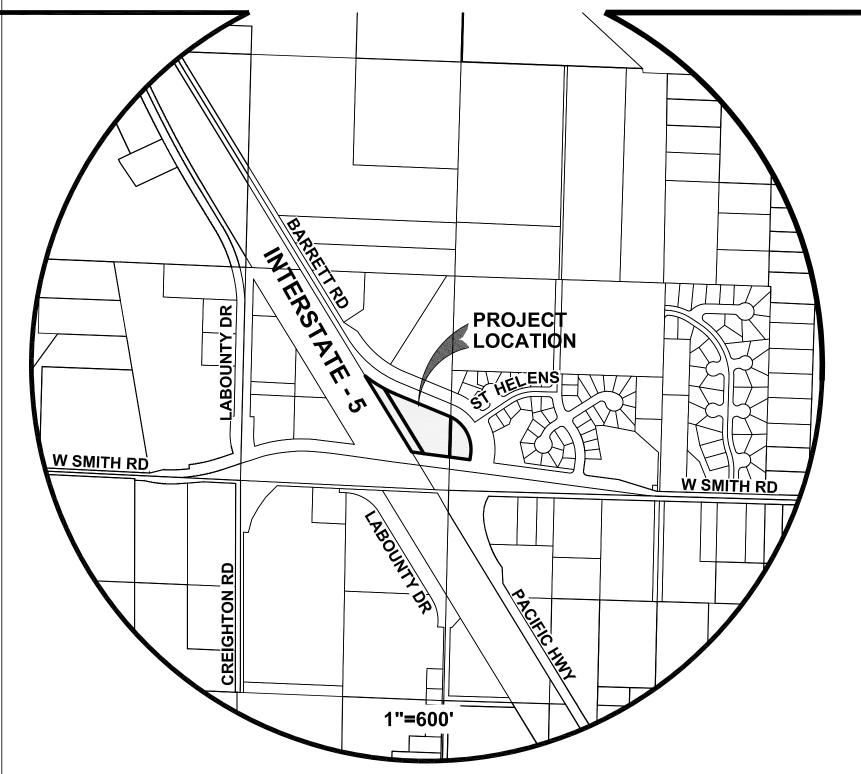
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# A PORTION OF THE SE 1/4 & SW 1/4 OF SECTION 28 TOWNSHIP 39 N., RANGE 2 E. OF THE W.M. CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

# BARRETT ROAD BUSINESS PARK RECORD DRAWINGS -PHASE I, II & III



PARCEL NO. 390228266032

PARCEL NO. 390228246038

ALL UNDERGROUND UTILITIES SHOWN ON THIS

PLAN ARE APPROXIMATE LOCATIONS ONLY AND

THIS SITE ARE SHOWN. THE CONTRACTOR SHALL

FIELD VERIFY THE LOCATIONS OF ALL UTILITIES

WASHINGTON STATE UTILITY LOCATED CENTER AT

PRIOR TO CONSTRUCTION. CONTACT THE

LEAST 48 HOURS BEFORE CONSTRUCTION

THERE IS NO GUARANTEE THAT ALL UTILITIES ON

5335 BARRETT RD

SYB HOLDING CO INC

BNB-ASB LLC

**BURIED UTILITIES NOTE:** 

PARCEL B

#### **SHEET INDEX**

- 1. COVER SHEET
- 2. CITY OF FERNDALE GENERAL NOTES
- 3. EXISTING CONDITIONS PLAN
- 4. TEMPORARY EROSION CONTROL PLAN, NOTES & DETAILS
- COMPOSITE UTILITY PLAN
- 6. STORMWATER: OVERALL SITE PLAN
- 7. ROAD & STORMWATER: ON-SITE PLAN & PROFILES 1 & 2
- **ROAD & STORMWATER: ON-SITE PLAN & PROFILES 3 & 4**
- 9. ROAD & STORMWATER: BARRETT RD PLAN & PROFILE
- 9A. ROAD & STORMWATER: BARRETT RD PLAN & PROFILE
- 10. STORMWATER POND: PLAN & DETAILS
- 11. GRADING PLAN & CURB RETURNS
- 12. CROSS SECTIONS BARRETT: STA 2+00 TO 9+50
- 13. STORMWATER AND ROAD TYPICAL DETAILS
- 14. STORMWATER AND ROAD TYPICAL DETAILS
- 15. WATER AND SEWER PLAN
- 16. WATER AND SEWER TYPICAL DETAILS

= POLYVINYL CHLORIDE PIPE

= STORM DRAIN CATCH BASIN

= SANITARY SEWER CLEAN OUT

= STORM WATER MANAGEMENT FILTER

STORM WATER MANAGEMENT MANUAL

STORMWATER POLLUTION PREVENTION

TEMPORARY EROSION AND SEDIMENT

= SANITARY SEWER MANHOLE

= PUGET SOUND ENERGY

= NORTHING

= SLOPE

SQ. IN. = SQUARE INCHES

= STATION

= STRUCTURE

= SIDEWALK

ROW

SSMH

STA

STRC

SWMF

SWPPP

TESC

= RETAINING WALL

= ROOF AND YARD

= SANITARY SEWER

**TEMPORARY** 

CONTROL

= TOP OF WALL

= WATER MAIN

= CROSSING

= DIAMETER

= TYPICAL

= WATER

= RIGHT OF WAY

= STORM DRAIN

= SQUARE FEET

SOUTHEAST QUARTER OF SECTION 28. TOWNSHIP 39 NORTH, RANGE 2 EAST OF ROAD. EXCEPT RIGHT OF WAY FOR PACIFIC HIGHWAY LYING ALONG THE NORTHEASTERLY LINE THEREOF AND ALSO EXCEPT THAT RIGHT OF WAY FOR SMITH ROAD ALONG THE SOUTHERLY LINE THEREOF. SITUATE IN WHATCOM COUNTY, WASHINGTON.

LEGAL DESCRIPTIONS

ALL THAT PORTION OF THE EAST THREE QUARTERS OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER IN SECTION 28, TOWNSHIP 39 NORTH, RANGE 2 EAST OF W.M., LYING NORTHEASTERLY OF PRIMARY STATE HIGHWAY NO. 5 AND LYING NORTHERLY OF SMITH ROAD INTERCHANGE AND SOUTHERLY OF COUNTY ACCESS ROAD AND RIGHT OF WAY; EXCEPT ANY PORTION THEREOF LYING WITHIN THE SAID ROADS. SITUATE IN WHATCOM COUNTY, WASHINGTON.

STATE HIGHWAY NO. 1. IN THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 28 TOWNSHIP 39 NORTH RANGE 2 FAST OF WM WHATCOM COUNTY, WASHINGTON, DESCRIBED IN DEED DATED OCTOBER 9, 1922, RECORDED NOVEMBER 14, 1922, IN VOLUME 168 OF DEEDS, PAGE 239 UNDER AUDITOR'S FILE NO. 257038, RECORDS OF WHATCOM COUNTY, SITUATE IN WHATCOM COUNTY, WASHINGTON.

#### SURVEYOR'S NOTES

- 1) DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA
- 2) EQUIPMENT USED: LEICA TCRA1203+: 00'03"  $\pm$  2 PPM,  $\pm$  2 MM
- MONUMENTS SET OR FOUND ON OR ABOUT MAY AND JUNE 2015 HORIZONTAL DATUM: NAD 83/91 BASIS OF BEARINGS: FERN-12 (N.=673760.11, E.=1222546.51)
- AND FERN-13 (N.=673448.20, E.=1226649.22) PER CITY OF FERNDALE SURVEY MONUMENT NETWORK, DATED JUNE 2001. VERTICAL DATUM: NGVD 29, FERN-12 PURPOSE OF SURVEY: DELINEATE PARCEL AND PREPARE RECORD OF SURVEY. IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON: 58.09 AND WASHINGTON
- AUTHORITY CODE CHAPTER 332-130. THIS RECORD OF SURVEY DEPICTS OCCUPATIONAL INDICATORS, SUCH AS FENCES. THESE INDICATORS REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT RESOLVE ANY OF THE LEGAL OWNERSHIP ISSUES THAT MAY ARISE FROM THESE UNWRITTEN TITLE CLAIMS.
- 7) THIS SURVEY WAS PERFORMED WITH THE BENEFIT OF A CURRENT ALTA COMMITMENT ORDER NO. W-122950, DATED AUGUST 29, 2014, SUPPLEMENTAL ORDER NO. 145815, DATED JANUARY 31, 2018, SUPPLIED BY WHATCOM LAND TITLE COMPANY, INC. 8) THIS SURVEY IS INTENDED TO SHOW DISCREPANCIES OF PAST ISSUES AND NOT INTENDED
- TO RESOLVE LEGAL BOUNDARY LINE ISSUES. 9) REFERENCES USED ARE RECORD OF SURVEY'S, RECORDED UNDER AUDITOR'S FILE NUMBER 213002085 AND 920929162, PLAT OF SHIELDS ESTATES, RECORDED UNDER AUDITOR'S FILE NUMBER 1971200927, RECORDS OF WHATCOM COUNTY, WASHINGTON AND STATE OF WASHINGTON, HIGHWAY COMMISION MAP AND PROFILE, SR 5 (SR 99), FERNDALE TO BELLINGHAM, SHEET 6 OF 14, DATED MARCH 4, 1925 AND RIGHT OF WAY PLANS, SR 5, MP 256.53 TO MP 262.4, BELLINGHAM TO SMITH ROAD VICINITY, DATED
- 10) RESOLVED THE RIGHT-OF-WAY OF SR 5 (OLD SR99) FROM STATE OF WASHINGTON, STATE HIGHWAY COMMISION MAP AND PROFILE, SR 5 (SR 99), FERNDALE TO BELLINGHAM, SHEET 6 OF 14, DATED MARCH 4, 1925, HOLDING THE CALL 52.1' FROM THE SOUTH QUARTER CORNER OF SECTION 28 AS SHOWN THEREON AND MONUMENT "F" AS SHOWN HEREON. ALSO USED THE STATIONING THEREON OF 100+24.1 OF SAID POINT
- 11) THE RIGHT OF WAY OF SMITH ROAD WAY CALCULATED FROM WASHINGTON STATE HIGHWAY COMMISION, DEPARTMENT OF HIGHWAYS PLANS, SR 5, BELLINGHAM TO SMITH ROAD VICINITY, MP 256.53 TO MP 262.4, SHEET 14 OF 17, DATED MAY 14, 1970, HOLDING FOUND MONUMENT "A" AND "B" AND THE RECORD ANGLE OF 90°00'00 TO THE LEFT AS SHOWN ON SAID PLANS.
- OF TANGENTS FITTING RECORD RADII TO THEM.

#### EXISTING LEGEND:

- = FOUND IRON PIPE IN CASE MON = FND REBAR W/YELLOW PLASTIC
- CAP MARKED "LS 18927"
- = FND CONC. MONUMENT W/NAIL

= FND REBAR W/YELLOW PLASTIC

- = FND REBAR W/YELLOW PLASTIC CAP MARKED "LS 21423"
- CAP MARKED "LS 9361" = PROJECT BENCH MARK
- = EXISTING STORMDRAIN CATCH BASIN
- = EXISTING SANITARY SEWER MANHOLE
- = EXIST SANITARY SEWER CLEANOUT ≡ EXISTING WATER METER
- = EXISTING HYDRANT
- = EXISTING POWER POLE
- $|\triangle|$  = EXISTING POWER BOX
- = EXISTING J-BOX
- - □ = EXISTING TELEPHONE BOOTH = EXISTING TELEPHONE MANHOLE

- = EXISTING PARCEL LINE
- = EXISTING SURVEY CENTERLING
- = EXISTING CENTERLINE PAINT
- = EXISTING STORMWATER PIPE
- = EXISTING STORMWATER PIPE, 8"ø = EXISTING STORMWATER PIPE, 12"ø
- (LOCATION PER COF ASBUILTS-NOT SURVEYED)
- = EXISTING WATER SERVICE
- = FXISTING 6' SEWER SERVICE (LOCATION PER COF ASBUILTS-NOT SURVEYED)
- = EXIST UNDERGROUND POWER (PAINT MARK)
- = EXISTING BOTTOM OF BANK = EXIST CONTOUR (INDEX)

- = EXISTING CURB = EXISTING ASPHALT
- = EXISTING GRAVEL

#### PROPOSED LEGEND:

= PROPOSED FIRE HYDRANT

**→** = PROPOSED VALVE

= PROPOSED CAP

F = PROPOSED TEE

■ = PROPOSED BLOW-OFF

► PROPOSED REDUCER

 $\Gamma$  = PROPOSED ADAPTER (FLXMJ)

= PROPOSED STORMDRAIN CATCHBASIN - TYPE 1 = PROPOSED STORMDRAIN CATCHBASIN - TYPE 2

(PIV) = PROPOSED POST INDICATOR VALVE (PIV)

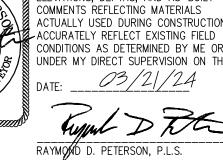
PROPOSED FIRE DEPARTMENT CONNECITON (FDC)

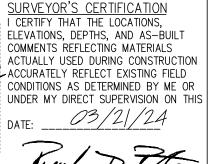
- = PROPOSED STORM DRAIN SERVICE
- PROPOSED STORM DRAIN CLEANOUT = PROPOSED SEWER MANHOLE
- = PROPOSED SANITARY SEWER CLEANOUT ▲ = PROPOSED SANITARY SEWER SERVICE
- MAY 14, 1970, RECORDS OF WASHINGTON DEPARTMENT OF TRANSPORTATION.
- TO RESOLVE THE RIGHT OF WAY ANGLE POINT.
- 12) BARRETT ROAD RIGHT OF WAY WAS RESOVLED HOLDING FOUND CENTERLINE MONUMENTS

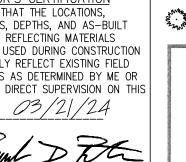




<u>SURVEYOR'S CERTIFICATION</u> ELEVATIONS, DEPTHS, AND AS-BUILT COMMENTS REFLECTING MATERIALS ACCURATELY REFLECT EXISTING FIELD







= PROPOSED 45° BEND = PROPOSED 22.5° BEND → = THRUST BLOCK = PROPOSED LANDSCAPE BUSH & TREE **CALL 48 HOURS** 



= PROPOSED STORMWATER PIPE. 8"ø >==< ==0 ====< = PROPOSED CUVLERT

= PROPOSED DITCH =< = S6 = = K = S6 = = = = PROPOSED SEWER LINE. 6"ø = PROPOSED WATER LINE, 8"ø **===** W8**====** W8**===** 

= PROPOSED WATER LINE, 6"ø = PROPOSED WATER LINE, 4"ø = PROPOSED CUT LINE

= PROPOSED TOP OF BANK = PROPOSED BOTTOM OF BANK

= PROPOSED PERFORATED PIPE  $\oplus$  RY RY RY = PROPOSED ROOF & YARD DRAIN

= PROPOSED UNDERGROUND POWER = PROPOSED CONTOUR (INDEX)

= PROPOSED CONTOUR (NORMAL) = PROPOSED RETAINING WALL

> = PROPOSED ASPHALT = PROPOSED CONCRETE

> > = PROPOSED LANDSCAPING

= PROPOSED STRIPING

= PROPOSED LIGHTING ATTACHED TO BUILDING = PROPOSED STREET LIGHT

= PROPOSED POWER STRUCTURE

RL 03/08/24 AS-BUILTS BY DATE REVISION

**PROJECT CONTACTS** 

SYB HOLDING CO INC

FERNDALE, WA 98248

(XXX) XXX-XXXX

CONTACT: SAM BOULOS

5160 INDUSTRIAL PL #108

5160 INDUSTRIAL PL #108

CONTACT: KYLE HAGGITH, PLS.

FERNDALE, WA 98248

(360) 383-0620

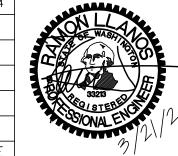
CONTACT: RAMON LLANOS, PE.

FERNDALE, WA 98248

(360) 383-0620

PO BOX 189

LDES, INC.





**ABBREVIATIONS** 

BNDRY = BOUNDARY

= CFNTFRLINF

= CONCRETE

= CONTROL

= DETAIL

ELEV/EL = ELEVATION

EXIST/EX = EXISTING

= EASTING

= DUCTILE IRON

= EXISTING GROUND

= EDGE OF PAVEMENT

= FINISH FLOOR

= GATE VALVE

= FIRE HYDRANT

= JUNCTION BOX

= LINEAR FEET

= PERMANENT

= PROPOSED

= INVERT ELEVATION

= OUTSIDE DIAMETER

= PERFORATED PIPE

= FLOW LINE

= FOUND

= POUNDS

= OFFSET

= FINISH GROUND

= BEST MANAGEMENT PRACTICE

= DEPARTMENT OF ECOLOGY

= CRUSHED SURFACING TOP COURSE

= CRUSHED SURFACING BASE COURSE

= CORRUGATED POLYETHYLENE DRAIN PIPE N

LDES, INC. **5160 INDUSTRIAL PL. #108** FERNDALE, WA 98248 PHONE 360-383-0620 FAX 360-383-0639

	14	55
	DWG. NAME:	
)	1455-CIVIL-WSDOT-NEW-sewer - AB-phase	1-3.dwg
	DESIGNED BY:	
		RL
	DRAWN BY:	
		SR
	CHECKED BY:	RL

SAM BOULOS PO BOX 189 FERNDALE WA

ENGINEER'S CERTIFICATION

NGIN**F**ERING PRACTICE.

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN

INSPECTED BY LDES AND TO THE BEST OF MY

KNOWLEDGE, HAVE BEEN CONSTRUCTED IN

CONFORMANCE WITH THE CITY OF FERNDALE

MUNICIPAL CODE. SUBSEQUENT STANDARDS

BARRETT ROAD BUSINESS PARK" HAVE BEEN

03/21/24



**PUBLIC WORKS DEPARTMENT** 

# COVER SHEET

BARRETT ROAD BUSINESS PARK BARRETT ROAD, FERNDALE, WA A PORTION OF SECTION 28. TOWNSHIP 39N. RANGE 2E. W.M.



#### **GENERAL REQUIREMENTS:**

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE "STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" (WSDOT SPECS.), THE CITY OF FERNDALE DEVELOPMENT STANDARDS (COFDS) AND THE 2005 VERSION OF THE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (DOE MANUAL). IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- THE CONTRACTOR MUST HAVE A FULL SET OF CITY CONTRACT DOCUMENTS ON THE SITE WHENEVER CONSTRUCTION IS IN
- CONSTRUCTION NOISE SHALL BE LIMITED TO BETWEEN 7 a.m. TO 8 p.m., MONDAY THROUGH SATURDAY. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE
- ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING IN CONFORMANCE WITH THE EROSION & SEDIMENTATION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE
- SWPPP SHALL BE ONSITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND/OR WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC
- WORKS DEPARTMENT AND THE PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CITY WILL SCHEDULE THE MEETING. ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT, REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK IDENTIFIED ON THE PLANS, BOTH PUBLIC AND PRIVATE. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOW-
- A. PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES. B. CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES. C. PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH WITHIN ROAD RIGHTS OF WAY OR IN WATERLINE
- EASEMENT TO BE DEDICATED TO THE CITY OF FERNDALE. D. PLACING OR BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY, IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE, OR OTHER PUBLICLY SHARED FACILITIES. E. GRADING OF PUBLIC OR PRIVATE ROADWAY AT:
- . COMPLETION OF EXCAVATION TO SUBGRADE 2. COMPLETION OF BALLAST COURSE PLACEMENT 3. COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT F. POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.
- G. ASPHALT PAVING IN PROGRESS IN PUBLIC ROADWAY. H. OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT. I. END OF MAINTENANCE PERIOD
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO PERFORMING THE WORK. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23- TRAFFIC CONTROL, SHALL
- THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATION FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER
- AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT. AS-BUILT DATA SHALL BE PROVIDED TO THE CITY OF FERNDALE UPON COMPLETION OF CONSTRUCTION AND PROVIDED IN CITY OF FERNDALE DATUM - VERTICAL (NGVD 29) AND HORIZONTAL (NAD 83/91). CONTACT THE CITY FOR MORE INFORMATION ON SUBMITTAL REQUIREMENTS.
- POT HOLING PUBLIC UTILITIES IS REQUIRED PRIOR TO CONSTRUCTION TO INSURE CITY UTILITY REQUIREMENTS CAN BE MET. AS-BUILT INFORMATION ON THE CITY'S DATA BASE IS NOT ALWAYS ACCURATE. THE CITY WILL NOT BE HELD RESPONSIBLE FOR CONTRACTOR NEGLIGENCE IN THIS REGARD THAT MAY RESULT IN HIGHER CONSTRUCTION COSTS OR LIMITED OPTION FOR MODIFICATION.

#### **UNDERGROUND UTILITIES CONSTRUCTION:**

- A. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, WATER SERVICE TAPS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINE). VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES AND METERS, VALVES AND HYDRANTS. CALL THE PROJECT ENGINEER AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE
- B. THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA: . NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
- ii. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF iii. TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.
- iv. WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES. UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS. ALL UTILITY TRENCHES IN THE RIGHT OF WAY SHALL BE BACKFILLED WITH BANK RUN GRAVEL CAPPED WITH 5/8-INCH MINUS WELL
- TESTING OF NEW WATER LINES, STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN

F. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY IN LIFTS NOT TO EXCEED 24 INCHES WITH A "HOE PACK,

- OR 8 INCHES WITH HAND-OPERATED COMPACTION." G. OPEN CUTTING OF EXISTING ROADWAYS IS ONLY ALLOWED AS APPROVED AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH THE FERNDALE STANDARD TRENCH DETAIL(S). ALL UTILITY TRENCHES UNDERNEATH AN EXISTING ROADWAY SHALL BE BACKFILLED WITH 150 PSI CONTROLLED DENSITY FILL
- H. NO PART OF THE DRAINAGE SYSTEM MAY BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY INSPECTOR. I. A MINIMUM OF 5-FOOT SEPARATION IS REQUIRED BETWEEN THE WET UTILITIES (WATER, SEWER, STORM) SHOWN ON THE PLANS AND THE DRY UTILITIES (GAS, POWER, CABLE AND POWER) THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.

- A. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UN-COMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.
- B. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER. UNSUITABLE MATERIAL FOUND AND NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE
- ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL. D. THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PRIOR TO PAVING.

#### BASE COURSES AND SURFACING:

GRAVEL BASES AND BALLAST MATERIAL GRADATION SHALL MEET WSDOT STANDARD SPECIFICATIONS. BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY. THE GRADED AND COMPACTED SURFACE OF THE CRUSHED SURFACING TOP COURSE SHALL BE WITHIN ? INCH OF FINISHED GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL AND COMPACTION TESTING. PRIOR TO IMPORTING OF MATERIAL FOR

BASE AND CRUSHED SURFACING TOP COURSE THE CONTRACTOR SHALL PROVIDE EVIDENCE OF SATISFACTORY PASSING GRADING AND

#### STORM DRAINGAGE:

- 1. THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF STORM DRAIN IMPROVEMENTS: CATCH BASINS TYPE 1, 1L OR 2 WSDOT STD. DETAILS B-5.20, B-5.40 OR B-10.20 "RESIDENTIAL SERVICE LINE" COFSD ST-7 (CITY OF FERNDALE STD DETAIL)
- COFSD ST-16 (CITY OF FERNDALE STD DETAIL) CATCH BASINS 2. STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP); ALL OTHER STORM SEWER PIPE SHALL BE PVC.
- 3. ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- 4. CONTROL DENSITY FILL SHALL BE USED IN AREAS WHERE LESS THAN 18" OF COVER IS MAINTAINED OVER THE PROPOSED STORM
- PIPES (PIPE IS IN ROAD BASE SECTION), AS SHOWN IN THE PLANS. DUCTILE IRON PIPE MAY BE USED FOR STORM PIPES WITH LESS THAN 24" OF COVER IF APPROVED BY THE CITY.
- 5. COVER OVER PIPES SHALL BE MAINTAINED DURING CONSTRUCTION. DEPTH OF COVER REQUIRED SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS AND WILL VARY WITH THE VEHICLE LOADS TRAVELING OVER THE PIPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR DAMAGE TO PIPE DURING CONSTRUCTION ACTIVITIES.
- 6. AT THE END OF ALL SITE CONSTRUCTION, THE CONTRACTOR SHALL CLEAN ALL DEBRIS FROM CATCH BASINS AND STORMWATER CONVEYANCES. DEBRIS SHALL NOT BE ALLOWED TO ENTER STREAMS OR OFF-SITE STORMWATER SYSTEMS.
- POSITIVE LOT DRAINS PER STANDARD DETAIL ST-16.

#### **WATER:**

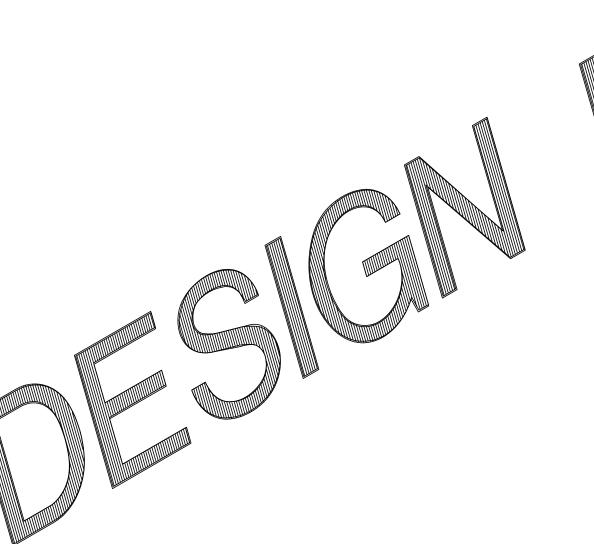
- 1. THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING WATER SUPPLY SYSTEM IMPROVEMENTS:
  - TRENCH BACKFILL COFSD W-11 FIRF HYDRANT ASSEMBLY COFSD W-1 THRUST BLOCKING COFSD W-2, W-3 & W-4
- 2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSDOT STANDARD SPECIFICATIONS. ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, MINIMUM THICKNESS CLASS 50, PER AWWA STANDARDS H3-71 AND C151-71, WITH
- CEMENT LINING PER AWWA STANDARD C104-71. MATERIAL FOR FITTINGS SUCH AS CROSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J.,
- FLANGED OR PUSH-ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71. CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-09.3(21) OF THE WASHINGTON STATE DEPARTMENT OF
- TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION. NO PRE-CAST BLOCKS ARE ALLOWED. CONNECTIONS TO EXISTING WATER MAINS - THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTION 7-09.3(23) AND SECTION 7-09.3(24)OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION -CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 250 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE CITY OF FERNDALE LABORATORY SHALL CONDUCT ALL DISINFECTION TESTS AND BACTERIOLOGICAL TESTS. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL STREET RIGHTS-OF-WAY, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPES SHALL HAVE A MINIMUM COVER OF 36". 10. ALL VALVES SHALL BE EITHER GATE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST IRON VALVE BOXES. GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 10 INCHES IN DIAMETER. SHORT-BODY VALVES SUITABLE FOR A NON-SHOCK SHUT-OFF PRESSURE OF 130 PSI AND SUITABLE FOR DIRECT BURIAL ARE SPECIFIED. GATE VALVES SHALL BE RESILIEN!!! SEATED IRON-BODY, FULL-BRONZE MOUNTED VALVES CONFORMING TO AWWA C509 AND SUITABLE FOR SERVICE WITH THE TYPE CLASS OF PIPE USED. ALL VALVES SHALL HAVE NON-RISING STEMS AND SHALL OPEN COUNTERCLOCKWISE AND SHALL A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS. VALVE MARKERS SHALL BE LOCATED OUTBALL BE PAVEMENT SECTIONS
- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE COFDS W-5. 12. FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO COFDS- SD W-1 (WSDOT B-19) AND THE FOLIA WIND STANDARD
- A. FIRE HYDRANTS SHALL HAVE TWO INDIVIDUALLY VALVED 2-1/2" PORTS AND ONE 5-1/4" MANY VALVE OPEN PUMPER NOZZLE AND A 5" STORZ PORT WITH CAP AND AIRCRAFT CABLE SHALL BE SUPPLY DED. IOWA OR M.H. 929T HYDRANTS. FIRE HYDRANTS SHALL HAVE THE STORZ PORT FACING THE REQUIRED ACCESS AND THE
- SET A MAXIMUM 2" ABOVE GRADE LEVEL OF THE REQUIRED ACCESS IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VALUE DAMAGE APPROPRIATE CRASH POSTS SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REMAKED ACCESS. CRASH POSTS SHALL BE 4" CEMENT-FILLED PIPE A MIN. OF 3' IN WHITH WITH A MIN. OF 2 WHITE BEACH GRADE. HYDRANT SHUTOFF VALVES SHALL BE LOCATED BETWEEN 5' AND FROM THE WYDRANT.
- UNDERGROUND SUPPLIES TO FIRE HYDRANTS MUST BE WEST CTED. SUCH INSPECTION SHALL INCLUDE VISUAL INSPECTION OF PIPING AND HYDROSTATIC PRESSURE TESTING TO MIN. OF RESULTS A FLOW TEST WILL BE REQUIRED WHEN INSTALLATION IS COMPLETE. FIRE HYDRANTS MUST BE MAINTAINED WHEN DEFECTIVE. HYDRANTS SHALL BE WILL OPERABLE CONSTRUCTION COMMENCES ABOVE GRADE LEVEL.

#### ROAD:

- 1. THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF THE STANDARD STREET SECTION: TYPICAL STREET SECTION PER THESE PLANS
  - PCC CURB AND GUTTER PCC\_SIDEWALKS
  - COFSD R-12 (SEE CONSTRUCTION DOCUMENTS TYPICAL SECTION) PCC CURB RAMPS WSDOT STD. DETAIL F-40.
- ROADWAY EXCAVATION WITHIN THE ROADWAY PRISM SHALL BE CUT TO A UNIFORM GRADE. THE COMPLETED SUBGRADE SURFACE SHALL NOT VARY MORE THAN 0.10-FOOT FROM THE LOWER EDGE OF A 15-FOOT STRAIGHTEDGE PLACED ON THE SUBGRADE PARALLEL TO THE CENTERLINE UNLESS APPROVED BY THE ENGINEER. THE OWNER SHALL PROVIDE TO THE ENGINEER A REPORT FROM A QUALIFIED GEOTECHNICAL FIRM CERTIFYING THE COMPACTION OF THE GRAVEL BASE UNDER ALL PAVING AREAS.
- ASPHALT CONCRETE PAVEMENT SHALL BE CLASS "B" MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 5-04, EXCEPT AS MODIFIED HEREIN. CONNECTION TO EXISTING PAVEMENT SHALL BE TO A STRAIGHT
- CRUSHED ROCK SURFACING FOR PAVEMENT SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 9-03.9(3);
- BALLAST PER SECTION 9-03.9(1). CEMENT CONCRETE SHALL BE CLASS 3000 (WITH AIR ENTRAINMENT) IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION
- CEMENT CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH CITY STANDARD, DRAWING NO. R-12. CEMENT CONCRETER WAYS SHALL BE 6 INCHES THICK AND CONSTRUCTED WHERE SHOWN ON THE PLANS OR DESIGNATED BY THE
- ENGINEER IN ACCONTAIN ANCE WITH THE CITY STANDARDS, DRAWING NO. R-15. A 2- INCH LATER OF 3/4 INCH DRAIN ROCK SHALL BE USED CEMENT CONCRETE CONTROLLER AND GUTTER SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS OR AS DESIGNED BY THE ENGINEER, IN ORNAMINE WITH WISDOT STANDARDS SPECIFICATIONS, SECTION 8-04 AND CITY OF FERNDALE STANDARDS, DRAWING R-8 AND R-9.
- HANDICAR WANDS SHALL BE CONSTRUCTED PER WSDOT STANDARD PLANS F-40. WHERE NEW CEMENT CONCRETE CURB AND GUTTER IS CONNECT TO WHICH AND GUTTER, ASSURE THAT NO ABRUPT OFFSETS IN LINE OR GRADE SHALL BE CONSTRUCTED WHICH WILL BE UNSIGHTLY OR WHEDE FLOW IN THE GUTTER LINE.
- PAVEMENT: A. SOIL FUNDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
  - B. A TACH WOAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT. ALL PARMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL PROVIDE A SMOOTH
- TRANSITION FROM EXISTING TO PROPOSED PAVING. CONTRACTOR SHALL COLD PLANE PER DIMENSIONS SPECIFIED ON THE PLANS. AND INSTALL A MINIMUM 2-FOOT WIDE PETROTAC PAVING FABRIC, OR EQUIVALENT, OVER JOINT BETWEEN PAVING
- HRU-CURB BASINS AND THRU-CURB INLETS CONFORMING TO THE WSDOT STANDARD SPECIFICATIONS, SECTION 7-05 SHALL BE CONSTRUCTED AT THE LOW POINT OF THE CURB FLOW LINES AND TO THE LOCATIONS, DIMENSIONS, AND DETAILS AS SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER AND CITY STANDARDS, DRAWING NO. R-8.
- TRENCH EXCAVATIONS, BEDDING AND PIPE FOR STORMWATER PIPE LAYING SHALL BE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS, SECTION 7-08.
- STORM SEWER PIPE CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 7-04.
- MATERIAL SHALL BE HANCOR SURE-LOK F477 PIPE OR CITY APPROVED EQUAL. LOTS' STORM DRAIN SERVICE LINE SHALL BE 6" PVC PER
- WSDOT STANDARD SPECIFICATION, SECTION 9-05.1(5) 14. PERFORATED UNDERDRAIN PIPE SHALL MEET THE WSDOT STANDARD SPECIFICATION 7-01.3(2)

#### SANITARY SEWER SYSTEMS:

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARD SPECIFICATIONS AND DETAILS, A.P.W.A. STANDARD SPECIFICATIONS, AND WSDOT STANDARD SPECIFICATIONS, MOST RECENT EDITIONS. SANITARY SEWER SYSTEM INSTALLATION,
- BOTH PUBLIC AND PRIVATE, IS SUBJECT TO CITY REVIEW AND APPROVAL ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDALE. 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE PERFORMED IN THE PRESENCE
- AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE. SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PVC PIPE (SDR-35) CONFORMING TO THE PROVISIONS OF ASTM D 3034
- AND INSTALLED TO CITY SPECIFICATIONS SANITARY SEWER PIPE BEDDING SHALL BE PEA GRAVEL PER COFSD SS-1. ALL TRENCHES SHALL BE BACKFILLED WITH CLASS B BANK RUN GRAVEL WITHIN CITY RIGHT OF WAY AND TRAVELED WAYS OUTSIDE OF RIGHT OF WAY (ACCESS EASEMENTS) AND SHALL BE
- COMPACTED TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR. USE OF SUITABLE NATIVE BACKFILL OUTSIDE OF TRAVELED WAY SHALL BE SUBJECT TO APPROVAL BY THE CITY 5. ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS AND SHALL BE PRE-CHANNELED. MANHOLE CONES
- ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW. ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE
- SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4".
- CONTRACTOR SHALL EXTEND SEWER STUBS 5 FT BEYOND UTILITY CORRIDOR OR 15 FEET BEYOND RIGHT-OF-WAY LINE. EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. PVC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" PAINTED GREEN AND STENCILED WITH THE WORD "SEWER" AND THE PIPE INVERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.



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LDES, INC. **5160 INDUSTRIAL PL. #108** FERNDALE, WA 98248 PHONE 360-383-0620 FAX 360-383-0639

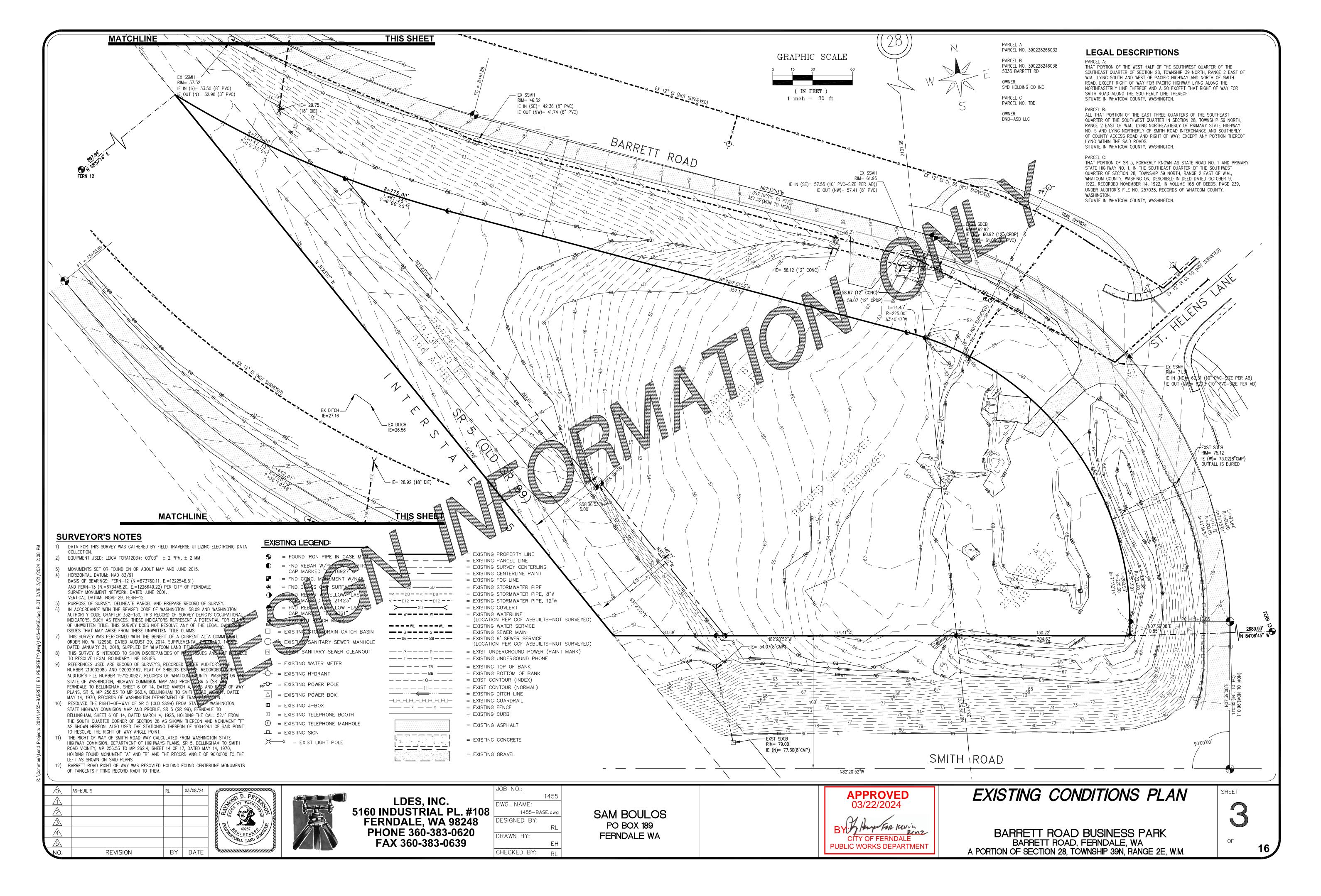
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SAM BOULOS PO BOX 189 **FERNDALE WA** 

**APPROVED** 

### CITY OF FERNDALE GENERAL NOTES TESC NOTES & DETAILS

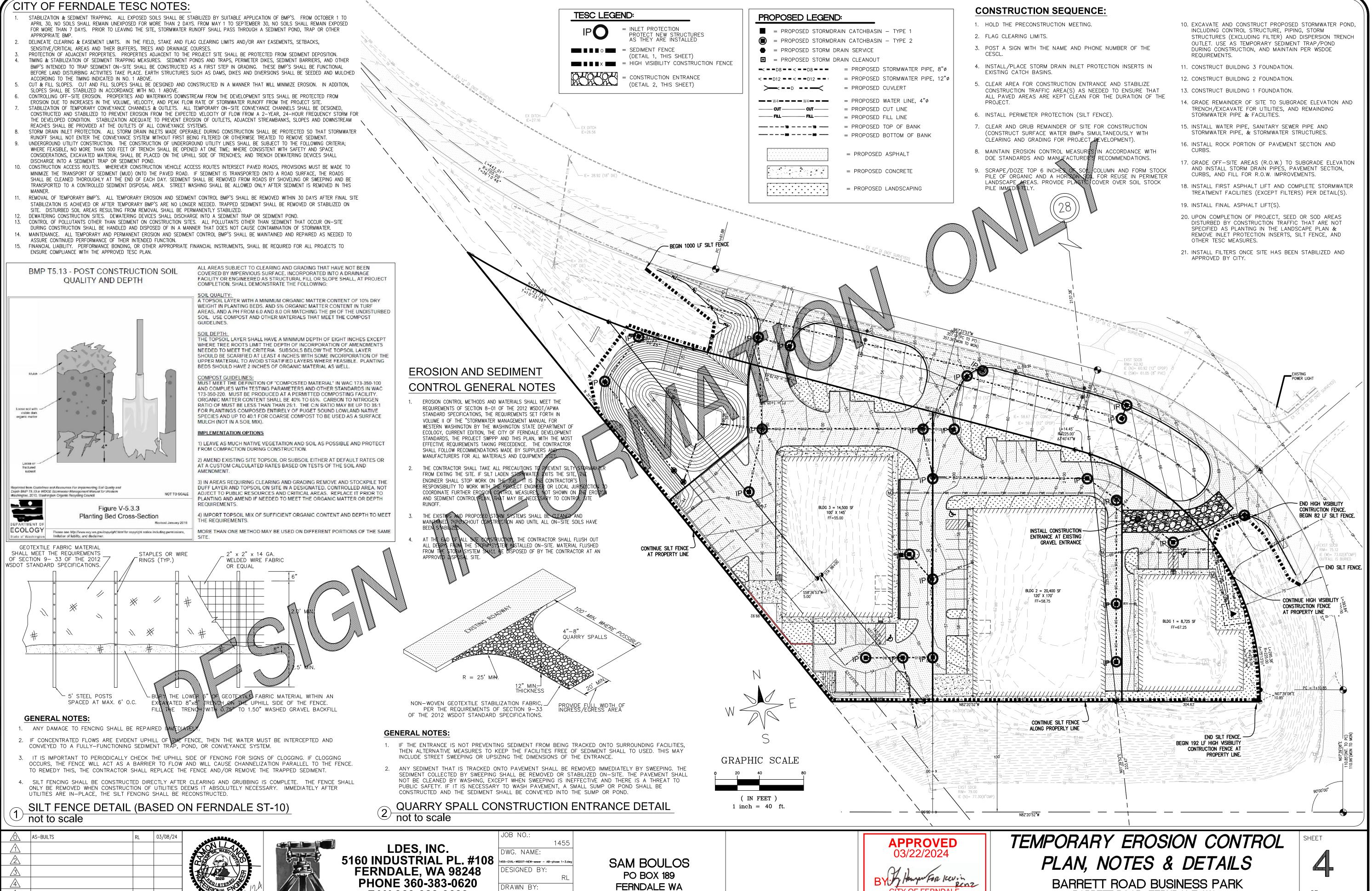
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BARRETT ROAD, FERNDALE, WA

A PORTION OF SECTION 28, TOWNSHIP 39N, RANGE 2E, W.M.

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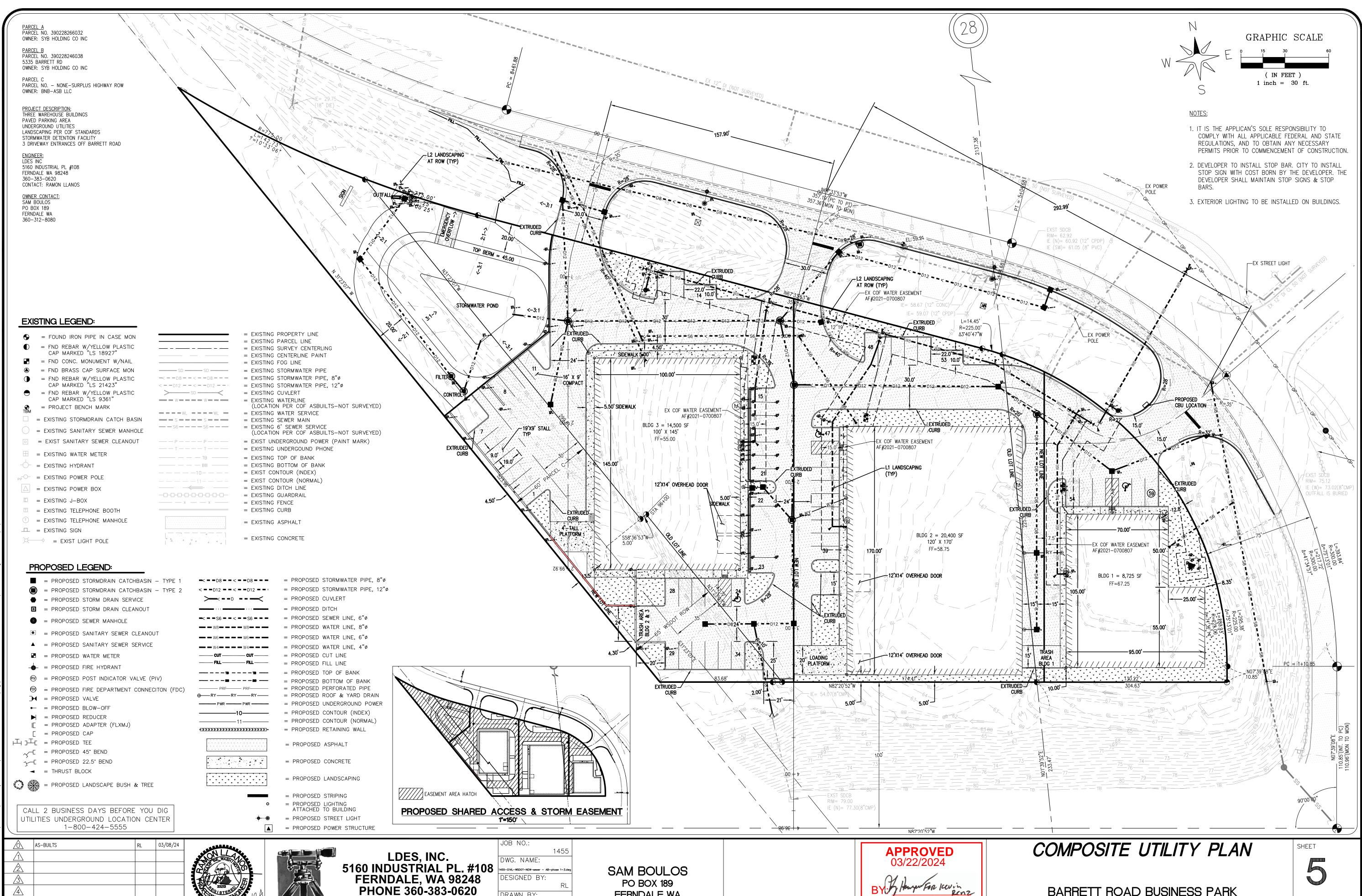
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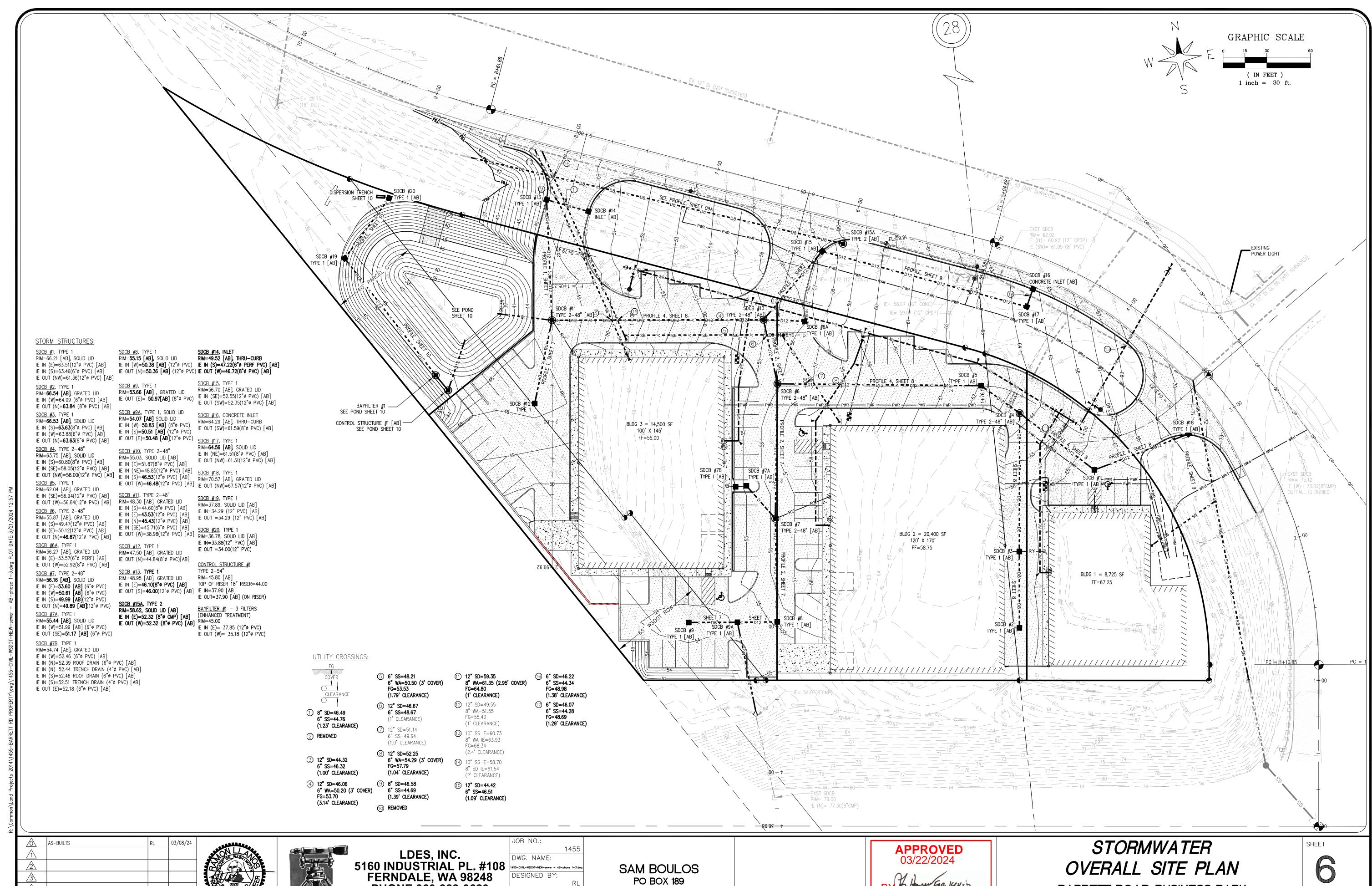
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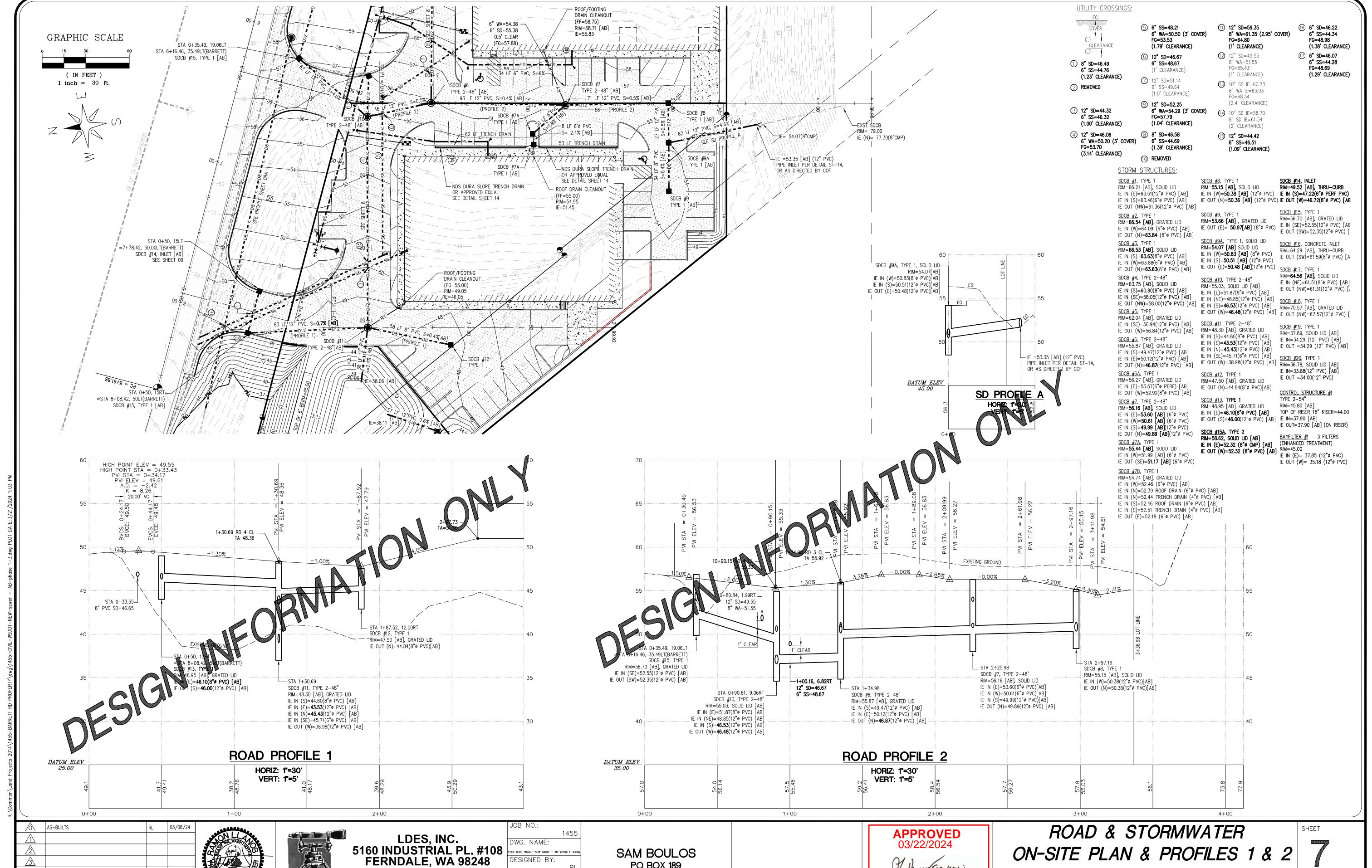
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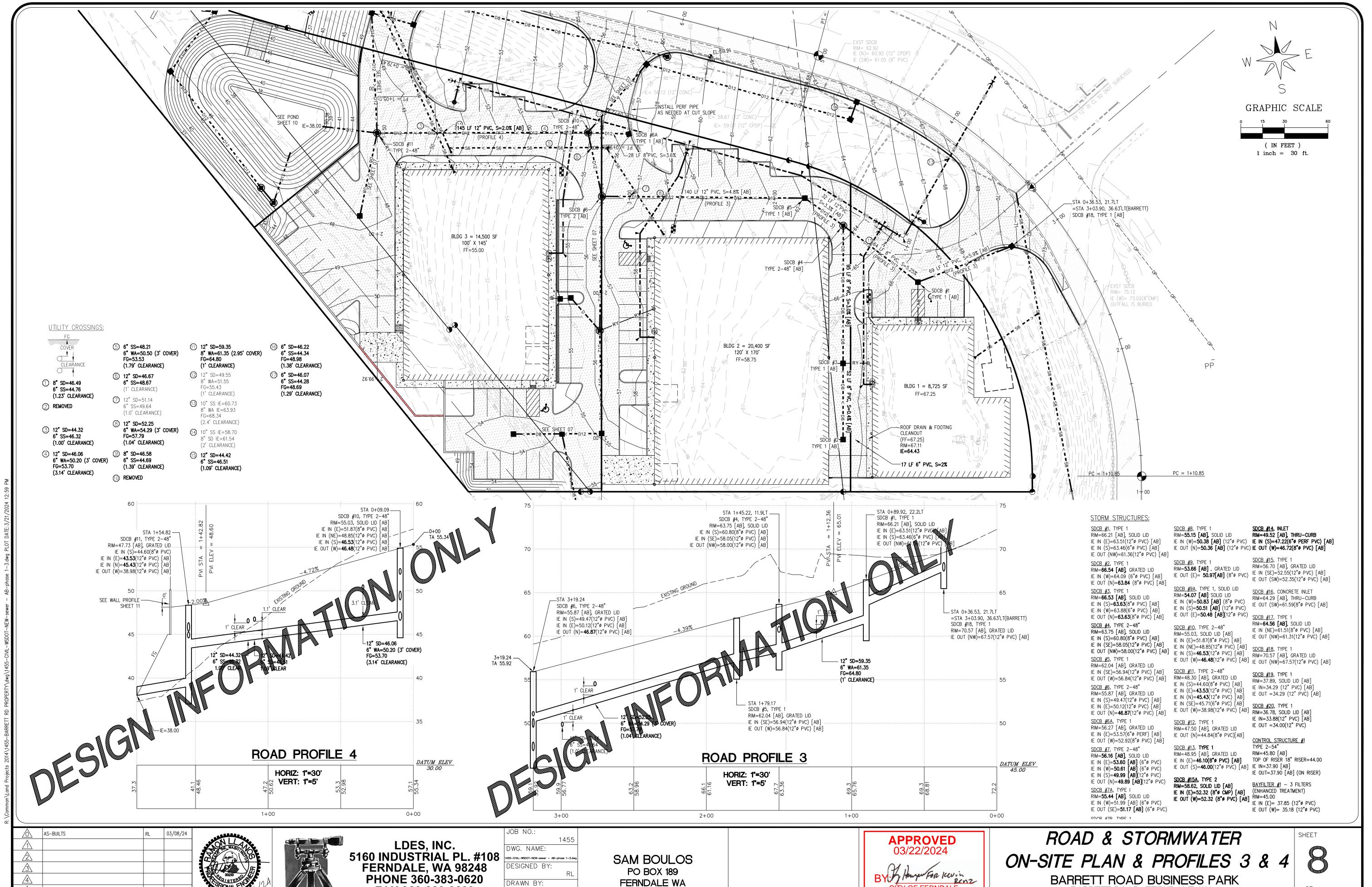
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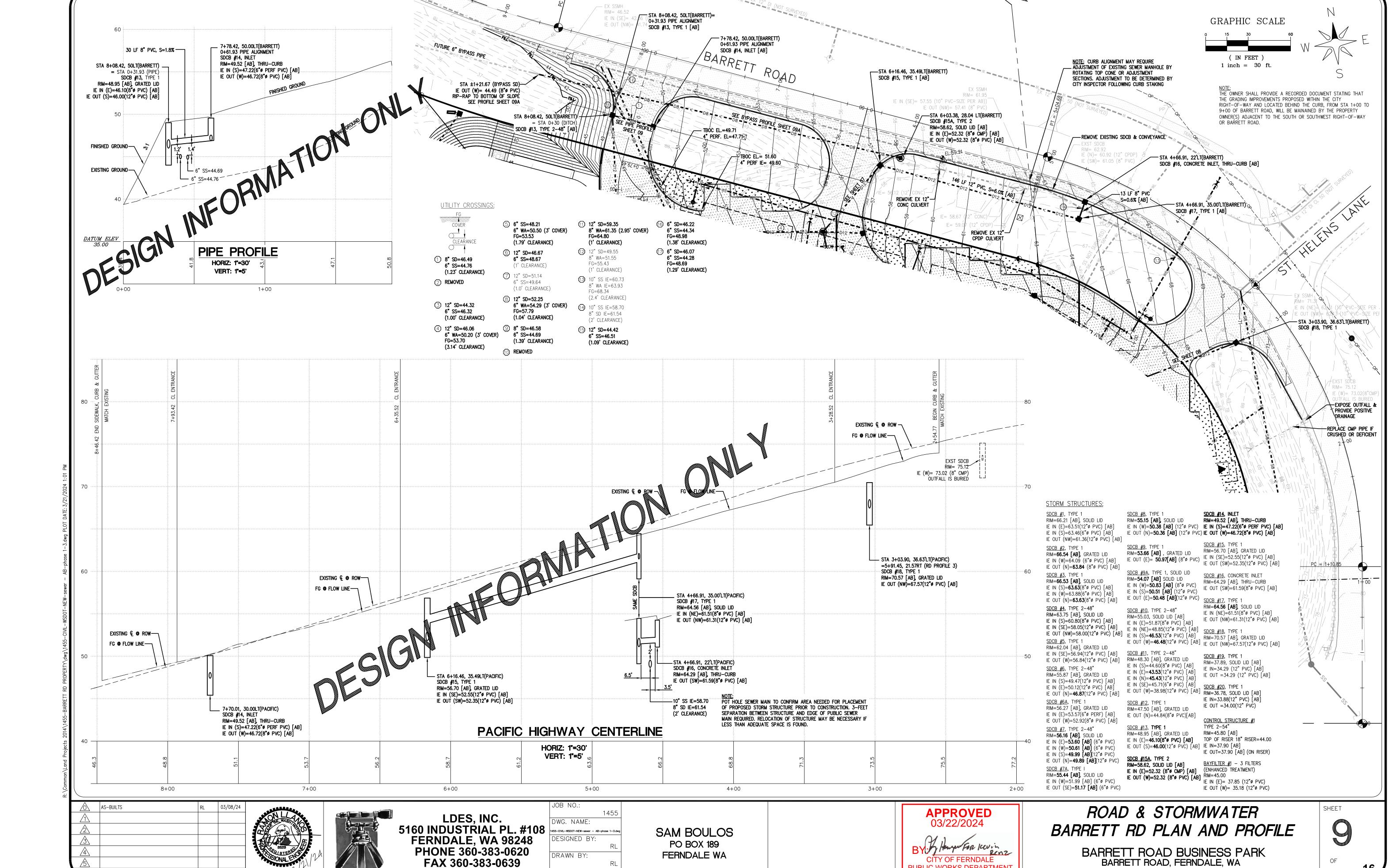
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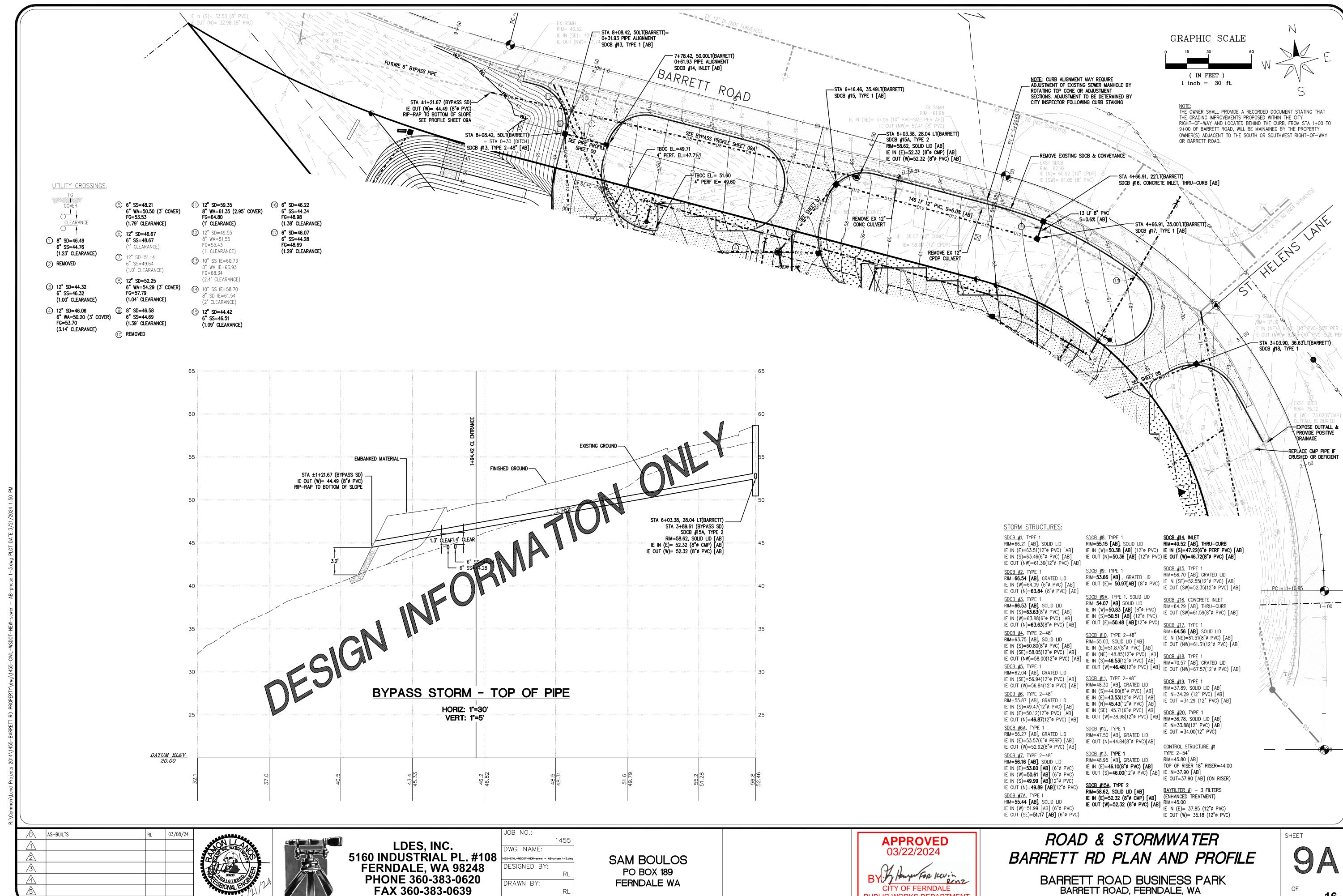
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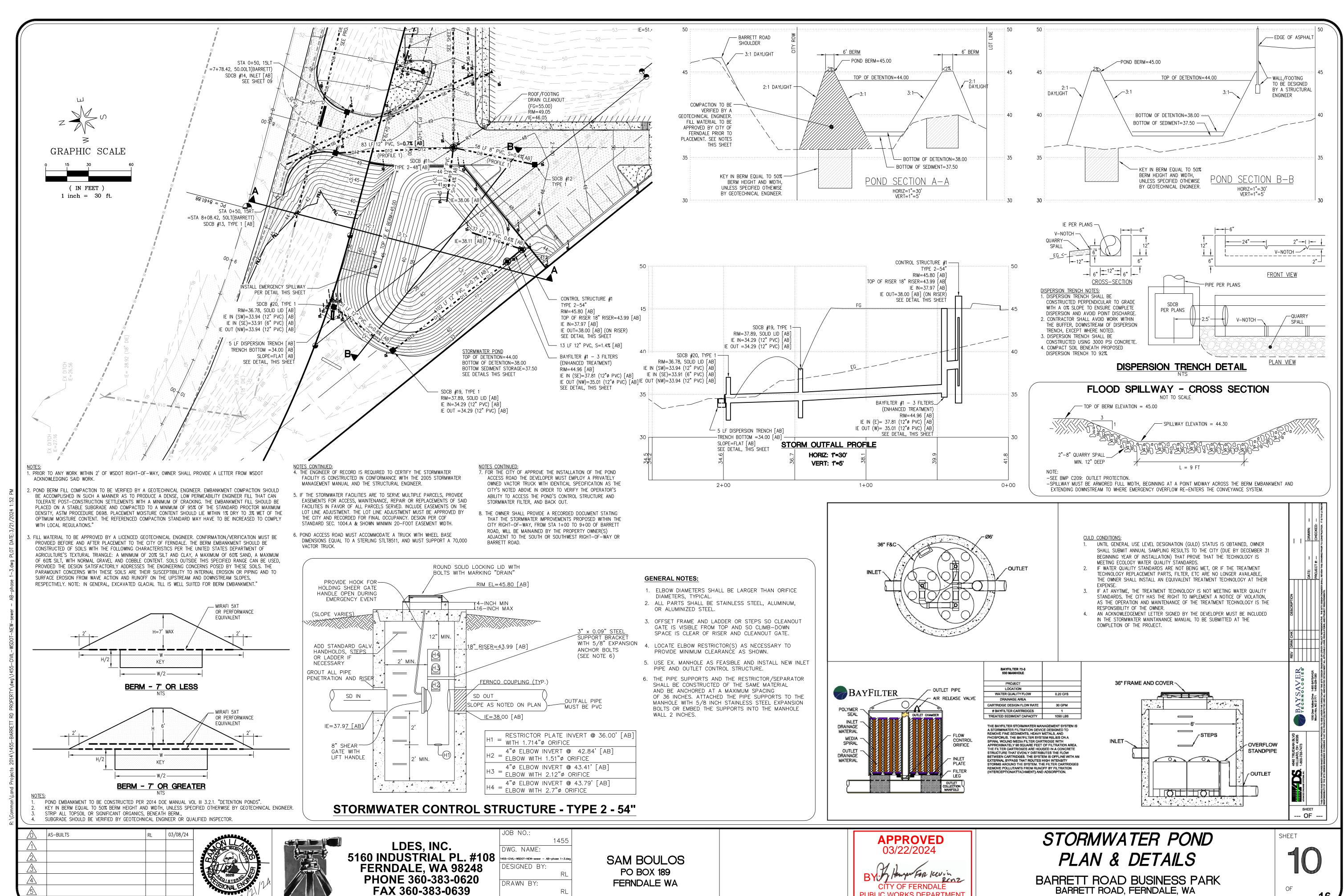


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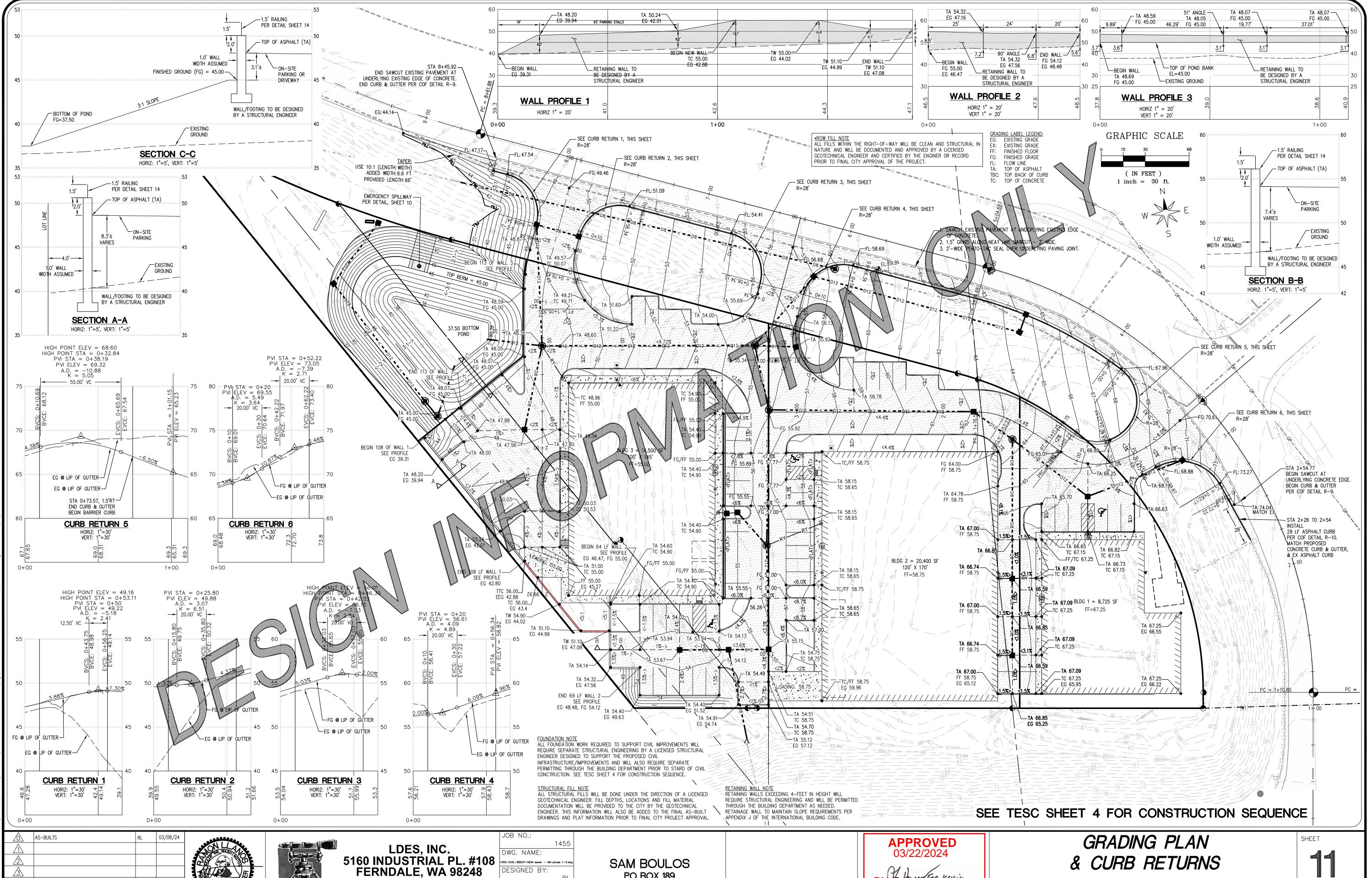


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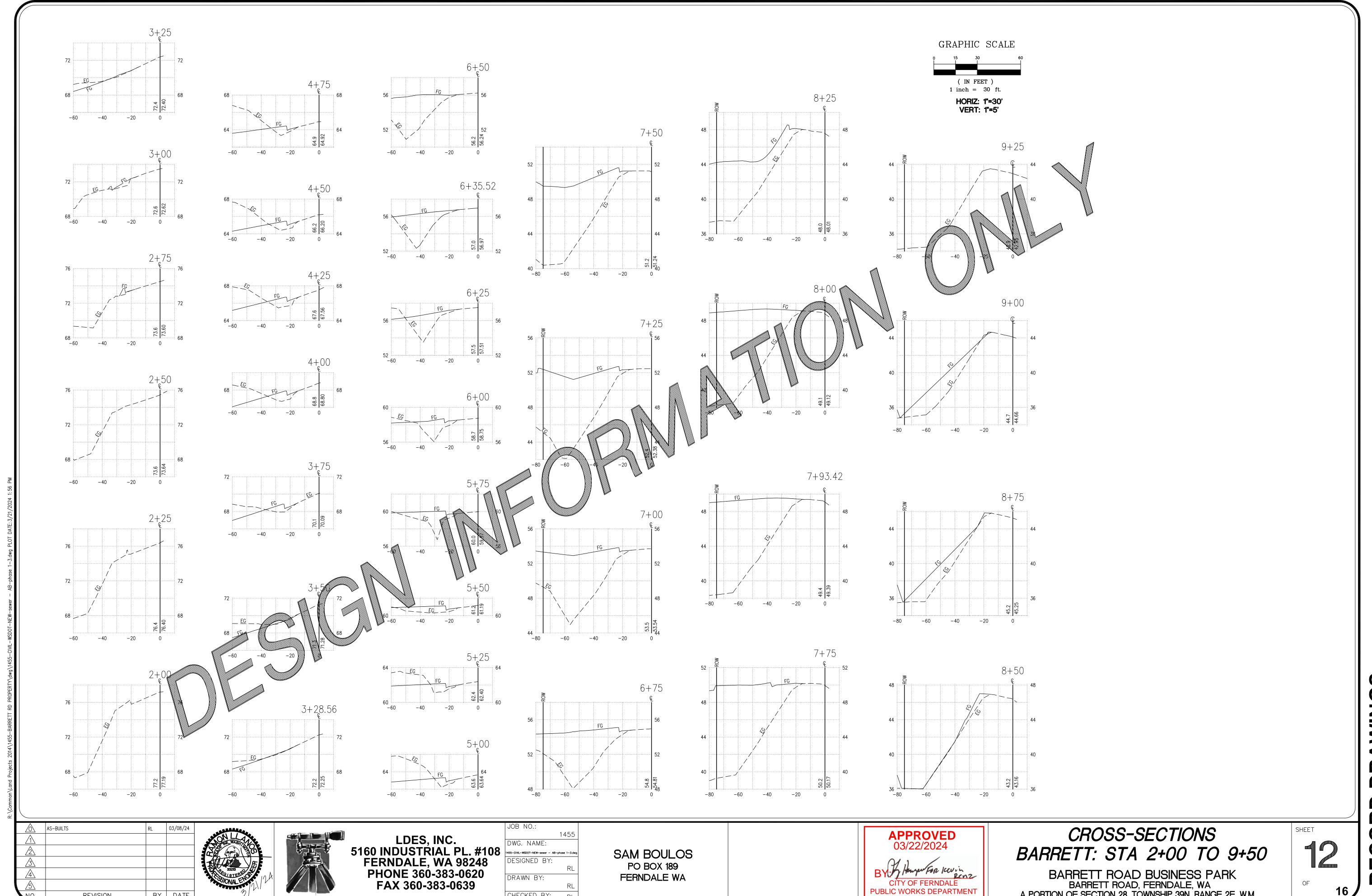
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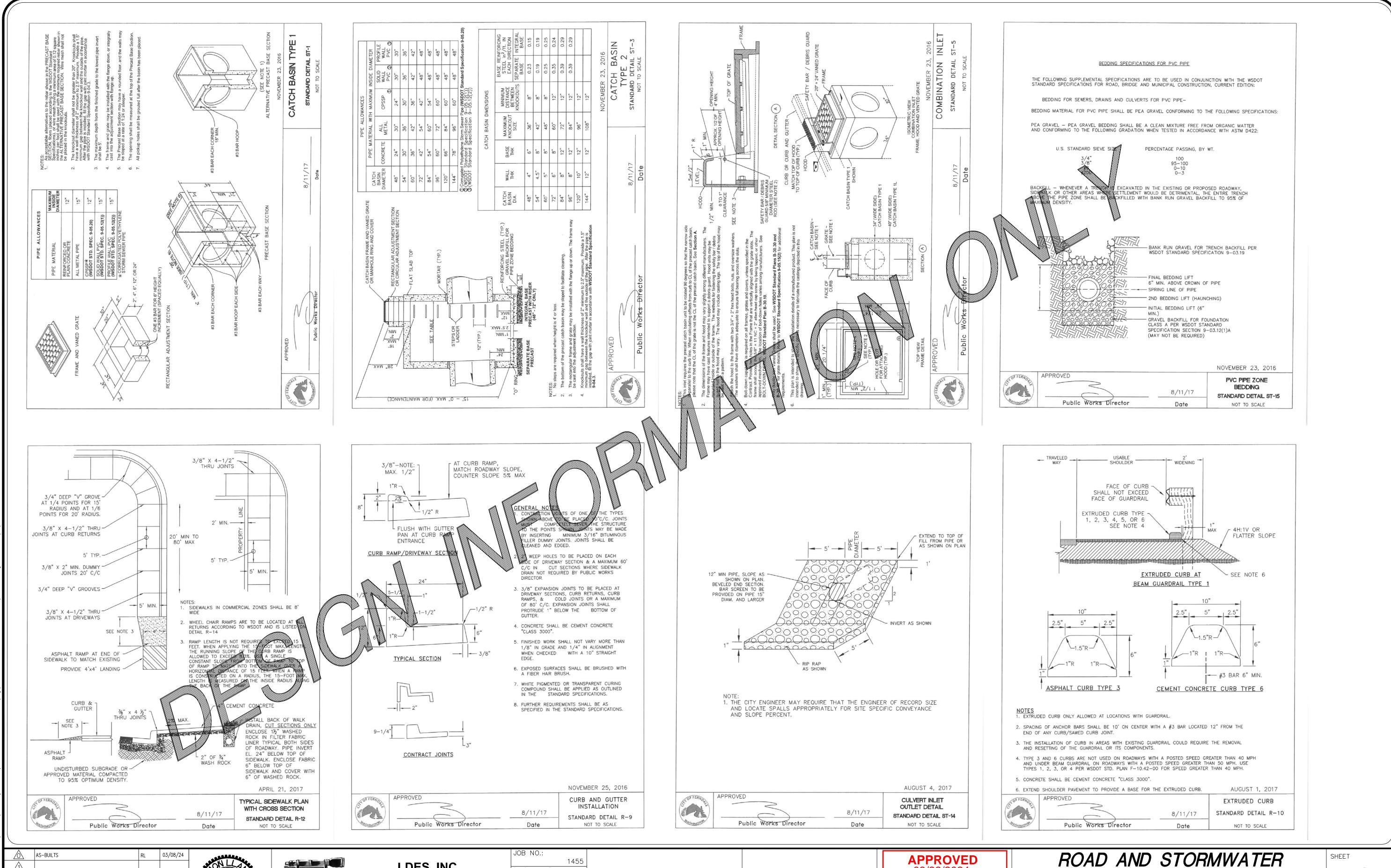
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03/22/2024

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TYPICAL DETAILS

BARRETT ROAD BUSINESS PARK

BARRETT ROAD, FERNDALE, WA

A PORTION OF SECTION 28, TOWNSHIP 39N, RANGE 2E, W.M.

LDES, INC.

FERNDALE, WA 98248

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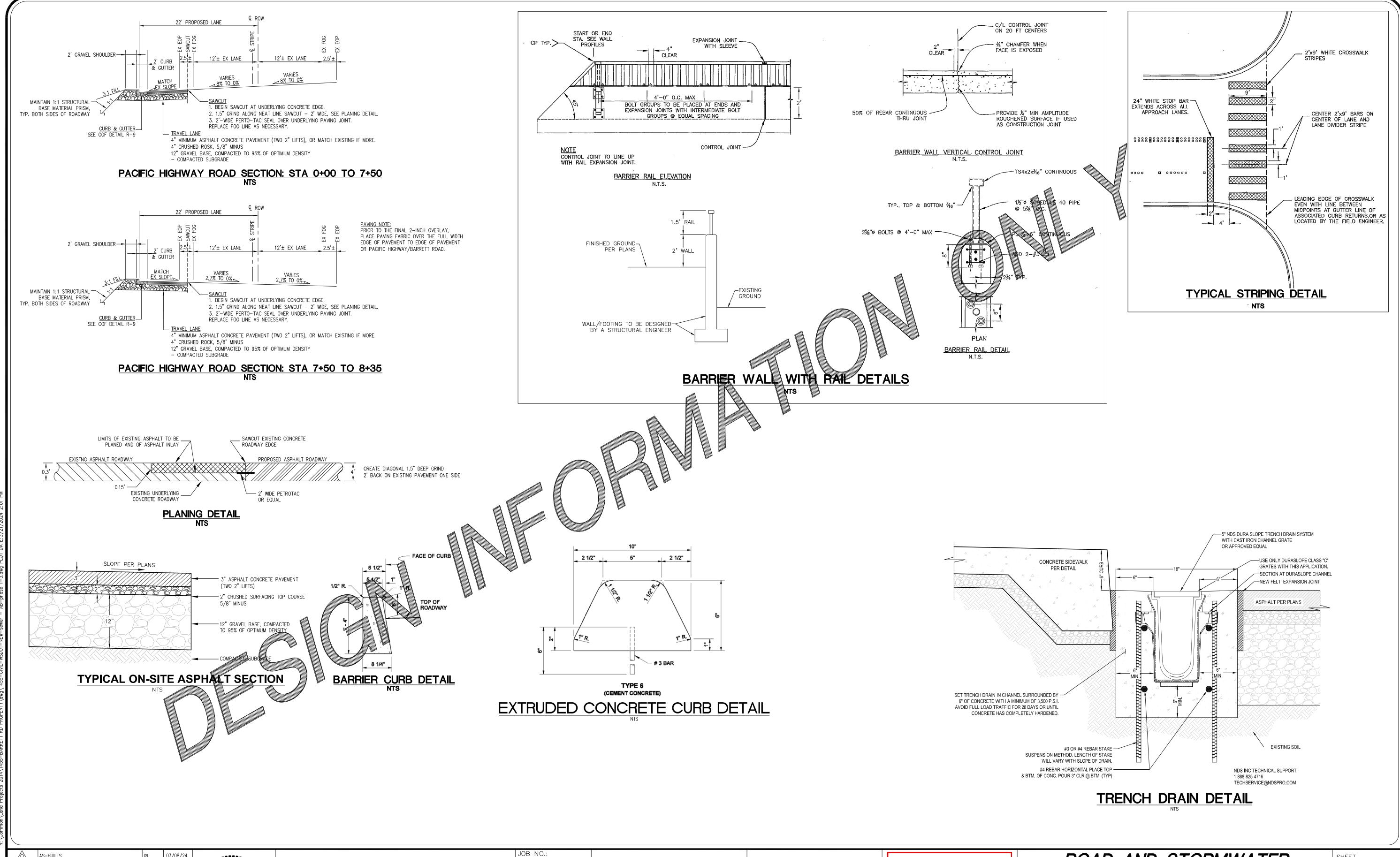
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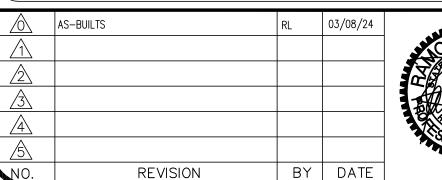
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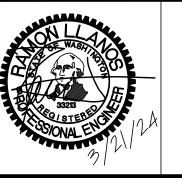
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LDES, INC.
5160 INDUSTRIAL PL. #108
FERNDALE, WA 98248
PHONE 360-383-0620

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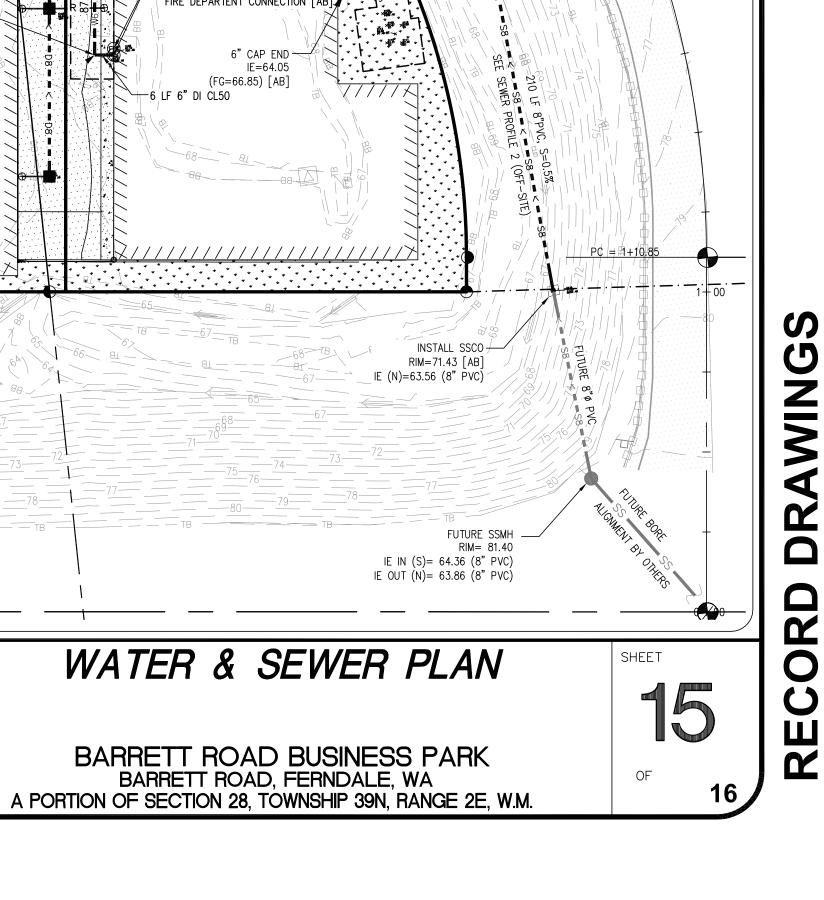
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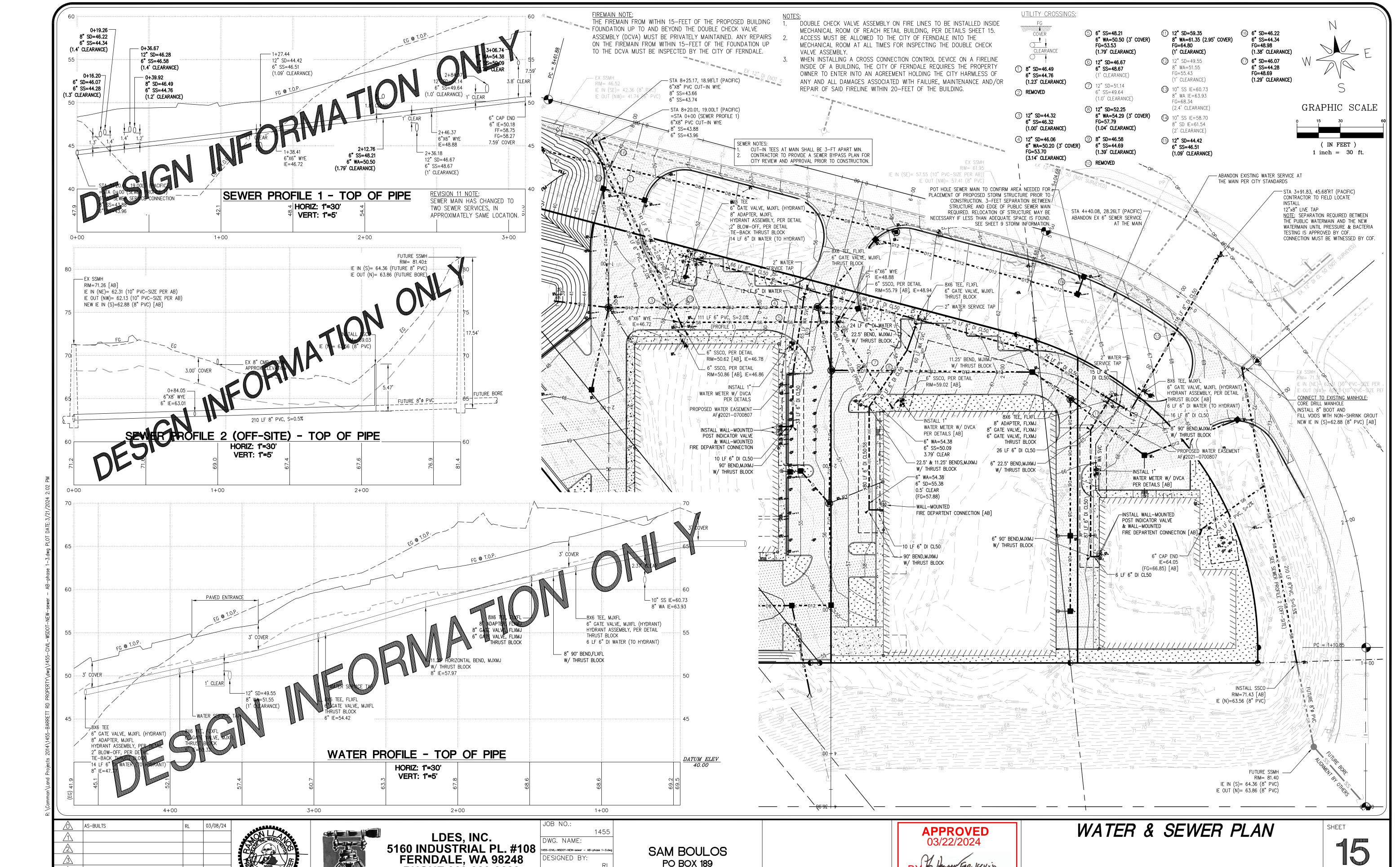
# ROAD AND STORMWATER TYPICAL DETAILS

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BARRETT ROAD BUSINESS PARK

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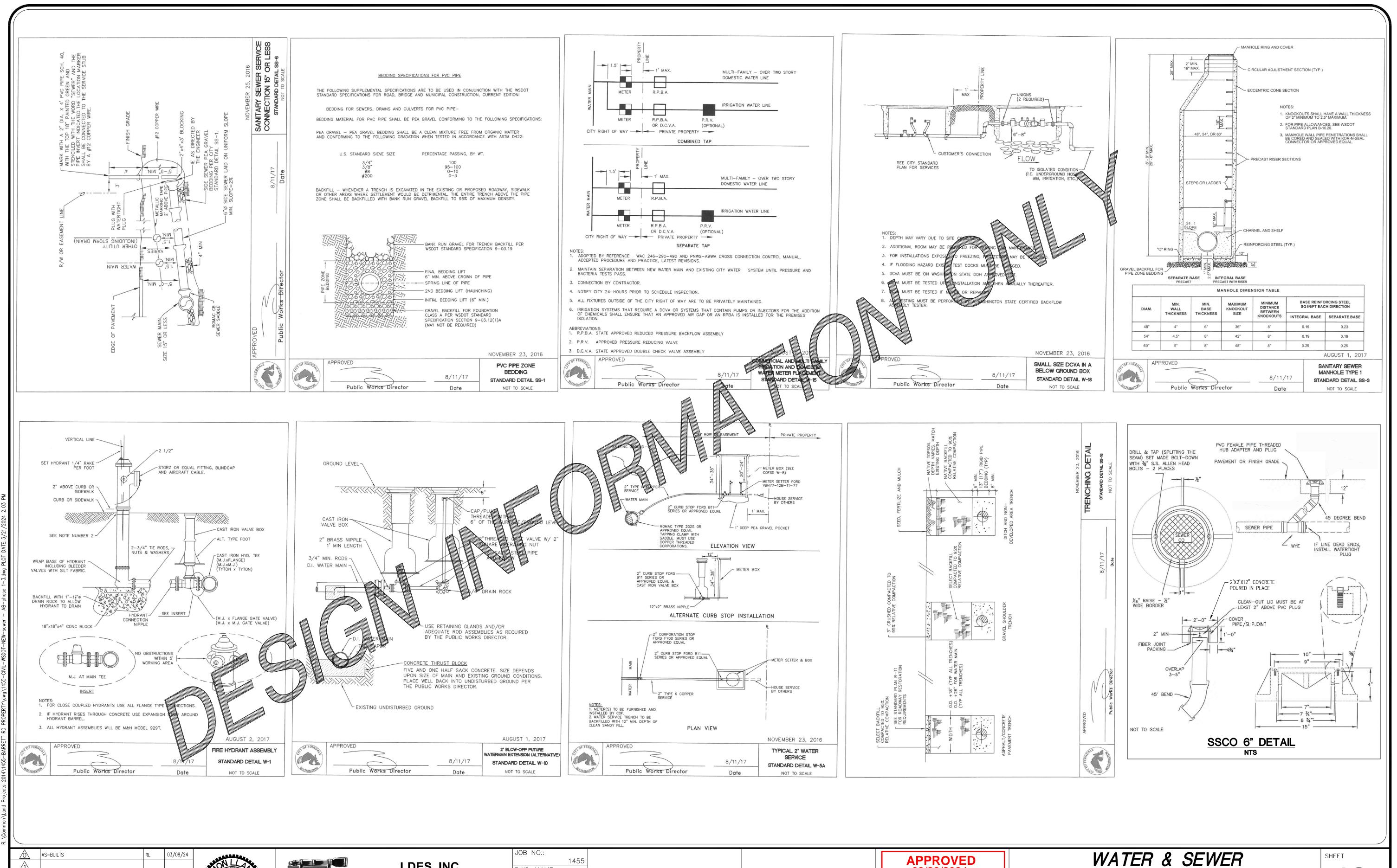
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