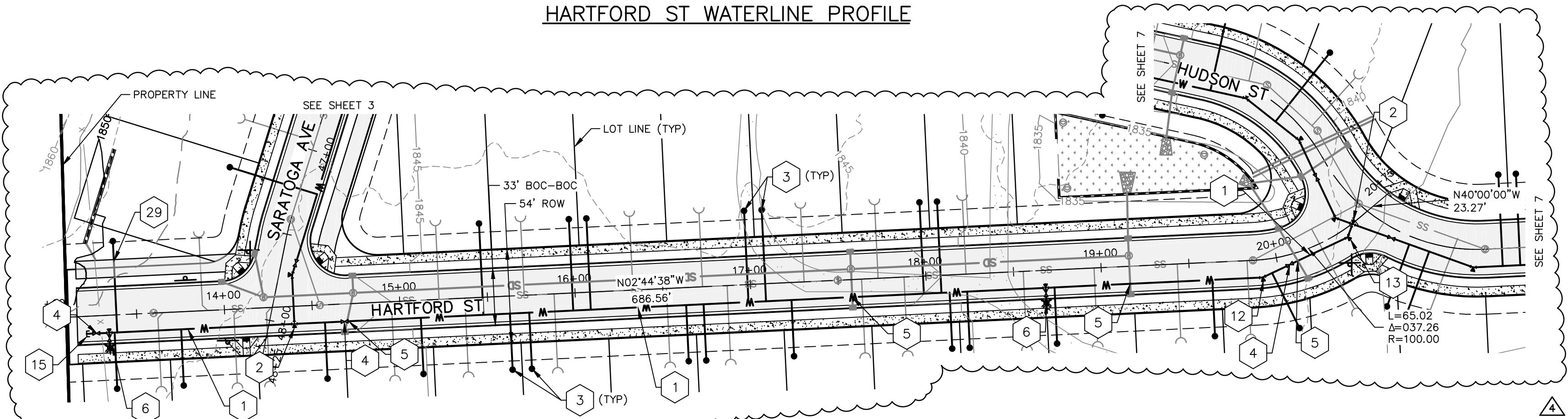
PROJECT RESTRAINED JOINT DATA:

SOIL TYPE	=	ML, GRANULAR FILL
PIPE MATERIAL	=	DUCTILE IRON
SAFETY FACTOR	=	2.5
TRENCH TYPE	=	5
DEPTH OF BURY	=	5'
DESIGN PRESSURE	=	175 P.S.I.
NOMINAL SIZE	=	8" DIAMETER

* THE LENGTHS ARE BASED ON DESIGN PRESSURE RESULTS FROM PROJECT RESTRAINED JOINT DATA ENTERED INTO THE CALCULATOR AT WEBSITE <https://ric.eboa.com/calculator.php>.

RESTRAINED JOINT TABLE

CALCULATED PRESSURE (UPPER BENCH) = 67 PSI - DESIGN PRESSURE = 175 PSI
CALCULATED PRESSURE (LOWER BENCH) = 118 PSI - DESIGN PRESSURE = 175 PSI
SEE COVER SHEET FOR BENCH DELINEATION



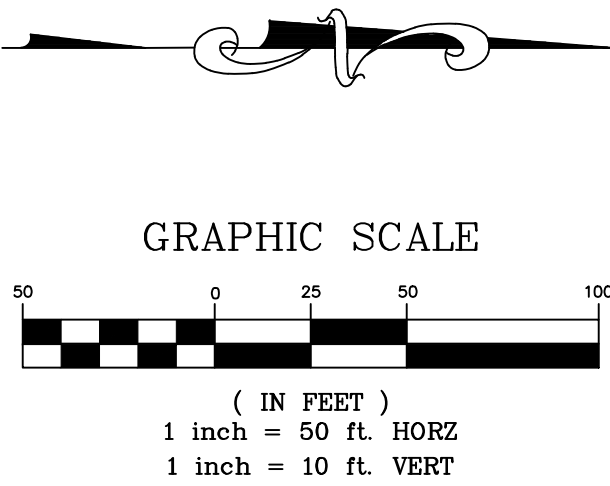
HARTFORD ST WATERLINE PLAN

TABLE

- | | |
|----|---|
| 1 | 8" DUCTILE IRON WATERLINE. |
| 2 | 8" TEE ALL MJ WITH RESTRAINT. |
| 3 | 1" DOMESTIC WATER SERVICE PER CITY OF SPOKANE STD. PLAN Y-111. SEE SHEET 10. |
| 4 | 8" GATE VALVE. |
| 5 | SLEEVE WATERLINE CROSSING PER CITY OF SPOKANE STD. PLAN A-5. SEE SHEET 10. |
| 6 | FIRE HYDRANT ASSEMBLY PER CITY OF SPOKANE STD. PLAN Y-101. SEE SHEET 10. |
| 12 | 8" 22.50° BEND. |
| 13 | 8" 45° BEND. |
| 15 | CAP AND MARK WATERLINE END WITH 6" PRESSURE TREATED 4"x4" POST PAINTED BLUE BURIED 48" DEEP POST INSTALLED PLUMB IMMEDIATELY ADJACENT TO PIPE END. LENGTH TO EXTEND FROM PIPE END TO A MINIMUM OF 2' ABOVE FINISHED GROUND GRADE. |
| 29 | 1" IRRIGATION SERVICE WITH BACKFLOW PREVENTER. SEE LANDSCAPE PLANS FOR MORE DETAIL. |

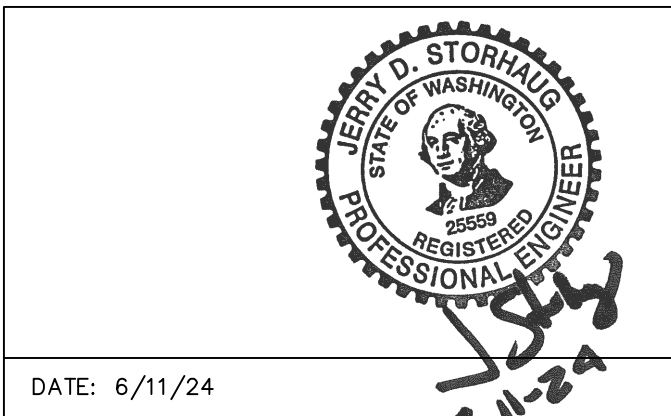
WATER NOTES

- THIS PLAN MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING LOCATIONS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL PIPE AND APPURTENANCES SHALL BE DUCTILE IRON.
- ALL VALVES AND TEES SHALL HAVE MECHANICAL JOINT FITTINGS.
- WATER SERVICES SHALL BE 1" DIA. TYPE "K" COPPER OR 2" HDPE CTS AND SHALL BE EXTENDED INSIDE THE PROPERTY LINE PER DRAFT CITY OF SPOKANE STANDARD PLAN Y-111, SEE SHEET 10.
- INDIVIDUAL PRESSURE REDUCING VALVES ARE REQUIRED ON ALL SERVICES THAT EXCEED 80 PSI STATIC.
- ALL HYDRANTS SHALL BE EQUIPPED WITH STORZ FITTINGS PER CITY OF SPOKANE STANDARDS.
- ALL CONNECTIONS TO LIVE MAINS SHALL BE MADE BY CITY FORCES.
- NO UTILITIES ARE TO BE INSTALLED WITHIN 5' PARALLEL TO WATER MAINS AND SERVICE LINES. SEPARATION TO SEWERS MUST BE MAINTAINED PER CITY OF SPOKANE PLANS A-4 AND A-5 CROSSING WATER/SEWER LINES OR THEIR CASING SHALL HAVE 6" MINIMUM VERTICAL SEPARATION.
- WATER LINES MAY BE INSTALLED AT A MAXIMUM OF 75% OF MANUFACTURERS MAXIMUM DEFLECTION.
- WATER LOWERINGS TO BE CONSTRUCTED PER CITY OF SPOKANE STANDARD PLAN A-5. SEE DETAILS SHEET 10.



GRAPHIC SCALE

storhäug
civil engineering | planning
landscape architecture | surveying
SE#19-342
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001



8
10

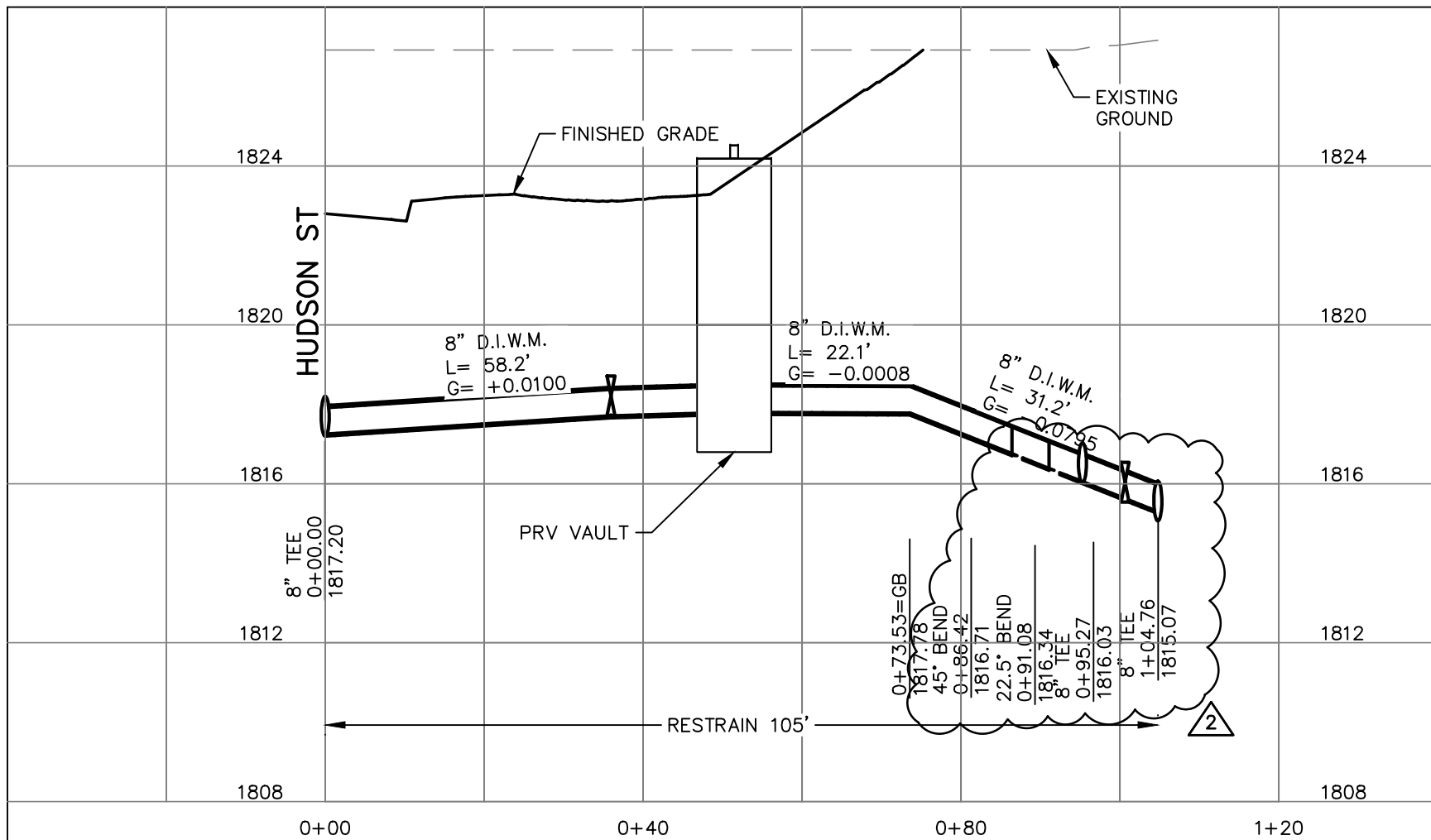
REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		
				CBM NO. :	SCALE		
				NAVD88 DATUM	SCALE		
5/14/25	LC	19-342	GENERAL REVISION	3	HORIZONTAL SCALE (22 x 34) 1"=50'		
10/10/24	LC	19-342	GENERAL REVISION	2	VERTICAL SCALE (22 x 34) 1"=10'		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	DRAWN: LMC 3/3/2023		
DATE	BY	PROJECT	DESCRIPTION		APPROVED: JDS 01/19/2024		

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

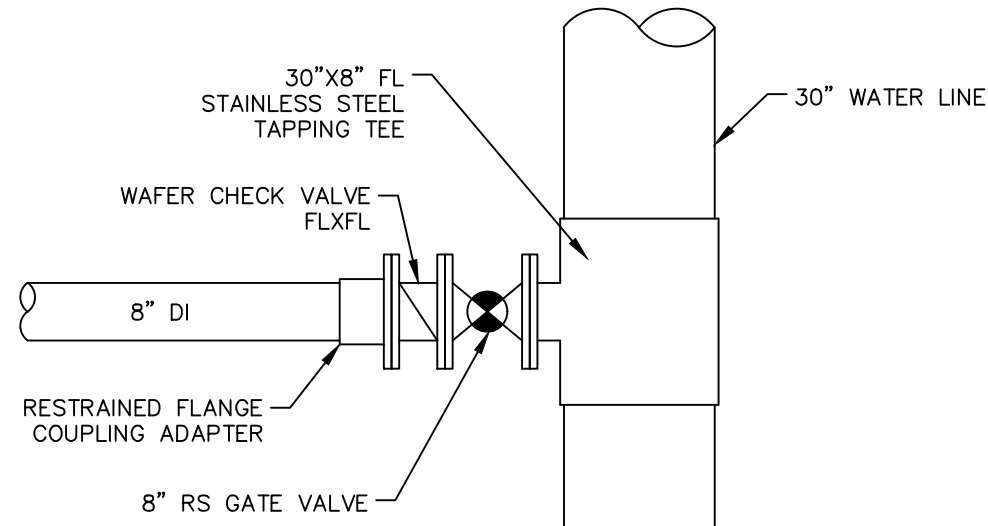
BY DATES
DRAWN: LMC 3/3/2023
APPROVED: JDS 01/19/2024

PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY		TYPE OF IMPROVEMENT: WATER	
SEGMENT LIMITS:		PROJECT NO.	
HARTFORD ST WATERLINE PLAN & PROFILE		HARTF S (02) 4 36-25N-42E	
PROJECT LIMITS: LATAH GLEN RESIDENTIAL		2023518	

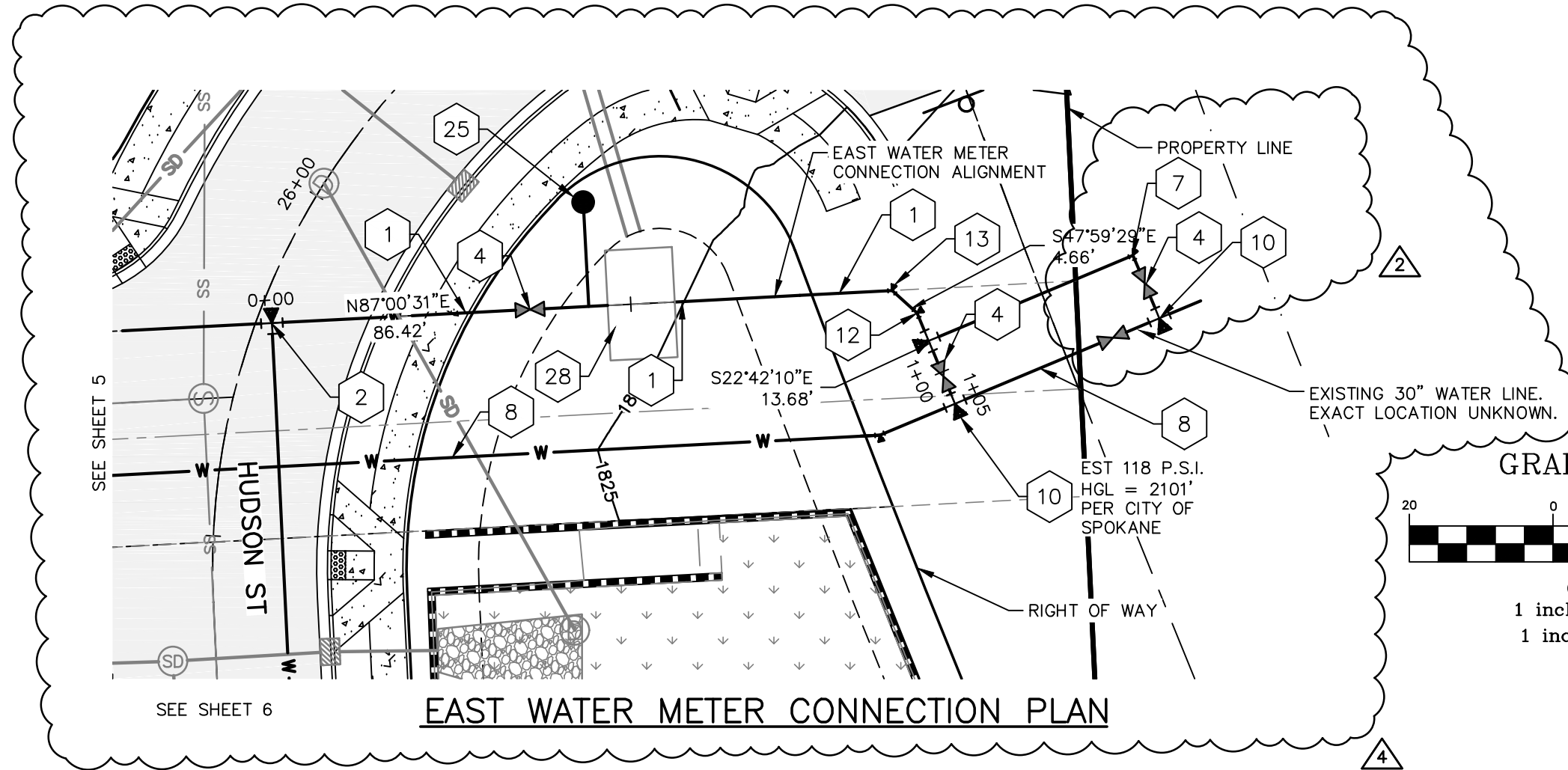
CALL BEFORE YOU DIG 1-800-424-5555



EAST WATER METER CONNECTION PROFILE



8" WATER TAP DETAIL



EAST WATER METER CONNECTION PLAN

WATER NOTES

1. THIS PLAN MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING LOCATIONS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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9. WATER LINES MAY BE INSTALLED AT A MAXIMUM OF 75% OF MANUFACTURERS MAXIMUM DEFLECTION.
10. WATER LOWERINGS TO BE CONSTRUCTED PER CITY OF SPOKANE STANDARD PLAN A-5. SEE DETAILS SHEET 10.

FITTING TYPE / SIZE	PIPE SIZE			
	12" & 10"	8"	6"	4"
Length (feet) of Restrained Pipe Required in Each Direction:				
90° bends, tee branches, valves and dead-ends	150'	59'	74'	53'
11-14° bends	10'	3'	6'	4'
22-12° bends	20'	6'	10'	8'
45° bends	40'	11'	20'	14'

NOTE:
For static system pressures greater than 85 psi, adjust as follows:
• Add 1 foot of restraint length for each psi over 85 psi for all pipe diameters in the table.
• For locations that are served by a Pressure Reducing Valve (PRV) restrained lengths shall reflect PRV failure.
Restrained lengths shown are required each side of fitting
For pipe diameters greater than 12" restraint shall be calculated
For static pressures greater than 120 psi restraint shall be calculated

THIS RESTRAINED JOINT TABLE REFLECTS CALCULATED LENGTHS FOR THE DOMESTIC WATER SYSTEM DESIGNED FOR LATAH GLEN RESIDENTIAL COMMUNITY ONLY.

PROJECT RESTRAINED JOINT DATA:

SOIL TYPE = ML GRANULAR FILL
PIPE MATERIAL = DUCTILE IRON
SAFETY FACTOR = 2.5
TRENCH TYPE = 5
DEPTH OF BURY = 5'
DESIGN PRESSURE = 175 P.S.I.
NOMINAL SIZE = 8" DIAMETER

* THE LENGTHS ARE BASED ON DESIGN PRESSURE RESULTS FROM PROJECT RESTRAINED JOINT DATA ENTERED INTO THE CALCULATOR AT WEBSITE <https://ric.eboa.com/calculator.php>.

RESTRAINED JOINT TABLE

CALCULATED PRESSURE (UPPER BENCH) = 67 PSI - DESIGN PRESSURE = 175 PSI
CALCULATED PRESSURE (LOWER BENCH) = 118 PSI - DESIGN PRESSURE = 175 PSI
SEE COVER SHEET FOR BENCH DELINEATION

TABLE

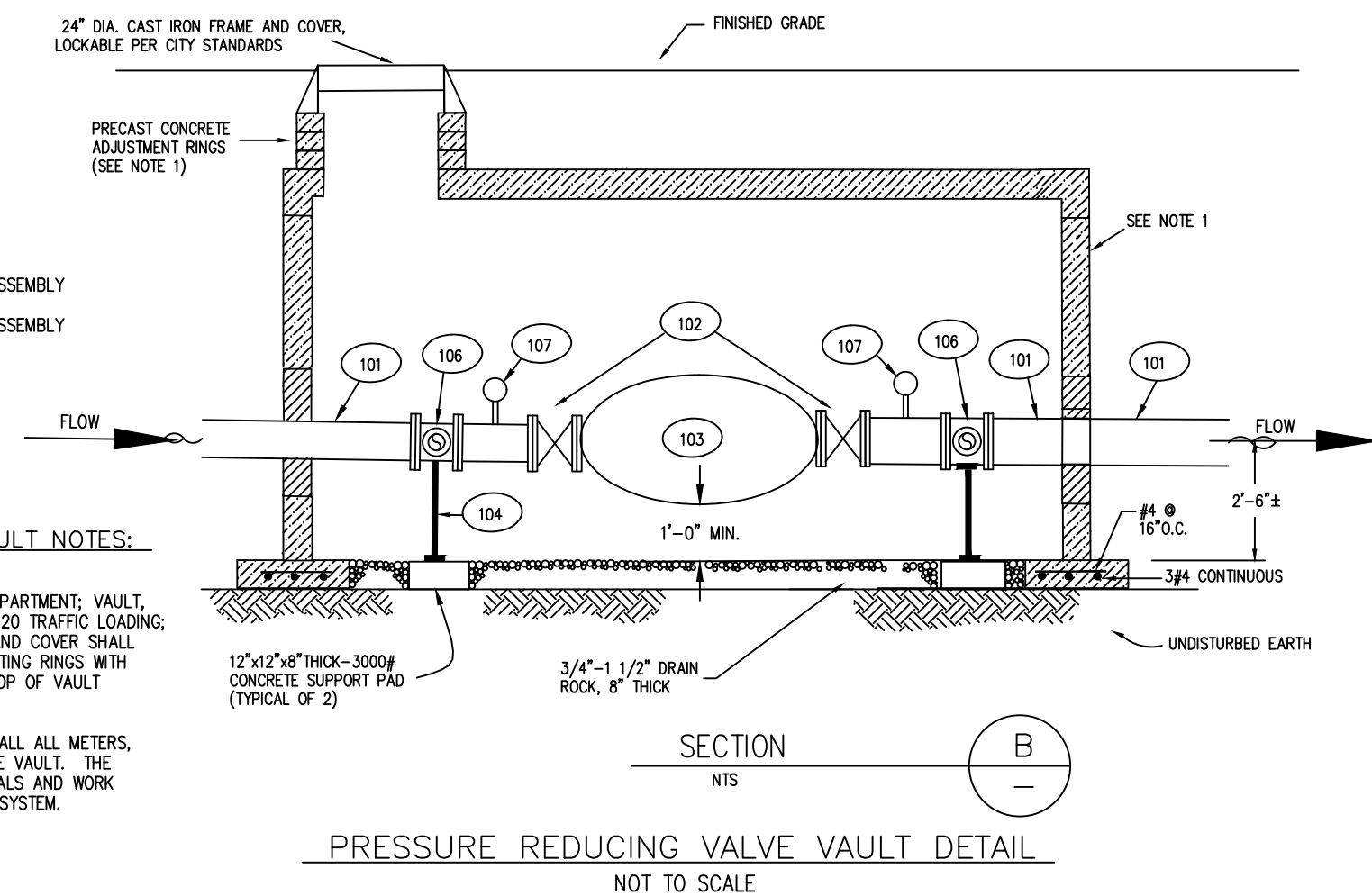
1	8" DUCTILE IRON WATERLINE.
2	8" TEE ALL MJ WITH RESTRAINT.
4	8" GATE VALVE.
5	SLEEVE WATERLINE CROSSING PER CITY OF SPOKANE STD. PLAN A-5, SEE SHEET 10.
7	8" 90° BEND.
8	30" WATER TRANSMISSION MAIN TO BE INSTALLED BY THE CITY OF SPOKANE.
10	8" WATER TAP TO BE INSTALLED BY THE CITY OF SPOKANE. TAPS TO BE LOCATED ON EITHER SIDE OF 30" VALVE.
12	8" 22.50° BEND.
13	8" 45° BEND.
17	NOT USED.
25	2" IRRIGATION SERVICE WITH BACKFLOW PREVENTER. SEE LANDSCAPE PLANS FOR MORE DETAIL.
28	PRESSURE REDUCING VALVE VAULT. SEE DETAIL THIS SHEET.

MATERIAL LIST

- 101 8" D.I. MAIN
- 102 8" OS & Y RSV
- 103 8" CLA-VAL PRESSURE REDUCING VALVE ASSEMBLY
- 104 ADJUSTABLE PIPE SUPPORTS
- 105 2" CLA-VAL PRESSURE REDUCING VALVE ASSEMBLY
- 106 8" x 8" x 2" TEE
- 107 PRESSURE GAUGE ASSEMBLY
- 108 2" OS & Y RSV
- 109 2" ELBOW
- 110 2" D.I. MAIN (TYP.)

PRESSURE REDUCING VALVE VAULT NOTES:

- 1) CONCRETE VAULT SHALL: BE ACCEPTABLE TO CITY OF SPOKANE WATER DEPARTMENT; VAULT, RING(S) AND COVER SHALL BE SUITABLE FOR H-20 TRAFFIC LOADING; VAULT SHALL BE SIZED BY CONTRACTOR; RING AND COVER SHALL BE 24" C.I.; PROVIDE PRECAST CONCRETE ADJUSTING RINGS WITH A HEIGHT BETWEEN 6" TO 1'-4"; COVER OVER TOP OF VAULT SHALL BE A MIN. OF 12".
- 2) THE CITY OF SPOKANE SHALL PROVIDE AND INSTALL ALL METERS, VALVES, PIPING, FITTINGS, ETC. WITHIN THE VALVE VAULT. THE CONTRACTOR SHALL FURNISH ALL OTHER MATERIALS AND WORK NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM.



PRESSURE REDUCING VALVE VAULT DETAIL
NOT TO SCALE



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808
WEST SPOKANE FALLS BLVD. SPOKANE,
WASHINGTON 99201-3343 (509) 625-6700

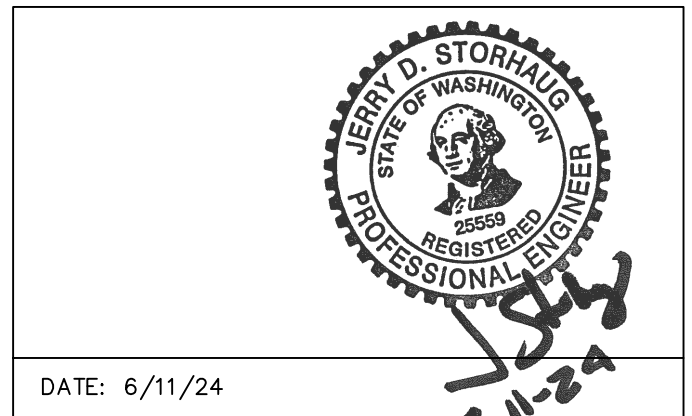


BY: LMC
DATE: 3/3/2023
DRAWN: LMC
APPROVED: JDS 01/19/2024

NAVD88 = ESTABLISHED FROM GPS
NAVD88 ELEV.: 1843.87
CBM NO.:
NAVD88 DATUM
BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP
PLS 48373 AT THE SOUTHEAST PROPERTY CORNER
SCALE
HORIZONTAL SCALE (22 x 34)
VERTICAL SCALE (22 x 34)

25' 0' 25' 50'
SCALE IN FEET

REVISIONS			
DATE	BY	PROJECT	DESCRIPTION
5/14/25	LC	19-342	GENERAL REVISION
10/10/24	LC	19-342	GENERAL REVISION
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS

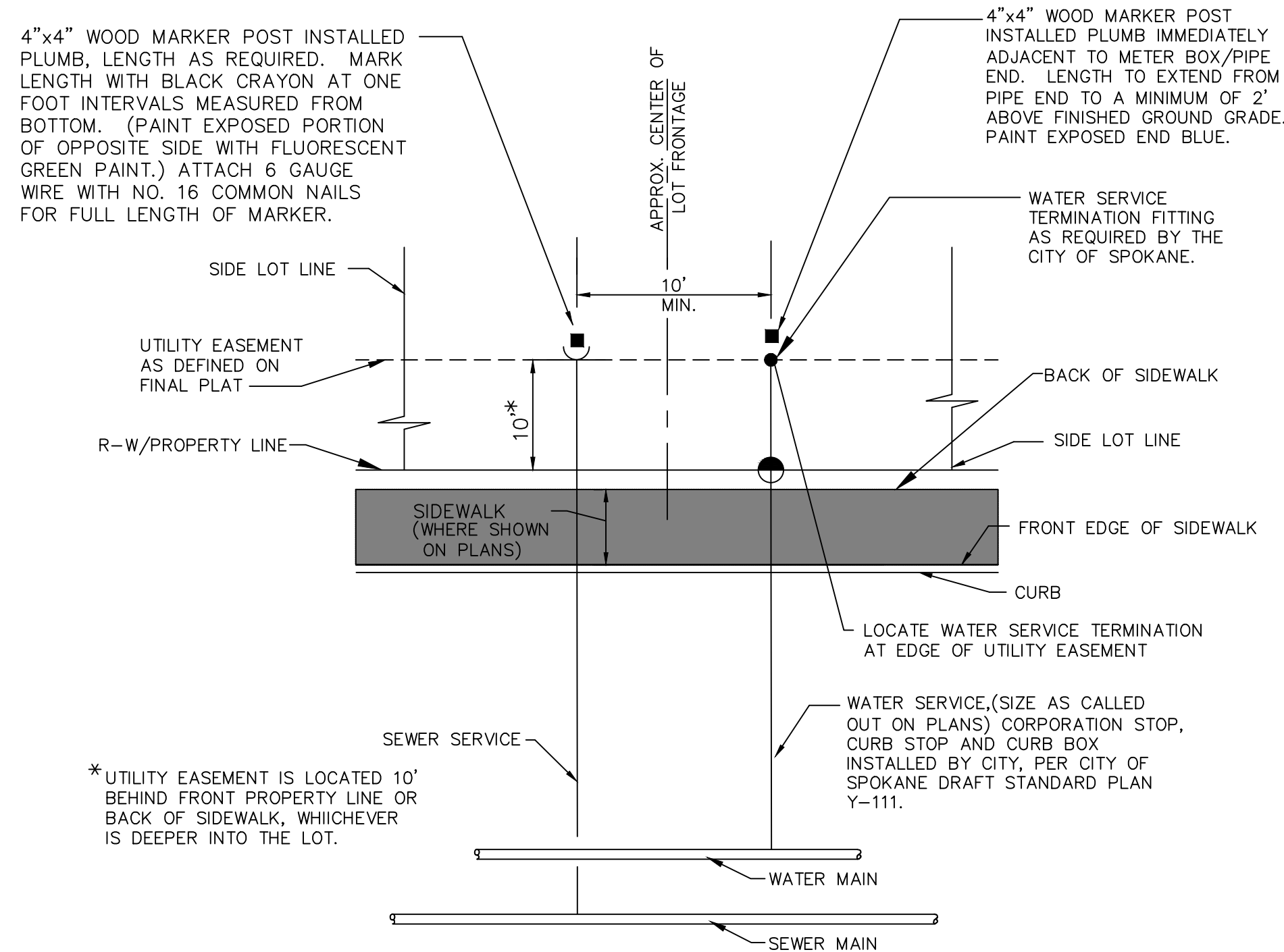
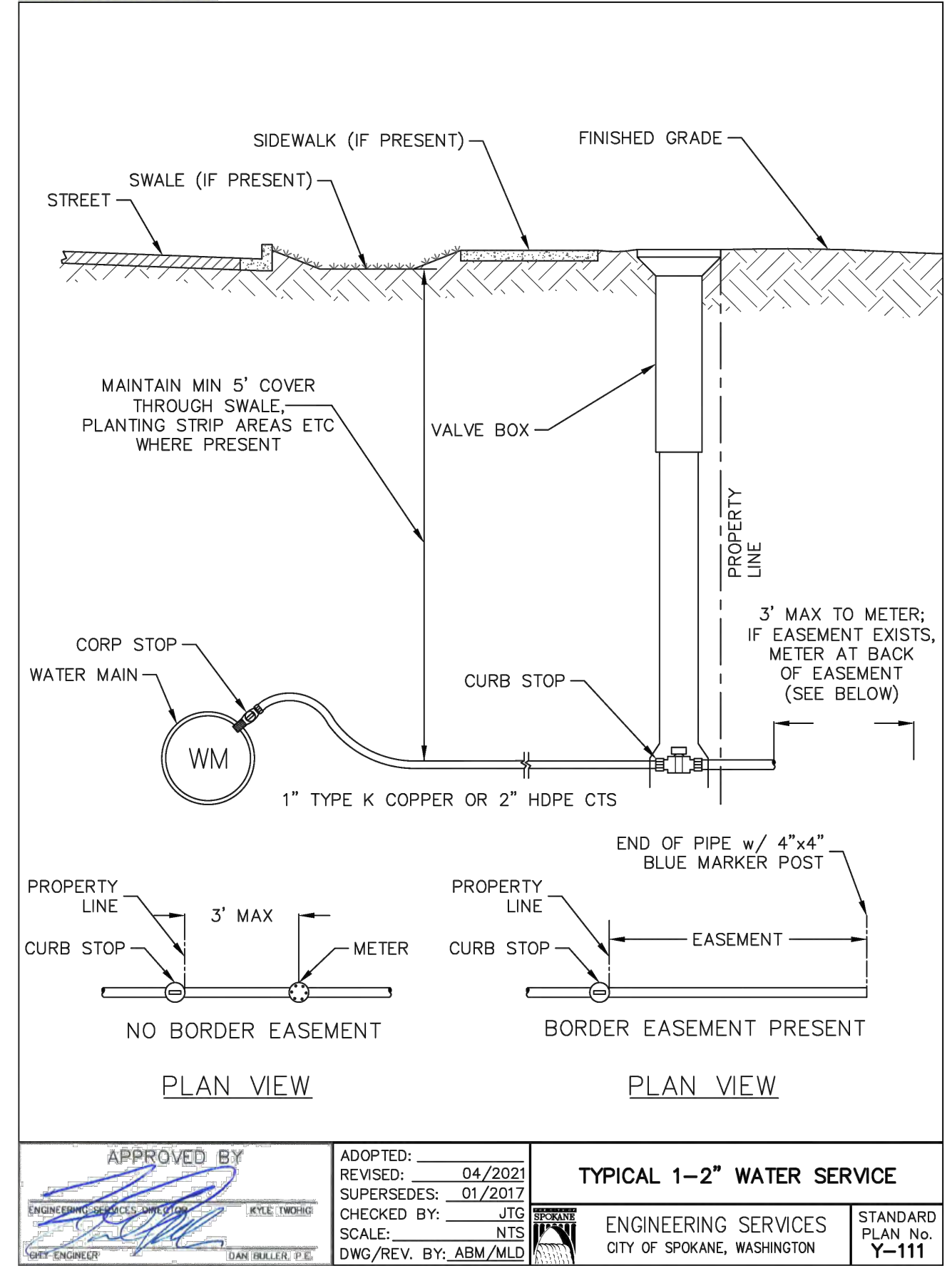
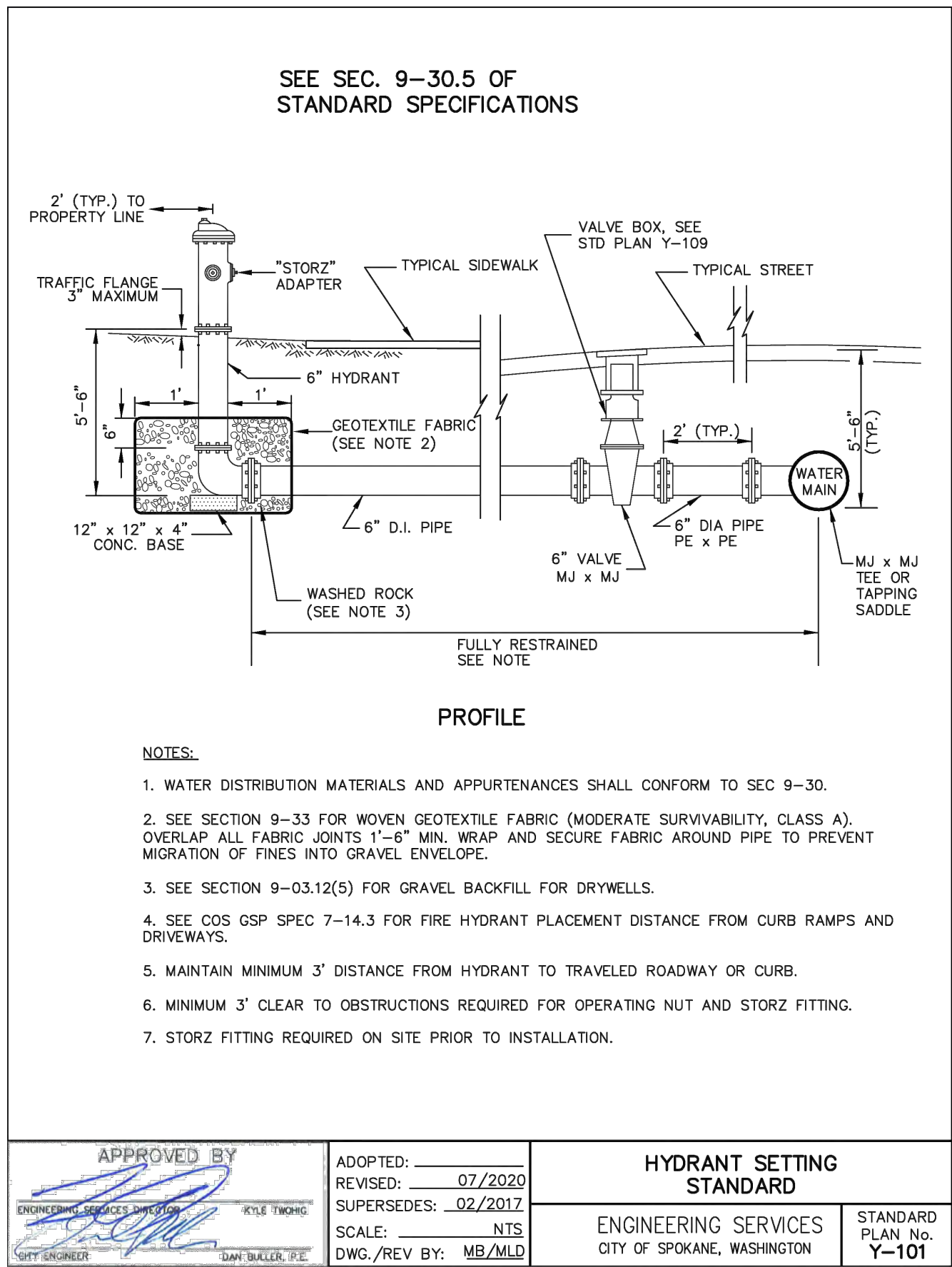
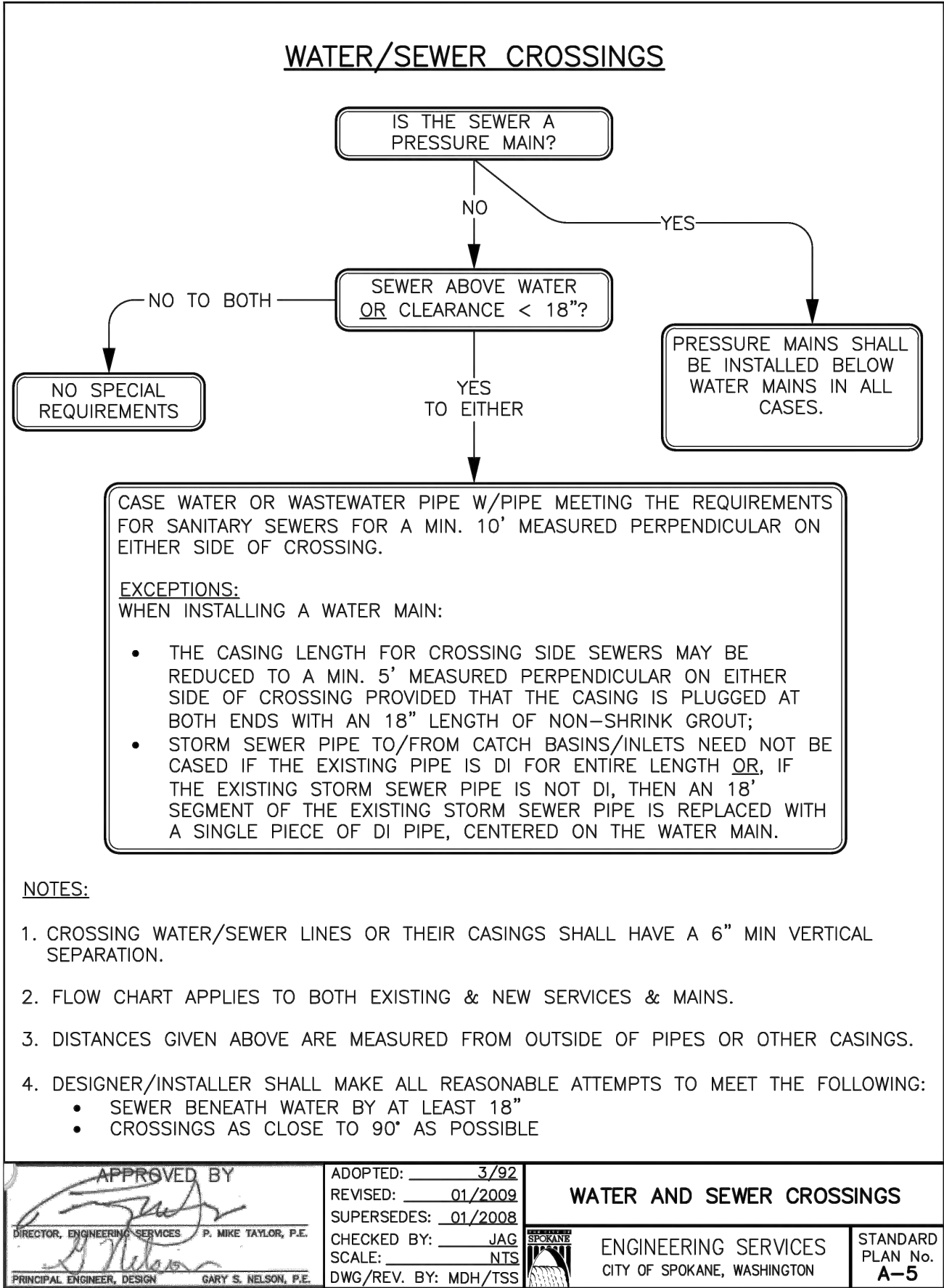
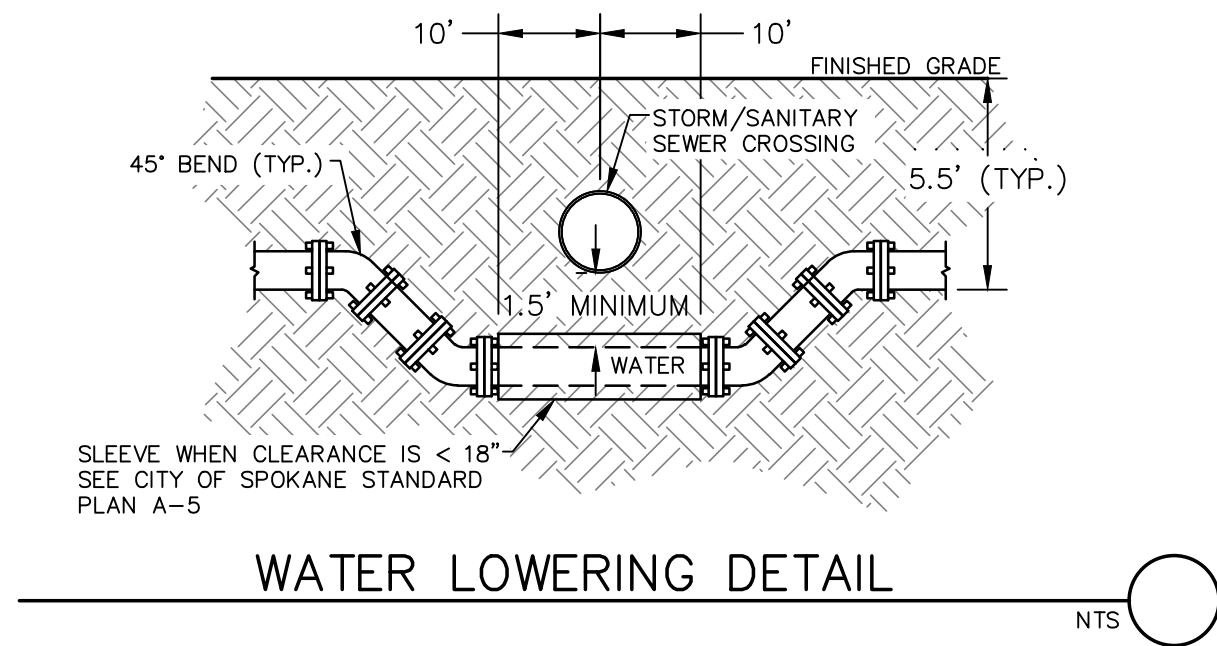


DATE: 6/11/24
PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY

SEGMENT LIMITS:
WATER METER CONNECTIONS
PLAN & PROFILE
PROJECT LIMITS: LATAH GLEN RESIDENTIAL

TYPE OF IMPROVEMENT: WATER
PROJECT NO.: 2023518
PLAN NO.: 36-25N-42E

CALL BEFORE YOU DIG 1-800-424-5555



TYPICAL WATER AND SEWER SERVICE LOCATION

NOT TO SCALE



REVISIONS				NAVD88 = ESTABLISHED FROM GPS			
				NAVD88 ELEV. :1843.87	25' 0' 25' 50'		
				CBM NO. :	SCALE IN FEET		
				NAVD88 DATUM	SCALE		
5/14/25	LC	19-342	GENERAL REVISION	3	BENCH MARK LOCATION: 5/8" REBAR WITH PLASTIC CAP PLS 48373 AT THE SOUTHEAST PROPERTY CORNER		
10/10/24	LC	19-342	GENERAL REVISION	2	HORIZONTAL SCALE (22 x 34) 1"=50'		
4/10/24	LC	19-342	ASI #1 CONTRACTOR QUESTIONS	1	VERTICAL SCALE (22 x 34) 1"=10'		
DATE	BY	PROJECT	DESCRIPTION		SCALE	HORIZONTAL SCALE (22 x 34)	1"=50'
					SCALE	VERTICAL SCALE (22 x 34)	1"=10'

BY	DATES
LMC	3/3/2023
JDS	01/19/2024

SPOKANE	CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES 808	
WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6700	

DATE: 6/11/24			
PROJECT NAME: LATAH GLEN RESIDENTIAL COMMUNITY			
SEGMENT LIMITS:		TYPE OF IMPROVEMENT: WATER	
DOMESTIC WATER DETAILS		PROJECT NO.	PLAN NO.
		2023518	36-25N-42E
PROJECT LIMITS: LATAH GLEN RESIDENTIAL			

CALL BEFORE YOU DIG 1-800-424-5555