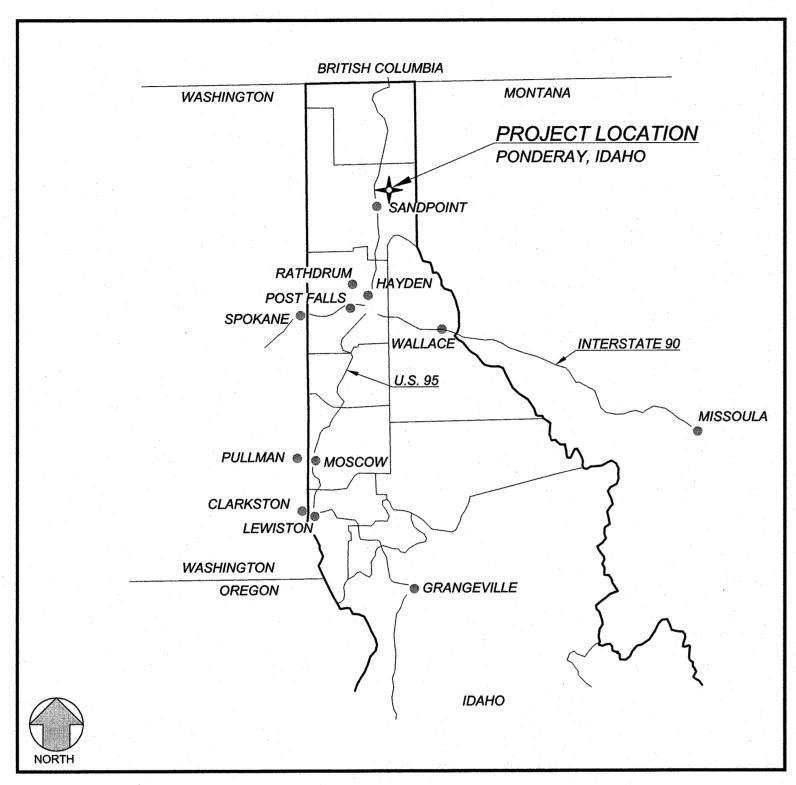
ALDER CREEK TOWNHOMES

LOTS 1 & 2, BLOCK 1, ALDER CREEK CONSTRUCTION DRAWINGS AND SPECIFICATIONS

CITY OF PONDERAY, BONNER COUNTY, IDAHO



NTS

PROJECT DEVELOPER

CRYSTAL CREEK, LLC P.O. BOX 949 HAYDEN, IDAHO 83835 PH: (208) 765-5059

PROJECT ENGINEER

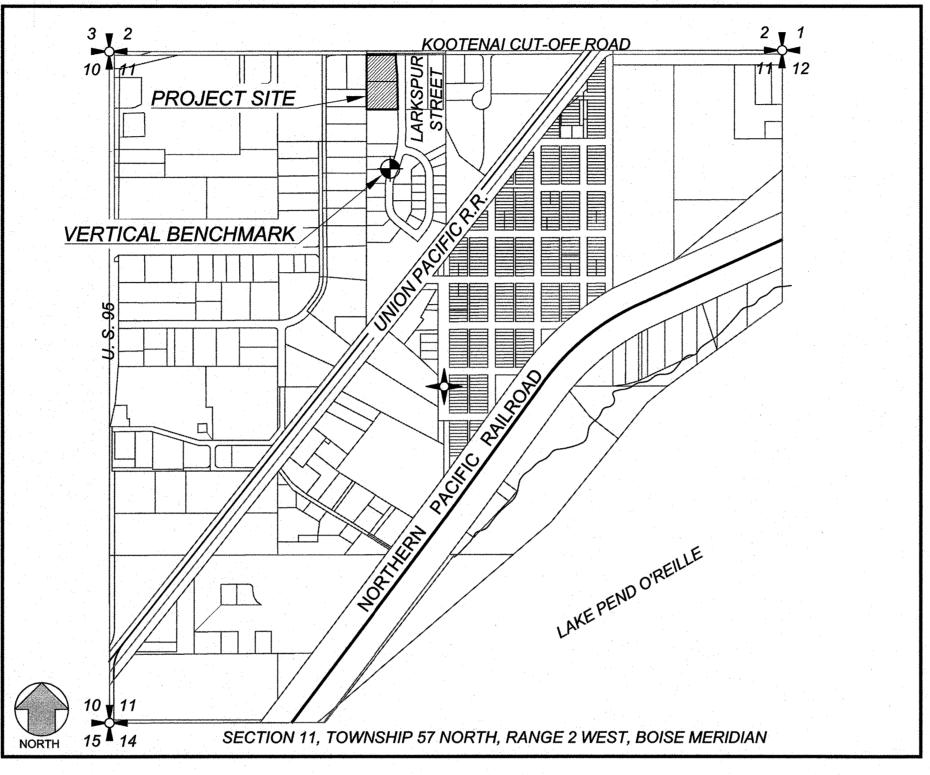
LAKE CITY ENGINEERING, INC. 126 E. POPLAR AVENUE COEUR D'ALENE, IDAHO 83814 PH: (208) 676-0230

PROJECT ARCHITECT

dZign group Architecture, LLP 21 COMMERCE DRIVE, SUITE A HAYDEN, IDAHO 83835 PH: (208) 699-4977

PROJECT SITE

LEGAL DESCRIPTION: LOTS 1 & 2, BLOCK 1, ALDER CREEK CITY OF PONDERAY, BONNER COUNTY, IDAHO



PROJECT LOCATION 1" = 800'

CONTACT INFORMATION

WATER PURVEYOR CITY OF SANDPOINT - PUBLIC WORKS SANDPOINT CITY HALL

1123 LAKE STREET SANDPOINT, IDAHO 83864 PH: (208) 263-3407

SEWER PURVEYOR

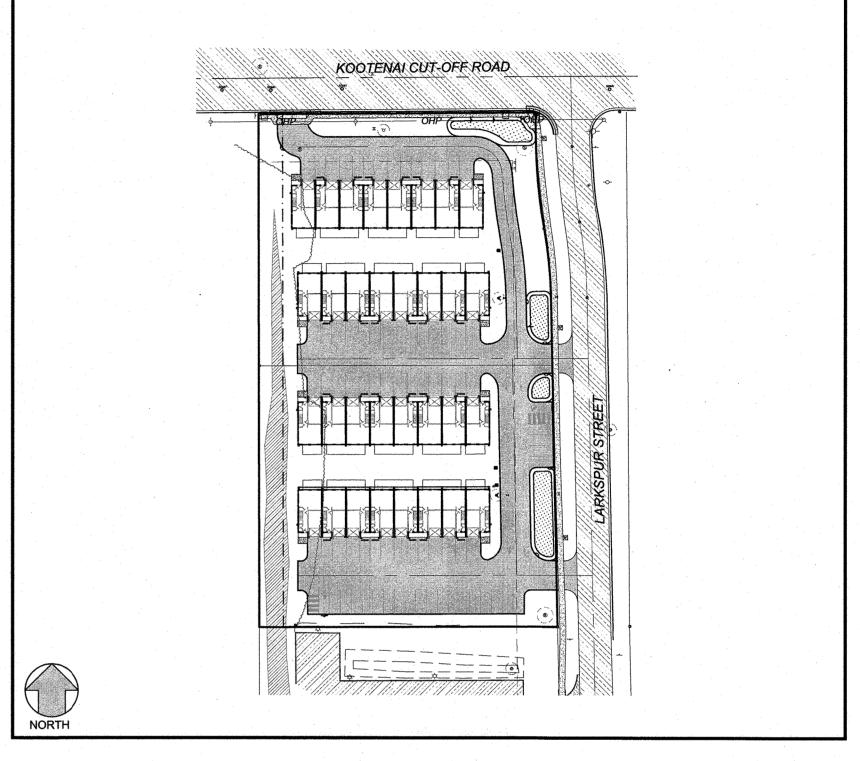
KOOTENAI-PONDERAY SEWER DISTRICT 511 WHISKEY JACK ROAD SANDPOINT, IDAHO 83864 PH: (208) 263-0229

STREET AND STORMWATER PURVEYOR

INDEPENDENT HIGHWAY DISTRICT 1805 BALDY MOUNTAIN ROAD SANDPOINT, IDAHO 83864 PH: (208) 263-8131

VERTICAL BENCHMARK

1/2" REBAR WITH BLUE PLASTIC CAP MARKED "LCE CONTROL" ELEV: 2129.02 (NAVD 88) (OPUS CORRECTED ELEVATION)

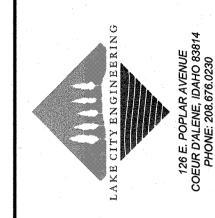


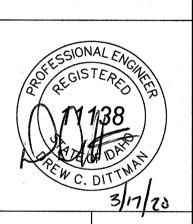
PROJECT SITE 1" = 80'

INDEX OF SHEETS

- TITLE SHEET
- EXISTING CONDITIONS, DEMOLITION AND ESC PLAN
- STORMWATER, GRADING AND SITE PLAN
- UTILITY PLAN
- LANDSCAPE, SIGNAGE, AND STRIPING PLAN
- PROJECT SPECIFICATIONS
- WATER DETAILS AND NOTES, STORMWATER CALCULATIONS
- PROJECT DETAILS

	L DATE		-		,	
	INITIAL					
REVISION BLOCK	NO. DESCRIPTION					





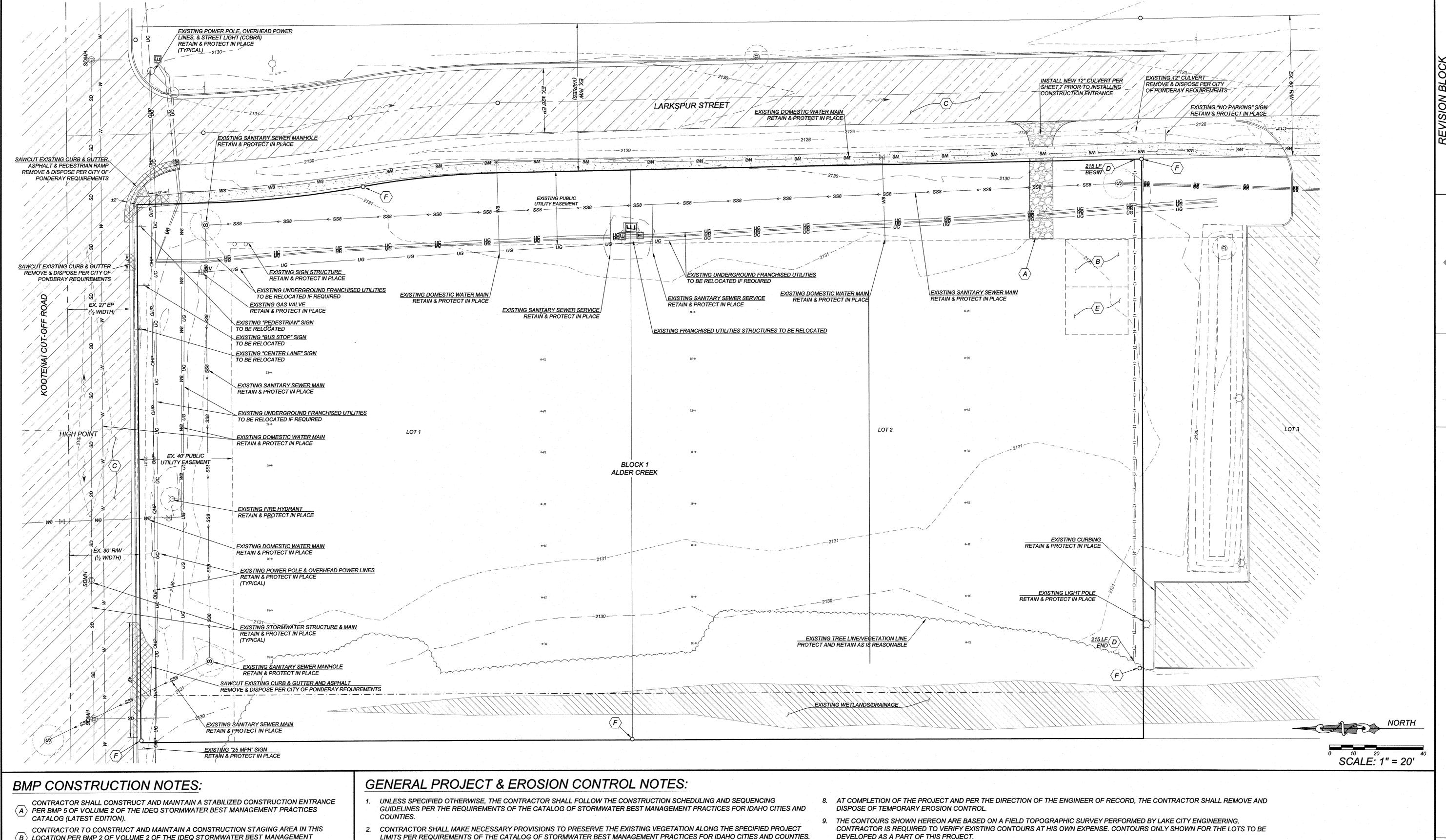
TOWNF REEK

M

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

DESIGNED BY: DRAFTED BY: GDH/SMA 03/16/2020 JOB NO: LCE 19-007

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER CALL TWO BUSINESS DAYS BEFORE YOU DIG



- \langle B angle LOCATION PER BMP 2 OF VOLUME 2 OF THE IDEQ STORMWATER BEST MANAGEMENT PRACTICES CATALOG (LATEST EDITION).
- CONTRACTOR TO KEEP EXISTING ROAD CLEAR AND FREE FROM DIRT, MUD AND OTHER DEBRIS. ROAD SHALL BE SWEPT AND WATERED AS REQUIRED.
- INSTALL SILT FENCE PER BMP 36 OF VOLUME 2 OF THE IDEQ STORMWATER BEST D INSTALL SILT FENCE PER DIVIF SO C. LOZZIII.

 MANAGEMENT PRACTICES CATALOG (LATEST EDITION).
- CONTRACTOR TO CONSTRUCT AND MAINTAIN DESIGNATED WASHOUT FACILITY PER BMP 13 \langle E angle OF VOLUME 2 OF THE IDEQ STORMWATER BEST MANAGEMENT PRACTICES CATALOG (LATEST EDITION) AS SHOWN. COORDINATE LOCATION WITH ENGINEER.

CONSTRUCTION NOTE:

EXISTING SURVEY MONUMENT, RETAIN AND PROTECT. CONTRACTOR RESPONSIBLE FOR \langle F angle REPLACEMENT OF ANY SURVEY MONUMENTS DISTURBED OR DESTROYED DURING CONSTRUCTION.

- CONTRACTOR SHALL CONFINE CLEARING LIMITS TO WITHIN THE SPECIFIED PROJECT LIMITS PER REQUIREMENTS OF THE CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES.
- CONTRACTOR SHALL IMPLEMENT AND MAINTAIN A DUST CONTROL PROGRAM ON A DAILY BASIS, INCLUDING WEEKEND AND HOLIDAYS PER THE REQUIREMENTS OF THE CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES.
- UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO COVER ALL ONSITE MATERIALS AND EQUIPMENT PER THE REQUIREMENTS OF THE CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES.

NO WASHOUT FACILITIES, INCLUDING CONCRETE MATERIAL WASHOUT, SHOWN WITHIN THE SPECIFIED PROJECT LIMITS. THE

PROJECT SHALL NOT REACH ANY SURFACE WATERS OF THE UNITED STATES.

- CONTRACTOR SHALL DIRECT ALL WASHOUT ACTIVITIES TO BE CONDUCTED WITHIN DESIGNATED WASHOUT AREAS TO BE APPROVED BY THE OWNER. WASHOUT WILL NOT BE ALLOWED WITHIN A PUBLIC RIGHT-OF-WAY. BASED ON THE GRADING AND BMP'S SHOWN HEREON, A SWPPP IS NOT REQUIRED AS STORMWATER GENERATED FROM THIS
- 10. THE FOLLOWING BMPS FROM THE IDEQ CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES, VOLUME 2: EROSION AND SEDIMENT CONTROLS ARE HEREBY MADE A PART OF THIS PLAN:

BMP 2: STAGING AREAS

BMP 5: STABILIZATION OF CONSTRUCTION ENTRANCE/EXIT

BMP 12: WASTE MANAGEMENT

BMP 13: CONCRETE WASTE MANAGEMENT

BMP 31: INLET PROTECTION BMP 36: SILT FENCE

11. THE BMPS PROPOSED HEREON ARE DESIGNED TO PREVENT AND/OR MITIGATE THE POTENTIAL FOR STORMWATER TO BE CONVEYED TO WATERWAYS OF THE UNITED STATES. THE CONTRACTOR IS REQUIRED TO FILE A NOTICE OF INTENT WITH THE EPA AND PROCESS A CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR SHALL POST APPROVED SWPPP, IF REQUIRED, AND NOI DOCUMENTS ONSITE IN A PUBLICLY VISIBLE LOCATION.

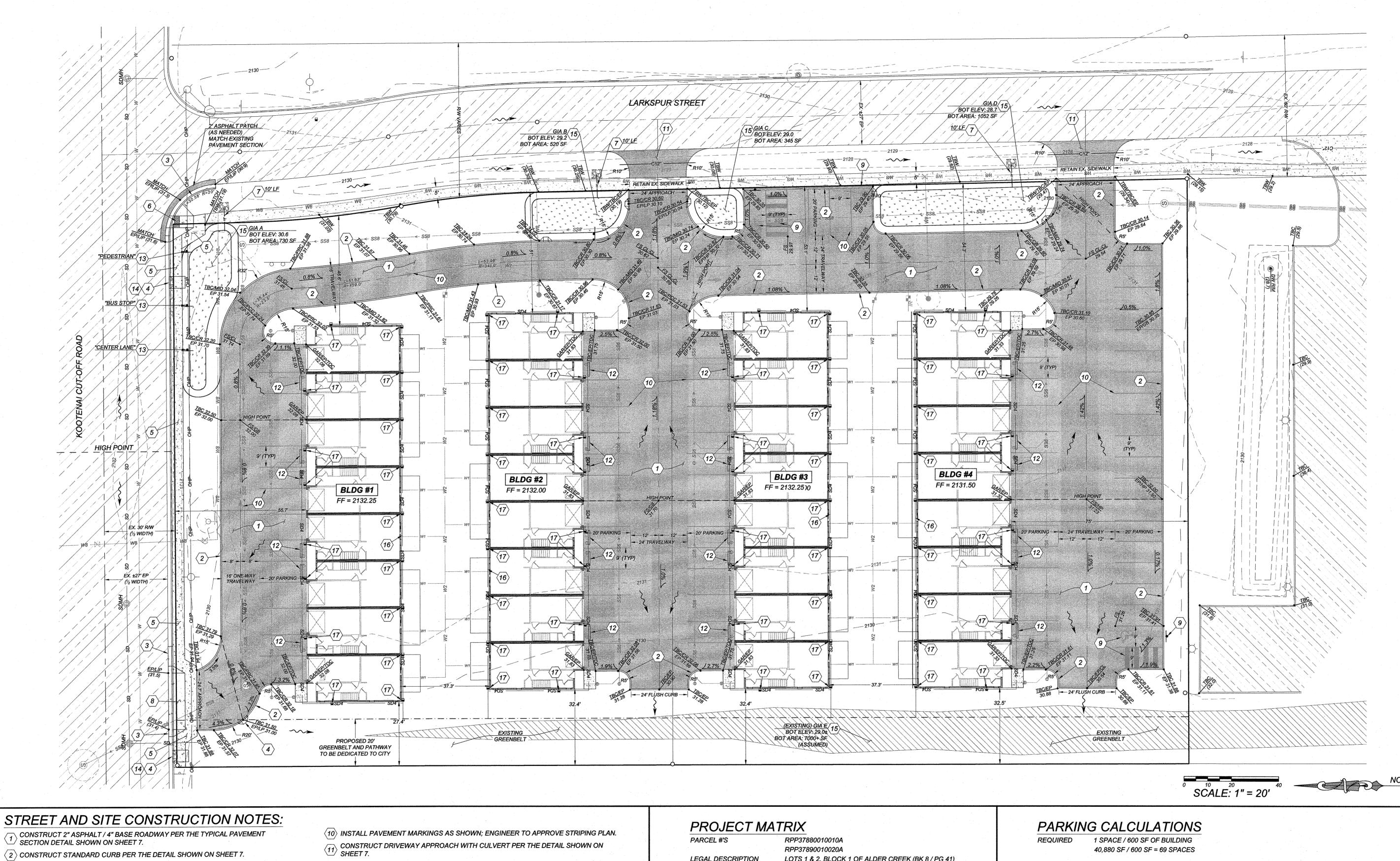


CALL TWO BUSINESS DAYS

BEFORE YOU DIG

DESIGNED BY: DRAFTED BY: GDH/SMA 03/16/2020 JOB NO: LCE 19-007 UNDERGROUND SERVICE ALERT ONE-CALL NUMBER

ONE INCH



- \langle 3 \rangle CONSTRUCT STANDARD CURB AND GUTTER PER THE DETAIL SHOWN ON SHEET 7.
- \langle 4 angle CONSTRUCT DRAINAGE CURB CUT PER THE DETAIL SHOWN ON SHEET 7.

 \langle $_{6}$ angle CONSTRUCT PEDESTRIAN RAMP PER THE DETAIL SHOWN ON SHEET 7.

- \langle 5 angle CONSTRUCT 5' WIDE SIDEWALK PER THE DETAIL SHOWN ON SHEET 7.
- INSTALL 8" CULVERT UNDER EXISTING SIDEWALK AND ARMOR AT OUTFALL WITH 6" \langle $_{7}\rangle$ angular rock per manufacturer's specifications and city of ponderay
- (8) CONSTRUCT DRIVEWAY APPROACH PER THE DETAIL SHOWN ON SHEET 7.
- 9 INSTALL ADA VAN ACCESSIBLE PARKING STALL STRIPING WITH APPROVED SIGNAGE PER DETAIL SHOWN ON SHEET 7.
- 12 INSTALL WHEEL STOP, AS SHOWN AND PER THE DIRECTION OF THE OWNER, PER DETAIL SHOWN ON SHEET 7.
- (13) INSTALL RELOCATED SIGN PER CITY OF PONDERAY REQUIREMENTS.
- \langle 14angle CONSTRUCT SIDEWALK UNDERDRAIN PER THE DETAIL SHOWN ON SHEET 7.
- (15) CONSTRUCT GRASSY INFILTRATION AREA PER THE DETAIL SHOWN ON SHEET 7.
- INSTALL 4" STORM DRAIN LINE PER MANUFACTURES SPECIFICATIONS. COORDINATE WITH ARCHITECTURAL PLANS. GRADE TO DRAIN AND DAYLIGHT IN GREENBELT
- RAIN GUTTER DOWNSPOUTS PER APPROVED ARCHITECTURAL PLANS BY OTHERS.
 CONNECT TO DRAIN PIPE AS REQUIRED CONTRACTOR TO SUB-CONNECT TO DRAIN PIPE AS REQUIRED. CONTRACTOR TO SUBMIT SPECIFICATIONS.

LEGAL DESCRIPTION LOTS 1 & 2, BLOCK 1 OF ALDER CREEK (BK 8 / PG 41) 2.39 ACRES TOTAL AREA

OF UNITS 32 DENSITY 13.4 du/ac OPEN SPACE 30,915 SF

(ALL BUILDINGS)

IMPERVIOUS AREA 26,668 SF (ROOF) 36,354 SF (PAVEMENT) 34.9% OF SITE

BUILDING FLOOR AREA MAIN FLOOR 4,072 SF (EACH BUILDING)

UPPER FLOOR 6,148 SF TOTAL AREA 10,220 SF TOTAL AREA 40,880 SF

PROVIDED

32 GARAGES 32 IN-FRONT GARAGE 46 STANDARD

2 ADA (VAN ACCESSIBLE) 112 TOTAL

ONE INCH SCALE ACCORDINGLY DESIGNED BY: DRAFTED BY: JOB NO:

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER CALL TWO BUSINESS DAYS BEFORE YOU DIG

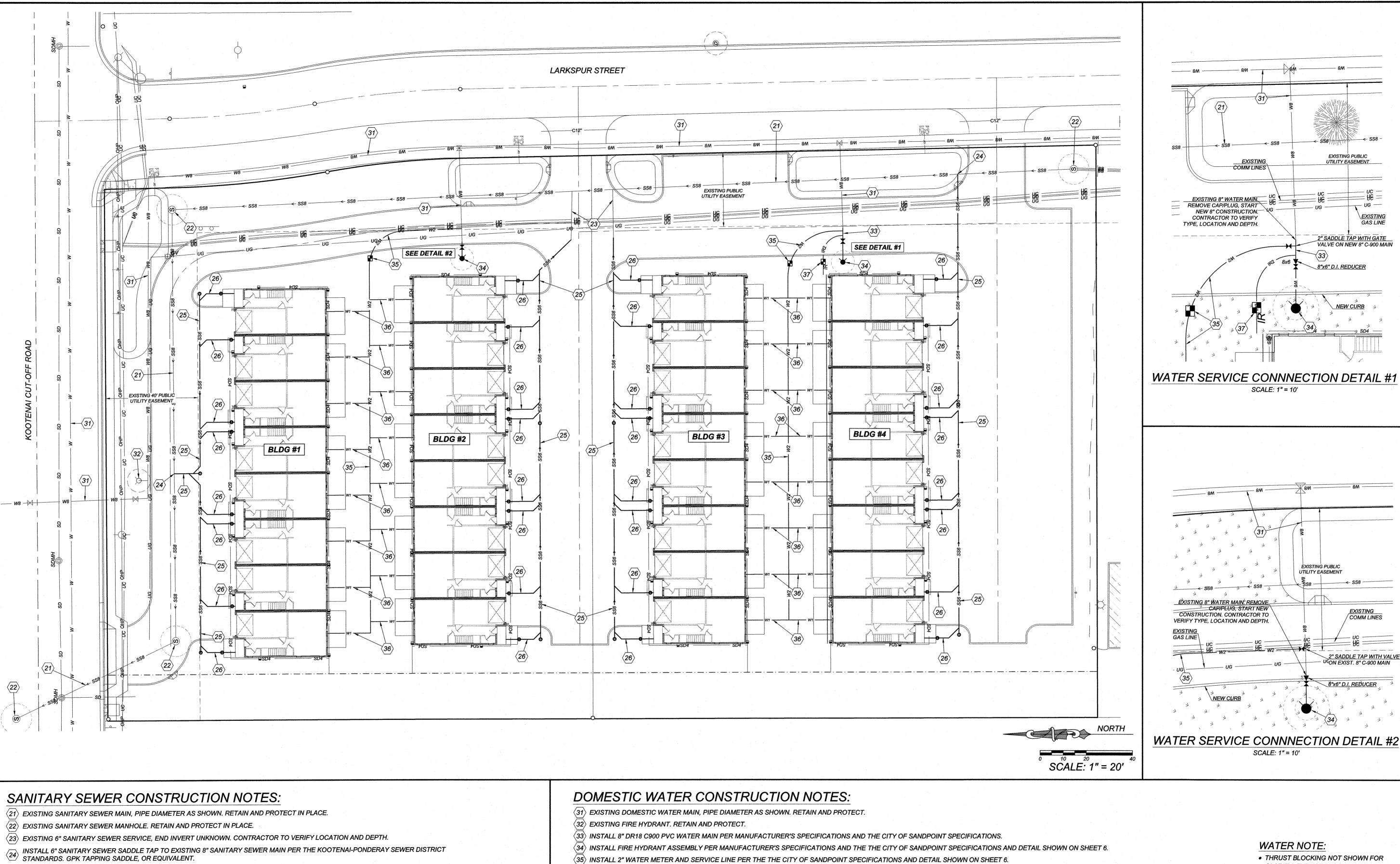
AT FULL SIZE IF NOT LCE 19-007

ONE INCH

TOWN

REE

GRADING, IDERAY, IDA



INSTALL 6" SDR 35 SANITARY SEWER LINE AT MINIMUM 1% GRADE WITH 6" CLEANOUT, AS SHOWN, PER THE KOOTENAI-PONDERAY SEWER DISTRICT STANDARDS AND IDAHO STATE PLUMBING CODE.

26 INSTALL 4" SDR 35 SANITARY SEWER SERVICE AT MINIMUM 2% GRADE WITH 4" CLEANOUT, AS SHOWN, PER THE KOOTENAI-PONDERAY SEWER DISTRICT STANDARDS AND IDAHO STATE PLUMBING CODE.

- $\langle 35 \rangle$ INSTALL 2" WATER METER AND SERVICE LINE PER THE THE CITY OF SANDPOINT SPECIFICATIONS AND DETAIL SHOWN ON SHEET 6.
- (36) INSTALL 1" POLY WATER SERVICE LINE PER IDAHO STATE PLUMBING CODE.
- (37) INSTALL 2" IRRIGATION SERVICE PER THE CITY OF SANDPOINT SPECIFICATIONS.

WATER NOTE:

SCALE: 1" = 10'

• THRUST BLOCKING NOT SHOWN FOR CLARITY. THRUST BLOCKING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SANDPOINT WATER DEPARTMENT STANDARDS AND REQUIREMENTS.

EXISTING PUBLIC UTILITY EASEMENT

2" SADDLE TAP WITH VALVE UGON EXIST. 8" C-900 MAIN

8"x6" D.I. REDUCER

EXISTING PUBLIC

2" SADDLE TAP WITH GATE VALVE ON NEW 8" C-900 MAIN

8"x6" D.I. REDUCER

SCALE: 1" = 10'

- UG ----

\<u>EXISTING</u>

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

WW

EK

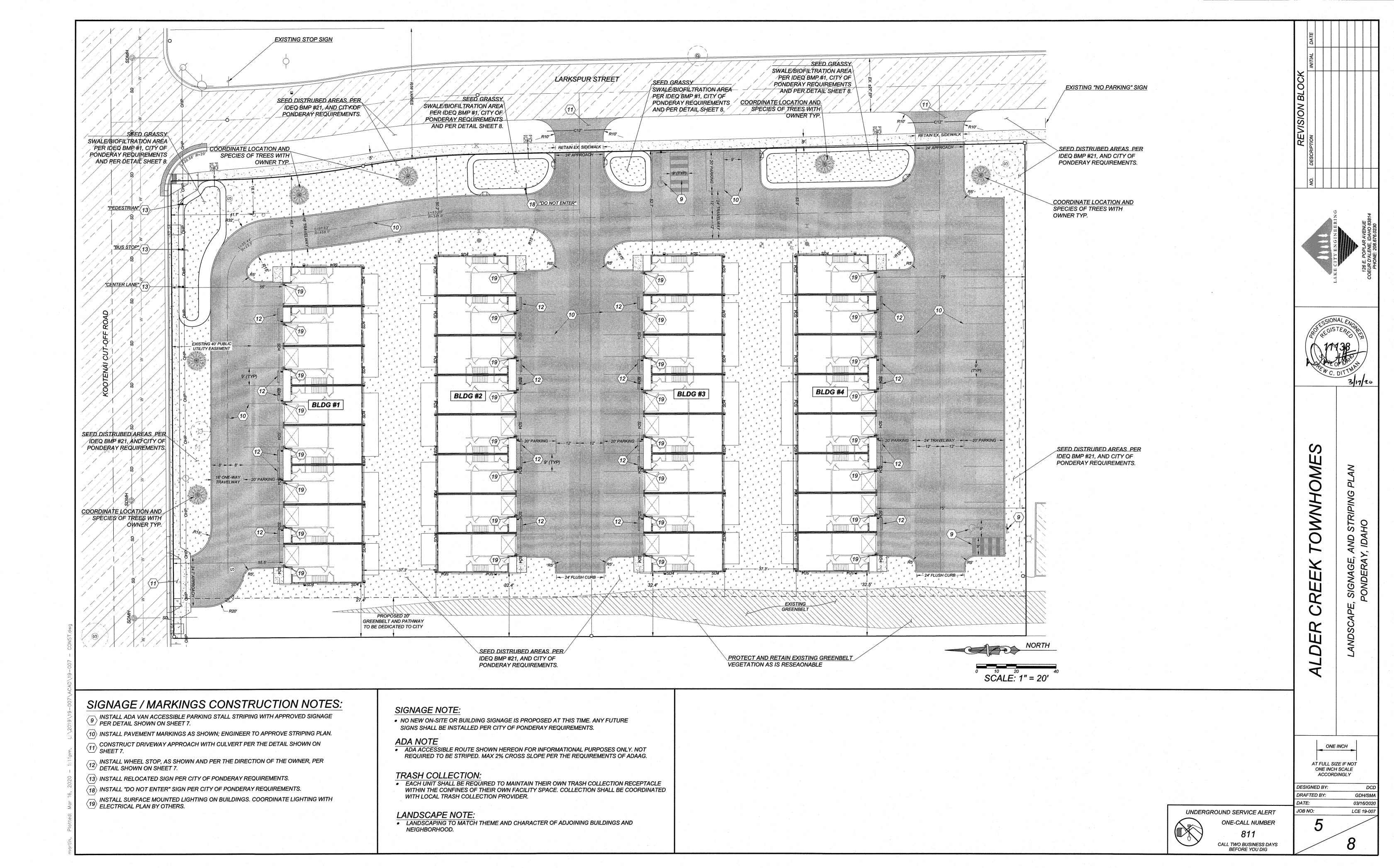
E

2

E

DRAFTED BY: GDH/SMA JOB NO: LCE 19-007 UNDERGROUND SERVICE ALERT ONE-CALL NUMBER

DESIGNED BY: CALL TWO BUSINESS DAYS BEFORE YOU DIG



SUPPLEMENTAL GRADING NOTES:

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED IN ORDER TO PROVIDE GUIDANCE TO
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- 3. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR IS REQUIRED TO PERFORM HIS (THEIR) OWN EARTHWORK CALCULATIONS PRIOR TO SUBMITTING A BID PROPOSAL TO DEVELOPER.
- 4. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

HORIZONTAL PAVEMENT AREA SUBGRADE

ENGINEERED FILL

0.1'+ +0.1' TO -0.1'

+0.1' TO -0.1' 0.5'+

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE, AT THE CONTRACTORS

- 5. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITH AN EFFECTIVE DRYLAND SEED MIXTURE.
- 6. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USEABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USEABLE CONDITION.
- 7. THE TOPOGRAPHY SHOWN HEREON IS SPECIFICALLY INTENDED FOR THE MASS GRADING SHOWN HEREON.
- 8. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH THE GRADING OPERATIONS..
- 9. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER
- 10. EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION AND/OR RELOCATION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE
- 11. PROTECTION AND REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES NOT DELINEATED ON THE CONTRACT DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES SHALL BE DONE IN ACCORDANCE WITH IDAHO CODE.
- 12. CONTRACTOR IS REQUIRED TO CALL FOR LOCATES. CALL BEFORE YOU DIG, 811

PLANS. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND.

- 13. ENGINEER OF RECORD MAKES NO GUARANTEE OF TOPOGRAPHY SHOWN HEREON. CONTRACTOR TO FIELD VERIFY AT HIS EXPENSE ALL TOPOGRAPHY PRIOR TO THE START OF ANY WORK HEREON. CONTRACTOR SHOULD IMMEDIATELY NOTIFY ENGINEER OF RECORD IF ANY DISCREPANCIES ARE FOUND.
- 14. LIMITS OF CLEARING TO BE A MINIMUM OF 10' OUTSIDE OF CUT/ FILL DAYLIGHT LINE IF POSSIBLE OR AS DETERMINED IN
- 15. A LICENSED PROFESSIONAL ENGINEER WITH APPROPRIATE GEOTECHNICAL EXPERIENCE SHALL MONITOR, TEST AND CERTIFY THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS HEREON AND WITH CITY OF PONDERAY STANDARDS.
- 16. CUT SLOPES SHOWN HEREON ARE A MAXIMUM 3:1 PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
- 17. A SEARCH OF AVAILABLE RECORDS AND FIELD RESEARCH WAS CONDUCTED TO LOCATE EXISTING SURVEY MONUMENTS, PROPERTY CORNERS, AND PLSS MONUMENTS WITHIN THE PROJECT LIMITS. LOCATIONS OF SUCH EXISTING ARE SHOWN HEREON FOR REFERENCE. ANY EXISTING MONUMENTS THAT WILL BE LOST OR DISTURBED DURING THE COURSE OF CONSTRUCTION MUST BE RE-ESTABLISHED PER THE REQUIREMENTS OF IDAHO CODE 55-1613 AT THE CONTRACTOR'S EXPENSE. EXISTING MONUMENTS MUST BE PRESERVED AND PROTECTED, TO THE EXTENT POSSIBLE, DURING CONSTRUCTION.
- 18. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION SCHEDULING AND SEQUENCING GUIDELINES PER BMP #1 OF VOLUME 2 OF THE IDEQ STORM WATER BEST MANAGEMENT PRACTICES
- 19. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PRESERVE THE EXISTING VEGETATION ALONG THE SPECIFIED PROJECT LIMITS PER BMP #3 OF VOLUME 2 OF THE IDEQ STORM WATER BEST MANAGEMENT PRACTICES CATALOG
- 20. CONTRACTOR SHALL CONFINE CLEARING LIMITS TO WITHIN THE SPECIFIED PROJECT LIMITS PER BMP #4 OF VOLUME 2 OF THE IDEQ STORM WATER BEST MANAGEMENT PRACTICES CATALOG (LATEST EDITION).
- 21. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN A DUST CONTROL PROGRAM ON A DAILY BASIS, INCLUDING WEEKEND AND HOLIDAYS PER BMP #7 OF VOLUME 2 OF THE IDEQ STORM WATER BEST MANAGEMENT PRACTICES CATALOG
- 22. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO COVER ALL ONSITE MATERIALS AND EQUIPMENT PER BMP #8 OF VOLUME 2 OF THE IDEQ STORM WATER BEST MANAGEMENT PRACTICES 23. NO WASHOUT FACILITIES INCLUDING CONCRETE MATERIAL WASHOUT WILL BE PERMITTED WITHIN THE SPECIFIED
- PROJECT LIMITS. THE CONTRACTOR SHALL DIRECT ALL WASHOUT ACTIVITIES TO BE CONDUCTED OFF-SITE WITHIN DESIGNATED WASHOUT AREAS.
- 24. CONTRACTOR SHALL FILE AND MAINTAIN A NOTICE OF INTENT WITH THE EPA AND OBTAIN A CONSTRUCTION GENERAL PERMIT FOR THIS PROJECT. THE APPROVED SWPPP DOCUMENTS SHALL BE ONSITE IN A PUBLICLY VISIBLE LOCATION DURING THE COURSE OF CONSTRUCTION
- 25. CONTRACTOR SHALL MAKE PROVISIONS TO RETAIN AND PROTECT ALL EXISTING SURVEY MONUMENTS, PROPERTY CORNERS AND PUBLIC LANDS CORNERS. ALL DISTURBED MONUMENTS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF IDAHO CODE.

Sandpoint Public Works Department

I. WATER

2. Water Mains

Fire Hydrants - Waterous or Mueller

FH valves shall be attached to tee at main.

Fire Hydrant requires Stortz Adapter

150 lbs. for 2 hour hold time

larger than 2"

Following setting, paint with hydrant yellow enamel

b. 3M Mid-range markers #1257 shall be placed at each valve

used shall be Chlorine Tablets or Powder

Dead end mains shall have standard fire hydrant for flushing purposes.

Snow Flag Marker required Spring Steel Marker Flag 75193 (red/white reflective)

Water Main Pressure Test - Per Section 401 (3.6) of ISPWC Current Edition

Where MJ fittings are used Romac Grip Ring Assembly Kits shall be used.

PVC C-900 or Ductile Iron Class 150 over 12" must be approved through PW Director

Water Main Disinfection - Per Section 401 (3.9) of ISPWC - Current Edition; Method to be

Live main taps shall be by Sandpoint Water at developer's expense. (72 hrs. notice required)

Cast in place thrust blocks shall be placed at change of direction of all water mains and services

26. CONTRACTOR SHALL MAKE PROVISIONS TO RETAIN AND PROTECT ALL SURVEY CONTROL, CONSTRUCTION STAKES AND OFFSETS. ANY RESTAKING WILL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR

SUPPLEMENTAL CONSTRUCTION NOTES:

- THE CONTRACTOR IS REQUIRED TO KEEP ALL EQUIPMENT, PERSONNEL AND MATERIALS CONFINED TO PROJECT LIMITS AS SHOWN HEREIN. UNLESS SPECIFIED OTHERWISE. ALL PROPERTY AND DISTURBED AREAS DAMAGED OUTSIDE THE PROJECT LIMITS SHALL BE RESTORED BY THE CONTRACTOR TO EQUAL OR BETTER CONDITIONS AND APPROVED BY THE ENGINEER AT NO ADDITIONAL EXPENSE TO THE CITY AND THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES PRIOR TO STARTING WORK NEAR ANY FACILITIES AND SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THEIR WORK WITH UTILITY COMPANY
- THE EXISTENCE AND LOCATION OF UTILITIES SHOWN HEREIN ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY AND FINGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THESE PLANS OR NOT IN THE LOCATION SHOWN HEREIN. THE CONTRACTOR SHALL CONTACT "ONE CALL" AT 811 AT LEAST 48 HOURS PRIOR TO STARTING ANY EXCAVATION WORK AND SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL STOP WORK AND IMMEDIATELY NOTIFY UTILITY COMPANY REPRESENTATIVES OF ANY AND ALL DAMAGES TO EXISTING UTILITIES THAT HAS OCCURRED DURING CONSTRUCTION. UNLESS SPECIFIED OTHERWISE ALL LITILITY DAMAGES SHALL BE RESTORED TO FOLIAL OR BETTER CONDITIONS AND APPROVED BY THE UTILITY COMPANY REPRESENTATIVES AT NO ADDITIONAL COST TO THE CITY OR THE ENGINEER.
- 5. IN THE EVENT OF ANY UNFORESEEN CONDITION NOT COVERED BY THESE PLANS AND SPECIFICATIONS ARE ENCOUNTERED DURING CONSTRUCTION, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED TO PROVIDE DIRECTION TO THE CONTRACTOR.
- UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING STRUCTURES. FENCES. MAILBOXES, TREES, LANDSCAPING DRIVEWAYS OR ANY OTHER PRIVATE PROPERTY THAT BECOMES DAMAGED OR REMOVED BY THE CONTRACTOR DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.
- OTHER PUBLICLY OR PRIVATELY OWNED PROPERTY WITHIN THE PROJECT LIMITS IN A CLEAN, SAFE, AND USABLE CONDITION ALL SOIL ROCKS FOLIPMENT AND MATERIALS AND/OR OTHER CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED AND DISPOSED OF BY THE CONTRACTOR DURING CONSTRUCTION AND AT THE COMPLETION OF

THE CONTRACTOR SHALL MAINTAIN ALL ADJACENT STREETS, CURB AND GUTTERS, SWALES, SIDEWALKS, OR ANY

- PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PREPARE AND SUBMIT THEIR PROPOSED CONSTRUCTION SCHEDULE TRAFFIC CONTROL PLAN DUST ABATEMENT PROGRAM AND CONSTRUCTION OF FAN UP PLAN TO THE CITY AND ENGINEER. NO WORK SHALL BEGIN UNTIL AFOREMENTIONED INFORMATION HAS BEEN
- UNLESS APPROVED BY THE CITY AND THE ENGINEER, THE CONTRACTOR SHALL ADHERE TO THEIR SUBMITTED CONSTRUCTION SCHEDULE.
- 10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL APPROVED TRAFFIC CONTROL DEVICES DETOURED ROUTES, AND ELAGGING OPERATIONS IN ACCORDANCE TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ON A DAILY BASIS INCLUDING WEEKENDS AND HOLIDAYS. ANY MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY PRIOR TO IMPLEMENTATION
- 11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE APPROVED DUST ABATEMENT PROGRAM ON A DAILY BASIS INCLUDING WEEKENDS AND HOLIDAYS.
- 12. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL COORDINATE WITH ALL LOCAL SOLID WASTE MANAGERS AND PROVIDE TEMPORARY PROVISIONS FOR ALL LOCAL SOLID WASTE PERSONNEL AND EQUIPMENT TO ACCESS TRASH AND RECYCLING RECEPTACLES BELONGING TO ALL AFFECTED RESIDENTS AND BUSINESSES WITHIN PROJECT LIMITS UNTIL THE CLOSE OF THE PROJECT.
- 13. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL COORDINATE WITH ALL SCHOOL DISTRICT TRANSPORTATION DIRECTORS AND PROVIDE TEMPORARY PROVISIONS FOR ALTERNATIVE BUS ROUTES WITHIN
- 14. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POST MASTER AND PROVIDE TEMPORARY PROVISIONS FOR TEMPORARY MAIL DELIVERY ROUTES WITHIN PROJECT LIMITS UNTIL THE CLOSE OF THE PROJECT.
- 15. UNLESS SPECIFIED OTHERWISE, STRIPING IS NOT PART OF THE PROJECT SCOPE.
- 16. THE EXISTENCE AND LOCATION OF PROPERTY, EASEMENT AND RIGHT-OF-WAY LINES SHOWN HEREIN ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY AND ENGINEER BEARS NO RESPONSIBILITY FOR LINES NOT SHOWN ON THESE PLANS OR NOT IN THE LOCATION SHOWN HEREON.
- 17. ALL BACKFILL SLOPES BEHIND NEW CURB AND GUTTER, SIDEWALK, OR OTHER IMPROVEMENTS SHALL BE A MAXIMUM OF 3:1 AND SHALL BE INSTALLED WITH LIKE MATERIALS.
- 18. ALL OTHER DISTURBED AREAS SHALL BE HYDROSEEDED WITH AN APPROPRIATE MIXTURE AS APPROVED BY THE CITY ENGINEER UNLESS OTHERWISE NOTED HEREON.
- 19. ALL DAMAGED IRRIGATION SYSTEMS SHALL BE REPAIRED IN KIND AND APPROVED BY THE CITY ENGINEER PRIOR TO ACCEPTANCE. ANY EXISTING SWALES THAT ARE DISTURBED, RE-GRADED, OR EXTENDED SHALL HAVE THE EXISTING IRRIGATION SYSTEM REPAIRED AND/OR ALTERED TO ACCOMMODATE THE NEW SWALE.
- 20. ALL DRIVEWAY AND URBAN APPROACH LOCATIONS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION OF CURB AND GUTTER
- 21. CURB STRING LINE SHALL BE APPROVED BY THE CITY ENGINEER AND THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION OF CURB AND GUTTER OR SIDEWALK.
- 22. A SEPARATE PLUMBING PERMIT IS REQUIRED FOR INSTALLATION OF PRIVATE SEWER, CONTRACTOR IS REQUIRED TO SECURE SAID PERMIT PRIOR TO CONSTRUCTION OF SAID SEWER INFRASTRUCTURE.
- 23. THE INTENT OF THE DESIGN PLANS AND CALCULATIONS CONTAINED HEREIN IS TO COMPLY WITH THE REQUIREMENTS OF THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN. MODIFICATIONS MAY BE NECESSARY BASED ON FIELD/ACTUAL CONDITIONS TO ENSURE THAT ALL CONSTRUCTION MEETS THESE STANDARDS AS REQUIRED. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE FAMILIAR WITH THESE STANDARDS AND ARE SOLELY RESPONSIBLE TO WARRANT THAT ALL CONSTRUCTION ACTIVITY IS IN ACCORDANCE WITH THESE STANDARDS.

3M Mid-range markers #1257 shall be placed at each curb stop and valve.

bearing NSF stamp for potable water pipe. Solvent welds not acceptable.

Curb boxes shall be Brooks 250 Series - Full Length, with cast iron flip-top lid, cut off as

Water Service Piping - 1" Iron Pipe Size (IPS) Poly Pipe 200 pst; meeting AWWA C901 and

All bushings, nipples and fittings shall be brass meeting NSF 61 Certification - No Galvanized

Shall be located in ground adjacent to curb stop (provided and installed by City of Sandpoint).

Manhole Ring and Cover - IFCO 828 Solid Ring and Cover, or equal; City of Sandpoint Design

Contractor/Developer is responsible for all testing prior to acceptance of water mains

All test results shall be submitted to and approved by the City prior to acceptance by the

Bricks shall be placed beneath corporation and curb stop

All service saddles shall be double strap - stainless steel straps.

directed by Public Works Inspector

Water Meters - Badger

b. Dual check valve assembly required

Chlorination Test

Bacteria Test

Pressure Test

Testing shall include the following:

SUPPLEMENTAL ESC NOTES

- 1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
- A. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS;
- B. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO
- C. CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
- D. STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY
- E. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;

I. INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,

- F. TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
- G. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.):
- H. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
- J. REMOVE TEMPORARY ESC CONTROLS WHEN:
- a. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
- b. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED: AND
- c. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
- INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
- 3. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- 4. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
- 5. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
- 6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT
- INSPECT SEDIMENT CONTROL BMPS WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
- 8. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA. A WATER TRUCK SHALL BE AVAILABLE FOR DUST CONTROL DURING CONSTRUCTION AS NEEDED.
- 9. STABILIZE EXPOSED UN-WORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
- 10. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
- 11. KEEP ROADS ADJACENT TO INLETS CLEAN.
- 12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
- 13. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
- 14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
- 15. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM, USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
- 16. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
- 17. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY
- 18. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACE BEFORE SIX INCHES OF SEDIMENT CAN
- 19. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.

BEST MANAGEMENT PRACTICES (BMP'S)

THE FOLLOWING BMP'S FROM THE IDAHO CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES ARE HEREBY MADE A PART OF THIS PLAN:

EROSION AND SEDIMENT CONTROLS (VOLUME 2)

 BMP 13 CONCRETE WASTE MGMT. BMP 1 TIMING OF CONSTRUCTION

BMP 20 TOPSOILING

• BMP 35 FIBER ROLLS

BMP 36 SILT FENCE

BMP 31 INLET PROTECTION

• BMP 21 SEEDING

- BMP 2 STAGING AREA
- BMP 4 CLEARING LIMITS
- BMP 5 CONSTRUCTION ENTRANCE
- BMP 7 DUST CONTROL
- BMP 8 COVER FOR MATERIALS
- BMP 9 STOCKPILE MANAGEMENT

PERMANENT STORMWATER CONTROLS (VOLUME 4)

BMP 1 BIOFILTRATION SWALE

SEWER & WATER LEGEND

CENTERLINE INTERSECTION OF STREET CENTERLINES TYPICAL FINISHED SURFACE ELEVATION

ELEVATION EXISTING EDGE OF PAVEMENT ELEVATION (EP) EX EXISTING RIGHT OF WAY MANHOLE

INTERSECTION OF STREET CENTERLINES

POINT OF REVERSING CURVES

TOP FACE OF PATH/TRAIL

TOP BACK OF CURB

END OF CURB RETURN

MIDDLE OF CURVE

FLOW LINE

HIGH POINT

LOW POINT

GRADE BREAK

CENTERLINE

TYPICAL

FS

MOC

PRC

INV IN INVERT ELEVATION IN INV OUT INVERT ELEVATION OUT PRESSURE REDUCING VALVE ASBESTOS CEMENT THRUST BLOCK SLOPE LENGTH TOP OF PIPE

STREET & STORM DRAINAGE LEGEND

FINISHED GRADE ELEVATION FINISHED SURFACE ELEVATION BEGINNING OF CURB RETURN **ELEVATION** EDGE OF PAVEMENT TFC TOP FACE OF CURB STLT OG

ORIGINAL GRADE DDDW GIA PROPERTYLINE TOC TOP OF CONCRETE

STREET LIGHT SDDW SINGLE DEPTH DRYWELL DOUBLE DEPTH DRYWELL GRASSY INFILTRATION AREA TOP BACK OF PATH/TRAIL

IR IRR

LEGEND

PROPOSED CONTOURS ROLLED CURB WITH CURB CUT STANDARD CURB WITH CURB CUT SIDEWALK PAVEMENT _____ GRASSY SWALE WITH DRYWELL CATCH BASIN & STORM PIPE SD10 ------- SD10 ----STREET LIGHT • SIGN STREET SIGNS SIGN SEWER MAIN & MANHOLE SEWER CLEAN OUT SEWER SERVICE -`SS4 ------ ______W WATER MAIN & VALVE Q FIRE HYDRANT BLOW OFF ASSEMBLY _____w_ WATER METER & SERVICE ----- W1 ----

SURVEYING NOTES

THE EXISTENCE AND LOCATION OF MONUMENTS, PROPERTY, EASEMENT AND RIGHT-OF-WAY LINES SHOWN HEREIN ARE APPROXIMATE AND BASED ON BEST AVAILABLE INFORMATION AND FIELD RESEARCH. THEY ARE PROVIDED FOR THE CONTRACTOR ONLY AND THE CITY AND ENGINEER BEARS NO RESPONSIBILITY FOR LINES NOT SHOWN ON THESE PLANS OR LINES NOT IN THE LOCATION SHOWN HEREIN.

IRRIGATION METER & SERVICE

- 2. CONTRACTOR SHALL MAKE PROVISIONS TO RETAIN AND PROTECT ALL EXISTING SURVEY CONTROL. CONSTRUCTION STAKES, SURVEY MONUMENTS AND PROPERTY PINS. ANY RE-STAKING SHALL BE AT CONTRACTOR'S EXPENSE. ALL DISTURBED SURVEY MONUMENTS AND PROPERTY PINS SHALL BE REPLACED PER IDAHO CODE BY THE CONTRACTOR'S LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 3. A SEARCH OF AVAILABLE RECORDS AND FIELD RESEARCH WAS CONDUCTED TO LOCATE EXISTING SURVEY MONUMENTS, PROPERTY CORNERS, AND PLSS MONUMENTS WITHIN THE PROJECT LIMITS. LOCATIONS OF SUCH EXISTING ARE SHOWN HEREON FOR REFERENCE. ANY EXISTING MONUMENTS THAT WILL BE LOST OR DISTURBED DURING THE COURSE OF CONSTRUCTION MUST BE RE-ESTABLISHED PER THE REQUIREMENTS OF IDAHO CODE 55-1613 AT THE CONTRACTOR'S EXPENSE. EXISTING MONUMENTS MUST BE PRESERVED AND PROTECTED, TO THE EXTENT POSSIBLE, DURING CONSTRUCTION.

Ш

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

JOB NO: ONE-CALL NUMBER CALL TWO BUSINESS DAYS BEFORE YOU DIG

DESIGNED BY: DRAFTED BY: LCE 19-007

Memo

To: Developers, Engineers, Contractors

Date: May 2017 (Updated

Rules and Regulations shall govern

Current Edition.

From: Ryan Luttmann P.E., Public Works Director

appropriate parties to discuss development requirements.

Many of the items discussed in the memorandum are available at cityofsandpoint.com/publicworks.

Water and Sewer Rules and Regulations are hereby included by reference, where conflict occurs

The Streetscape Ordinance and its requirements for curb & gutter, sidewalks and street widening is

included by reference. Copies of the Streetscape Ordinance are available in the Public Works

All construction shall be in accordance with Idaho Standards for Public Works Construction

Prior to construction the Public Works Department will schedule a pre-development meeting with

Scheduling inspections for all phases of the work are the responsibility of the developer or his

Re: Sandpoint Development Requirements

UNDERGROUND SERVICE ALERT

Water Services designated representative. Failure to call for inspections (263-3428 Sandpoint City Maintenance Shop) will result in excavating or further testing to ensure compliance with City of Sandpoint requirements. Tracing wire (12 gauge) shall be place atop all water mains and shall be brought to the Corp Stop 1" (Ball Type Corp Stop) Sealed Unit (FB 400 Ball Corp) - 1" AWWA/1" male iron City of Sandpoint Rules and Regulations require certification of the as-built drawings by an Idaho surface at each mainline and fire hydrant valve. Tracing wire shall be placed atop all water thread inlet by 1" male iron thread outlet. Brass construction. (Ford, Mueller, McDonald) mains and water service lines. The wire shall be brought to the surface on the outside of each water service curb box and fire hydrant and inside each valve box. Provided below are specific requirements for Water, Sanitary Sewer, Streets, Storm Water, Sidewalks, There shall be a separate water service for each lot. No meter will be installed in driveways. Curbs, Curb Ramps, Monumentation, etc. for any development work within the City of Sandpoint and Contractor/Developer is responsible for providing as-built drawings (2 sets of plans) in When two water services are installed at a property corner for two lots, and they are laid in a in the case of water within the Water Service Area Boundary of the City of Sandpoint. paper and electronic format (meeting requirements of GIS Coordinator - 255-1877) prior common trench, the curb stops and service line shall not be more than two feet apart. The water to water system acceptance by the City All infrastructure work shall be warranted for two years from time of initial acceptance by the City. services shall be installed on the property corner not having any other utilities. Acceptance means a written document from the City specifically accepting the work. All water services shall be installed to a minimum of ten feet inside the curb line. All services shall extend past the utility (power, phone, cable and gas) easement. Curb stop direction shall be determined by the PW inspector.

3.6 PRESSURE TESTING

- A. PERFORM TESTING IN THE PRESENCE OF THE ENGINEER.
- B. ASSURE THAT TRENCH IS PROPERLY BACKFILLED AND THRUST BLOCKING HAS CURED TO A DEGREE THAT WILL ALLOW PRESSURE TESTING WITHOUT DAMAGE, OR PIPE/FITTING MOVEMENT
- C. GRADUALLY FILL PIPE WITH WATER. FOR PIPE WORKING PRESSURES LESS THAN OR EQUAL TO 100 PSI, SUSTAIN A TEST PRESSURE OF 150 PSI. FOR PIPE WORKING PRESSURES GREATER THAN 100 PSI. SUSTAIN A TEST PRESSURE AT LEAST 1.5 TIMES THE WORKING PRESSURE OR AS DETERMINED BY THE
- D. EXPEL ALL AIR.
- E. VERIFY THAT, IN A TWO-HOUR TEST, THE PIPE DOES NOT LEAK IN EXCESS OF THE ALLOWABLE LEAKAGE AS DEFINED BY THE FOLLOWING FORMULA IN WHICH Q IS THE ALLOWABLE LEAKAGE IN

- ALLOWABLE LEAKAGE IN GALLONS PER HOUR = LENGTH OF PIPE SECTION BEING TESTED, IN FEET
- NOMINAL DIAMETER OF PIPE, IN INCHES AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST, IN POUNDS PER
- F. PRESSURE TEST HDPE PIPE PER ASTM 2164 FIELD LEAK TESTING OF POLYETHYLENE (PE) PRESSURE

3.9 FLUSHING AND DISINFECTION

- A. FLUSHING PRIOR TO DISINFECTION.
- 1. BEFORE CHLORINATION, FLUSH THE MAINS THOROUGHLY AFTER THE PRESSURE AND LEAKAGE TEST ARE COMPLETED.
- 2. USE A MINIMUM FLUSHING VELOCITY IN THE MAIN OF 2.5 FEET/SECOND.
- 3. IF NO HYDRANT IS INSTALLED AT THE END OF THE MAIN, PROVIDE A TAP OF THE SIZE SUFFICIENT TO PRODUCE A VELOCITY IN THE MAIN OF AT LEAST 2.5 FEET/SECOND.
- 4. TABLE 1 SHOWS THE RATES OF FLOW REQUIRED TO PRODUCE A VELOCITY OF 2.5 FEET/SECOND IN VARIOUS SIZE PIPES.

REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES

	FLOW REQUIRED TO PRODUCE 2.5 fps (APPROX)	(1)	SIZE OF PIPE (INCH) (1-1/2)	(2)	HYDRANT O	UTLETS
PIPE DIAM. Velocity in Main, (INCH) (GPM)		NUMBER OF TAPS ON PIPE (2)			NUMBER	SIZE IN (INCH))
4	100	1	1		1	2 1/2
6	220		1		1	2 1/2
8	400		2	1	1	2 1/2
10	600		3	2	1	2 1/2
12	900	-		2	2	2 1/2
16	1600	·		4	2	2 1/2
1)	WITH A 40 PSI PRESSURE A 2-1/2 INCH OUTLET WILL HYDRANT NOZZLE WILL D	L DISCHARG	E APPROXIM	ATELY 1,000	GPM AND A 4-	
2)	NUMBER OF TAPS ON PIPE BASED ON DISCHARGE THROUGH 5 FEET OF GALVANIZED IRON (GI) PIPE WITH ONE 90° ELBOW.					

- 5. EXERCISE EXTREME CARE AND CONDUCT A THOROUGH INSPECTION DURING THE WATER MAIN AYING TO PREVENT AND DETECT SMALL STONES, PIECES OF CONCRETE, PARTICLES OF MATERIAL, OR OTHER FOREIGN MATERIAL THAT MAY HAVE ENTERED THE MAINS.
- 6. CLEAN LARGE MATERIAL BY FLUSHING AND INSPECTING ALL HYDRANTS ON THE LINES TO ENSURE THAT THE ENTIRE VALVE OPERATING MECHANISM OF EACH HYDRANT IS IN GOOD CONDITION.

B. DISINFECTION OF WATER PIPES

- a. COMPLY WITH ANSI/AWWA C 651: DISINFECTING WATER MAINS, THESE SPECIFICATIONS, AND ENGINEER'S DIRECTION.
- b. KEEP THE INTERIOR OF ALL PIPE, FITTINGS AND APPURTENANCES FREE FROM DIRT, HEAVY
- c. DISINFECT ALL WATER PIPES AND APPURTENANCES PRIOR TO PLACING IN SERVICE.
- 2. FORM OF CHLORINE USED TO BE PRE-APPROVED BY THE ENGINEER.
- a. LIQUID CHLORINE.
 - 1) FORM: LIQUID CONTAINING 100% AVAILABLE CHLORINE UNDER PRESSURE IN STEEL
- 2) STANDARD: ANSI/AWWA B 301.
- 3) EXECUTION: USED ONLY BY TRAINED PERSONNEL WITH APPROPRIATE GAS-FLOW CHLORINATORS AND EJECTORS.
- 4) AUTHORIZATION: ONLY WITH WRITTEN AUTHORIZATION OF THE ENGINEER.
- b. SODIUM HYPOCHLORITE.
- 1) FORM: LIQUID CONTAINING APPROXIMATELY 5 TO 15% AVAILABLE CHLORINE.
- 2) STANDARD: ANSI/AWWA B 300.
- c. CALCIUM HYPOCHLORITE.
- 1) FORM: GRANULAR OR IN 5G TABLETS CONTAINING APPROXIMATELY 65% AVAILABLE CHLORINE BY WEIGHT
- 2) STANDARD: ANSI/AWWA B 300.
- 3. METHODS OF CHLORINATION USED TO BE PRE-APPROVED BY THE ENGINEER.
- a. TABLET OR GRANULE METHOD.
- 1) SOLUTION STRENGTH: 25 MG/L MINIMUM.
- 2) USE: ONLY IF THE PIPES AND APPURTENANCES ARE KEPT CLEAN AND DRY DURING ONSTRUCTION. DO NOT USE ON SOLVENT WELDED PLASTIC OR SCREWED JOINT
- 3) PLACEMENT WHEN USING GRANULES: DURING CONSTRUCTION, PLACE CALCIUM HYPOCHLORITE GRANULES AT THE UPSTREAM END OF THE FIRST SECTION OF PIPE, AT THE UPSTREAM END OF EACH BRANCH MAIN, AND AT 500-FOOT INTERVALS.
- 4) GRANULAR QUANTITY: REFER TO TABLE 2.

TABLE 2

OUNCES OF GRANULES			
PIPE DIAMETER	AMOUNT		
(INCHES)	(OUNCES)		
4	1.7		
6	3.8		
8	6.7		
10	10.5		
12	15.1		
16	26.8		
18	34.0		
20	41.9		
24	60.4		

PLACEMENT WHEN USING TABLETS: DURING CONSTRUCTION, PLACE 5G CALCIUM HYPOCHLORITE TABLETS IN EACH SECTION OF PIPE AND ALSO PLACE ONE TABLET IN EACH HYDRANT, HYDRANT BRANCH AND OTHER APPURTENANCE. ATTACH TABLETS TO HE INSIDE OF THE PIPE USING AN ADHESIVE SUCH AS PERMATEX NO. 2 OR APPROVED SUBSTITUTION. ASSURE NO ADHESIVE IS ON THE TABLET EXCEPT ON THE BROAD SIDE ATTACHED TO THE SURFACE OF THE PIPE. ATTACH ALL THE TABLETS AT THE INSIDE TIP OF THE MAIN. WITH APPROXIMATELY EQUAL NUMBERS OF TABLETS AT EACH END OF A GIVEN PIPE LENGTH. IF THE TABLETS ARE ATTACHED BEFORE THE PIPE SECTION IS PLACED IN THE TRENCH, MARK THEIR POSITION ON THE SECTION SO IT CAN BE READILY DETERMINED THAT THE PIPE IS INSTALLED WITH THE TABLETS AT THE TOP.

6) TABLET QUANTITY: REFER TO TABLE 3.

TABLE 3 NUMBER OF TABLETS (1)

PIPE DIAMETER	NUMBER OF
(INCHES)	5g TABLETS (2)
4	1
6	1
8	2
10	3
12	4
16	6
18	7
20	9
24	13

- a) ADJUST FOR PIPE LENGTH OTHER THAN 18 FEET.
- BASED ON 3.25G AVAILABLE CHLORINE PER TABLET.
- FILLING PROCEDURE: WHEN GRANULE OR TABLET INSTALLATION HAS BEEN COMPLETED, FILL THE MAIN WITH CLEAN WATER AT A VELOCITY NOT EXCEEDING 1 FPS. TAKE PRECAUTIONS TO ASSURE THAT AIR POCKETS ARE ELIMINATED. LEAVE THIS WATER IN THE PIPE FOR AT LEAST 24 HOURS. IF THE WATER TEMPERATURE IS LESS THAN 41°F, LEAVE THE WATER IN THE PIPE FOR AT LEAST 48 HOURS. POSITION VALVE SO THAT THE CHLORINE SOLUTION IN THE MAIN BEING TREATED WILL NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE.

ALL BUSHINGS, NIPPLES AND

NSF 61 CERTIFICATION - NO GALVANIZED WILL BE ACCEPTED

FITTINGS SHALL BE BRASS MEETING

EXISTING

BROOKS LID OR EQUAL

2" x 17-1/4" NIPPLE

90° ANGLE CHECK-METER TAIL

90° LOCK WING

BROOKS SERIES 250 METER

EXISTING 2"

SERVICE LINE

FIRE HYDRANT DETAIL

(C) ALL ANCHORS AND SLOCKING TO BEAR AGAINST

IDAHO STANDARDS FOR PUBLIC WORKS

(E) PLACE LOCATOR WIFE SHECTLY ABOVE PIPE SECURE FINGER WIFE SHOER (NJ.) BOLT AT MARK

(F) JOHN RESTRAINT DEVICES MAY BE USED AS AN ALTERNATE TO THRUST BLOCK WITH ENGINEER'S APPROVAL.

ADJUSTABLE CAST

IRON VALVE BOX

2" DOMESTIC WATER METER SETTING

LEGEND

(2) DREAK AWAY DOLTS.

(1) ORAIN - KEEP CLEAR

(1) FRE HYDRAUT (PAINT IN ACCORDANCE WITH LICEAL

S CAST IN PLACE CONCRETE THRUST BLOCK (* SQ. FT. OF THRUST BLOCK REQUIRED) (SEE NOTE S).

CORAIN SOCK EXTENDS 12" HONDOWTALLY FROM EACH SIDE OF CONCRETE DASE AND THROSE BLOCK AND YENTCALLY TO 2" ABOVE HYDRANT DRAWS WALL.

PRECAST CONORETE BLOCK Y'X Y'X 6" THICK.

VALVE SUPPORT (PRECAST OR CAST IN PLACE).

THE (MLX WEX FLANCE) WITH THRUST BLOCK.

🕑 64°8 % 6' CONCRETE COLLAR MITH (2) ፉ REBAR HOOP'S.

STANDARD DRAWING

SD-404

O & CL AUXILIARY VALVE (NU X FLANCE).

(3) S 1/4" LOCKING LO (TYLER NO. 6655).

COVER CRAIN ROCK WITH FILTER FABRIC.

CAST BOX VALVE BOX.

FRESHED GRADE.

(7) MECHANICAL CONNECTION.

SIDEWALK

(2) ST DIAMETER PIPE

FIRE HYDRANT

DETAIL

(3) END OF TRENCH, EDGE OF RIGHT-OF-WAY.

b. CONTINUOUS FEED METHOD.

- 1) SOLUTION STRENGTH: DOSE AT 25MG/L FOR 4 HOURS.
- RESIDUAL: 10 MG/L AT 24 HOURS.
- 3) DOSING METHODS:
 - LIQUID CHLORINE: SOLUTION FEED VACUUM-OPERATED CHLORINATOR IN OMBINATION WITH A BOOSTER PUMP.
- b) DIRECT FEED: NOT ALLOWED.
- HYPOCHLORITE SOLUTION: CHEMICAL FEED PUMP DESIGNED FOR FEEDING CHLORINE SOLUTIONS.
- d) CALCIUM HYPOCHLORITE GRANULES: REFER TO PERVIOUS SECTION.
- FILLING PROCEDURE: USE APPROVED SOURCE TO FLOW CLEAN WATER AT A CONSTANT, MEASURED RATE INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE THE CHLORINE CONCENTRATION AT REGULAR INTERVALS AND ENSURE A 25MG/L DOSE. POSITION VALVES SO THAT THE CHLORINE SOLUTION IN THE MAIN BEING TREATED DOES NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE. DO NOT STOP CHLORINE APPLICATION UNTIL THE ENTIRE MAIN IS FILLED WITH CHLORINATED WATER. RETAIN THE CHLORINATED WATER IN THE MAIN FOR AT LEAST 4 HOURS, OPERATING ALL VALVES AND HYDRANTS IN THE SECTION TREATED. AT THE END OF THE 24-HOUR PERIOD, VERIFY THE TREATED WATER IN ALL PORTIONS OF THE MAIN HAS A RESIDUAL OF 10 MG/L FREE CHLORINE.

c. SLUG METHOD.

- 1) SOLUTION STRENGTH: 100 MG/L.
- 2) DOSING METHODS: PER ENGINEER'S DIRECTION.
- 3) FILLING PROCEDURE: USE APPROVED SOURCE TO FLOW CLEAN WATER AT A CONSTANT, MEASURED RATE INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE CONCENTRATION AT REGULAR INTERVALS TO ENSURE 100MG/L DOSE. APPLY THE CHLORINE CONTINUOUSLY AND FOR THE TIME REQUIRED TO DEVELOP A SOLID COLUMN OR "SLUG" OF CHLORINATED WATER THAT WILL, AS IT MOVES THROUGH THE MAIN, EXPOSE ALL INTERIOR SURFACES TO A 100 MG/L FOR AT LEAST 3 HOURS. MEASURE THE CHLORINE RESIDUAL IN THE SLUG AS IT MOVES THROUGH THE MAIN. IF AT ANY TIME IT DROPS BELOW 50 MG/L. STOP FLOW AND RELOCATE CHLORINATION EQUIPMENT AT THE HEAD OF THE SLUG. AND AS FLOW IS RESUMED. ADD CHLORINE TO RESTORE THE FREE CHLORINE IN THE SLUG TO NOT LESS THAN 100 MG/L. AS THE CHLORINATED WATER FLOWS PAST FITTINGS AND VALVES, OPERATE VALVES AND HYDRANTS TO DISINFECT APPURTENANCES AND PIPE BRANCHES.

C. FINAL FLUSHING.

- AFTER THE RETENTION PERIOD, FLUSH THE CHLORINATED WATER FROM THE MAIN UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT IN THE SYSTEM. OR IS ACCEPTABLE FOR DOMESTIC USE.
- 2. DISPOSE OF FLUSHING WATER TO A LOCATION APPROVED BY THE ENGINEER.

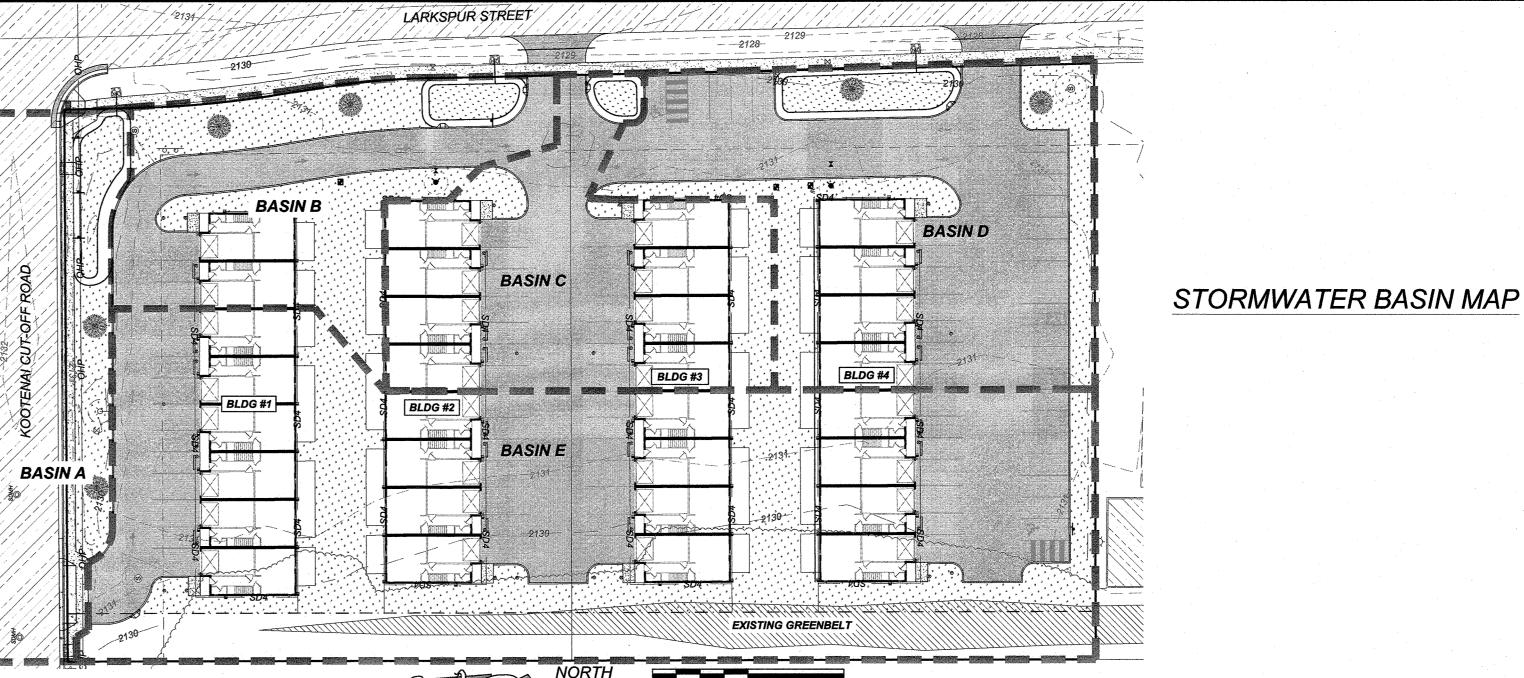
D. BACTERIOLOGICAL TESTS.

- AFTER FINAL FLUSHING AND BEFORE THE WATER MAIN IS PLACED IN SERVICE, TEST SAMPLES COLLECTED FROM THE MAIN(S) FOR COLIFORM BACTERIA. TAKE 2 SAMPLES FROM EACH
- 2. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, COLLECT SAMPLES FROM EACH 1,200 FEET OF IE NEW MAIN AND ONE FROM EACH BRANCH.

- 1. IF THE INITIAL DISINFECTION FAILS TO PRODUCE APPROVED BACTERIOLOGICAL SAMPLES, REFLUSH AND RESAMPLE THE MAIN.
- 2. IF CHECK SAMPLES SHOW BACTERIAL CONTAMINATION, RE-CHLORINATE THE MAIN UNTIL APPROVED RESULTS ARE OBTAINED.

F. SWABBING.

IF CONNECTIONS ARE NOT DISINFECTED ALONG WITH THE NEWLY INSTALLED MAIN, SWAB OR SPRAY THE INTERIOR OF ALL PIPE AND FITTINGS USED IN MAKING THE CONNECTIONS WITH A 1% HYPOCHLORITE SOLUTION BEFORE INSTALLATION.



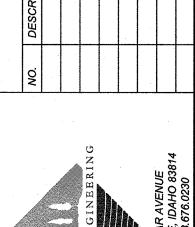
FINISH GRADE

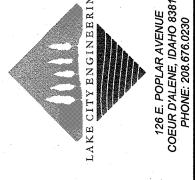
2" BRASS PIPE

NIPPLE WITH CAP EXTEND

5' PAST METER BOX

2" POLY TO BUILDING







 $C_{imp} = 0.9$; $C_{grass} = 0.4$ C = ((0.9*0.182 ac) + (0.4*0.072 ac)) / 0.254 ac = 0.76A = 11080 sf / 0.254 acres

 $Q_{25} = (0.76)*(2.8 in/hr)*(0.254 acres)$

 $Q_{25} = CiA (RATIONAL METHOD)$

A = BASIN AREA

 $Q_{25} = (0.4)*(2.8 in/hr)*(2.39 acres)$

 $C_{imp} = 0.9$; $C_{grass} = 0.4$

 $i = 2.8 \text{ in/hr } (T_c \leq 5 \text{ min.})$

PREDEVELOPMENT - LOTS 1 & 2

 $Q_{25} = 0.54 \text{ cfs}$ TREATMENT VOLUME REQUIRED = (7,928) (1/2") / 12" = 330 cf TREATMENT AREA PROVIDED = 730 sf (@ 6" = 365 cf)

STORMWATER CALCULATIONS

 $Q_{25} = 2.68 \text{ cfs}$

SCALE: 1" = 40'

 $C_{imp} = 0.9$; $C_{grass} = 0.4$ C = ((0.9*0.101 ac) + (0.4*0.167 ac)) / 0.269 acres = 0.59A = 11722 sf = 0.269 acres

 $Q_{25} = (0.59)*(2.8 in/hr)*(0.269 acres)$ $Q_{25} = 0.44 \text{ cfs}$

TREATMENT VOLUME REQUIRED = (4,418) (1/2") / 12" = 181 cf TREATMENT AREA PROVIDED = 520 sf (@ 6" = 260 cf)

 $C_{imp} = 0.9$; $C_{grass} = 0.4$ C = ((0.9*0.140 ac) + (0.4*0.053 ac)) / 0.193 acres = 0.76A = 8407 sf = 0.193 acres $Q_{25} = (0.76)*(2.8 \text{ in/hr})*(0.193 \text{ acres})$ $Q_{25} = 0.41 \text{ cfs}$ TREATMENT VOLUME REQUIRED = (8,407) (1/2") / 12" = 344 cf TREATMENT AREA PROVIDED = 345 sf (@ 12" = 345 cf)

 $C_{imp} = 0.9$; $C_{grass} = 0.4$ C = ((0.9*0.267 ac) + (0.4*0.075 ac)) / 0.342 acres = 0.79A = 14886 sf = 0.342 acres $Q_{25} = (0.79)*(2.8 \text{ in/hr})*(0.342 \text{ acres})$ $Q_{25} = 0.75 \text{ cfs}$ TREATMENT VOLUME REQUIRED = (11,638) (1/2") / 12" = 477 cf TREATMENT AREA PROVIDED = 1,052 sf (@, 6" = 526 cf)

 $C_{imp} = 0.9$; $C_{grass} = 0.4$ C = ((0.9*0.326 ac) + (0.4*0.481 ac)) / .807 acres = 0.60A = 35152 sf = .807 acres

 $Q_{25} = (0.60)*(2.8 in/hr)*(0.60 acres)$ $Q_{25} = 1.35 \text{ cfs}$

TREATMENT VOLUME REQUIRED = (14,197) (1/2") / 12" = 582 cf ASSUMED TREATMENT AREA PROVIDED = 7,000+ sf (@ 6" = 3,500+ cf) BASIN E TO DRAIN TO EXISTING GREENBELT DRAINAGE AREA

*STORM RAINAGE RUNOOFF COLLECTED FROM ALL BUILDINGS IS TO BE COLLECTED VIA ROOF GUTTERS AND DOWNSPOUTS AND PIPED AND DAYLIGHTED IN THE EXISTING GREENBELT DRAINAGE AREA.

STORMWATER NOTE STORMWATER CALCULATIONS SHOWN HEREON FOR REFERENCE ONLY. THIS LOT IS PART OF A MASTER STORMWATER PLAN FOR THE ALDER CREEK SUBDIVISION THAT HAS BEEN PREVIOUSLY APPROVED BY THE

BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

CITY OF PONDERAY.

DESIGNED BY: DRAFTED BY: JOB NO: ONE-CALL NUMBER CALL TWO BUSINESS DAYS

GDH/SMA 03/16/2020 LCE 19-007

ONE INCH

AT FULL SIZE IF NOT

ONE INCH SCALE

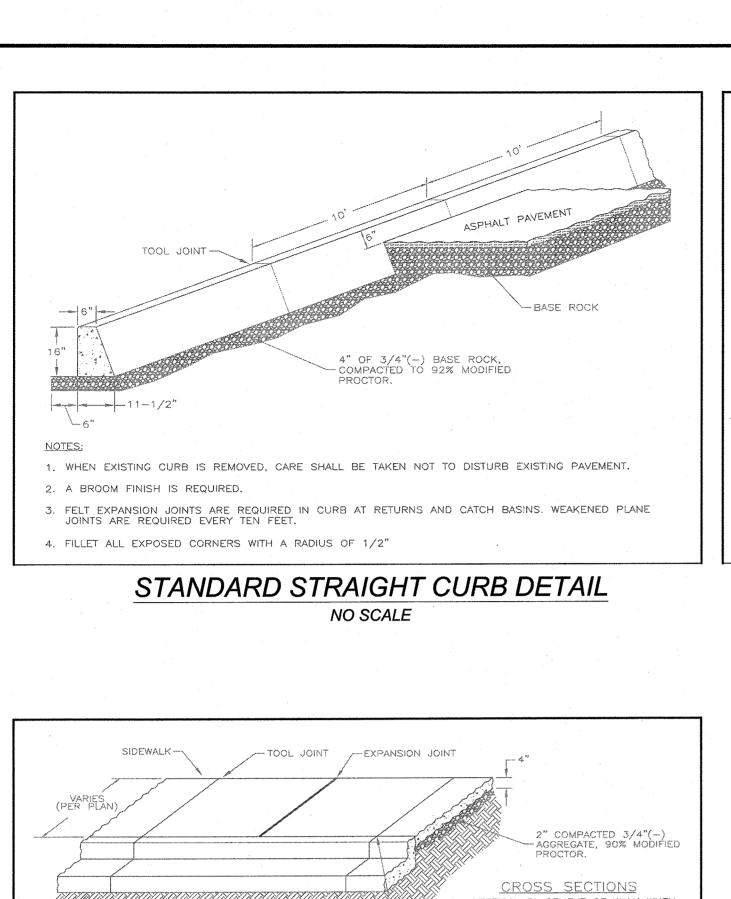
ACCORDINGLY

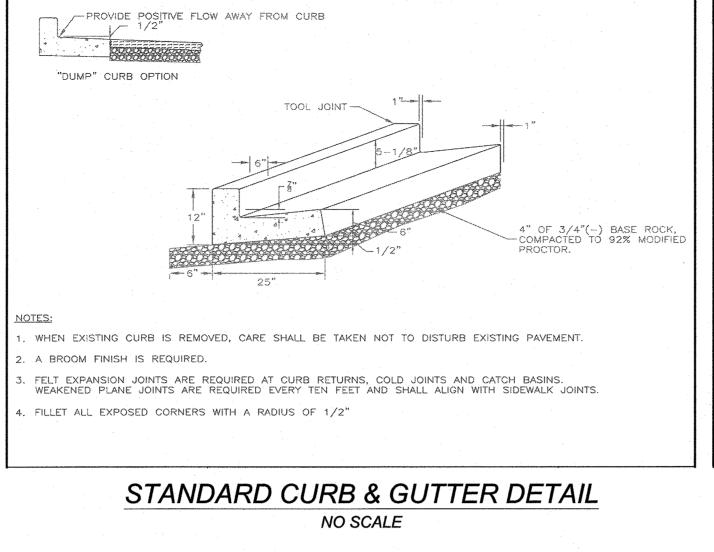
Ш

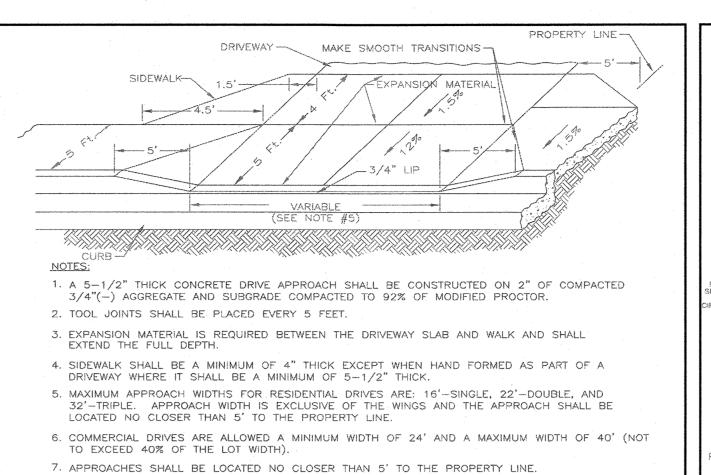
E

P

Ш



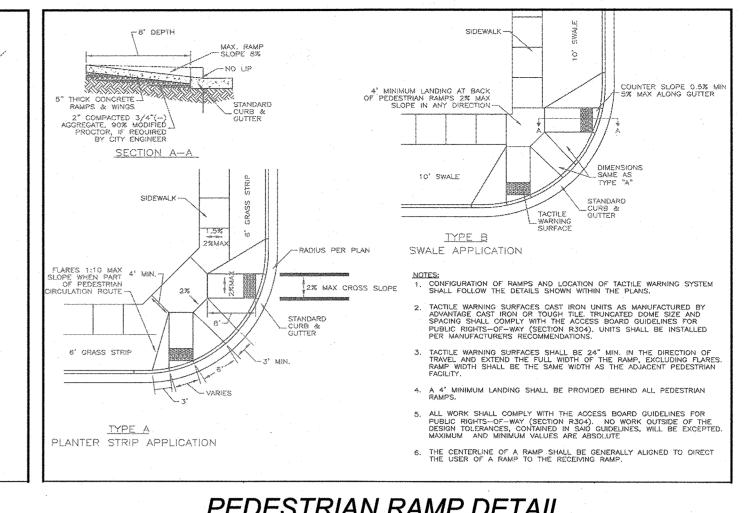




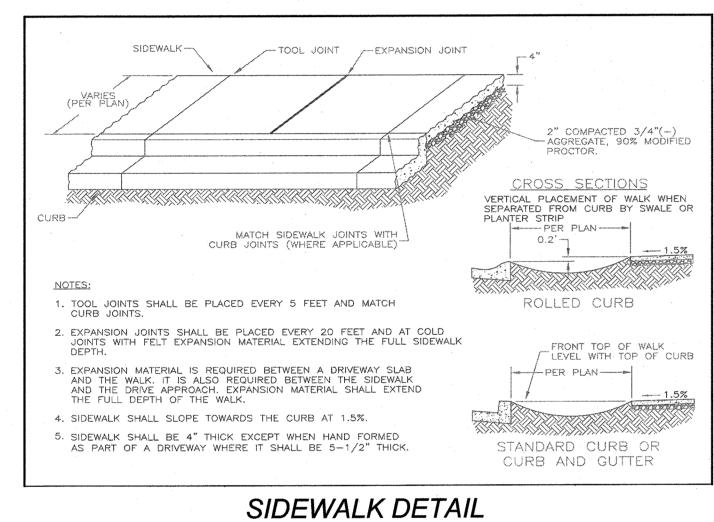
DRIVEWAY APPROACH DETAIL

NO SCALE

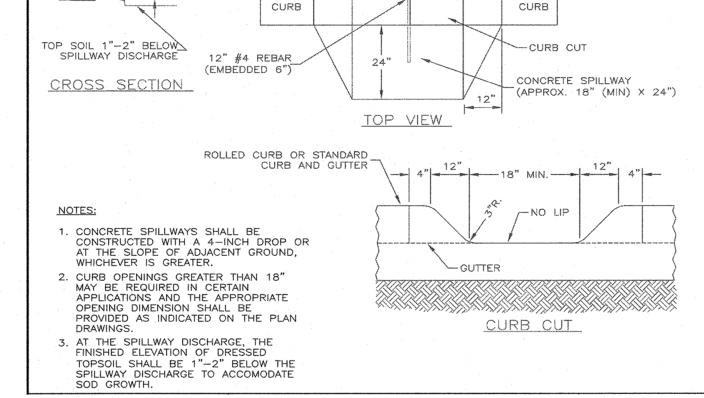
8. SIDEWALK SHALL SLOPE 1.5% TOWARD ROAD.



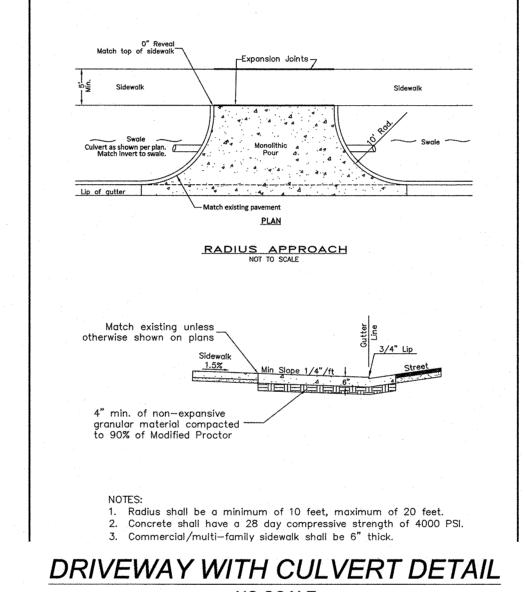
PEDESTRIAN RAMP DETAIL NO SCALE

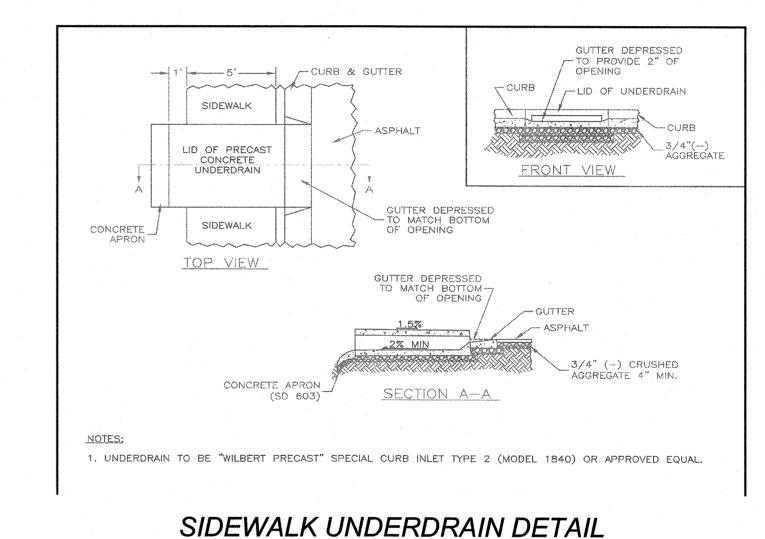


NO SCALE



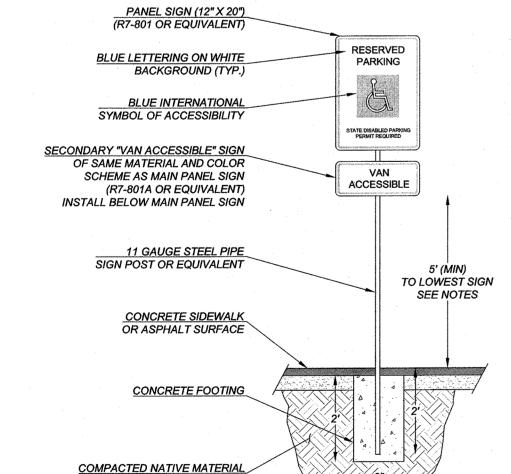
GUTTER

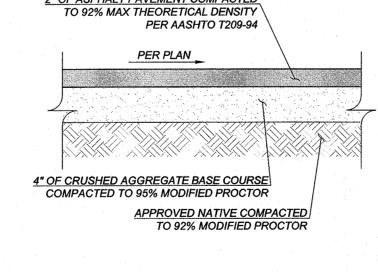


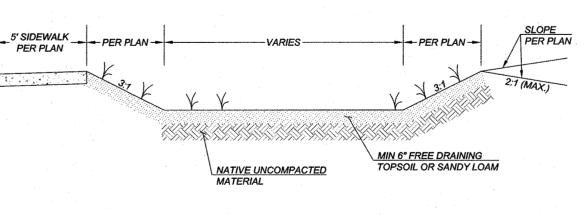


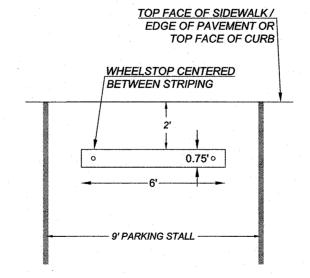
NO SCALE

NO SCALE









SIGNS CAN BE MOUNTED TO BUILDING WALL. LOWEST SIGN TO BE MOUNTED 5' MIN. FROM FINISH SURFACE. SIGN HEIGHT PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC A117.1-2009 SECTION 307.3.

ADA SIGNAGE DETAIL

2) DO NOT COMPACT TOPSOIL LAYER. CONTRACTOR TO BE HELD RESPONSIBLE.

DESIGNED BY: DRAFTED BY: JOB NO: UNDERGROUND SERVICE ALERT ONE-CALL NUMBER CALL TWO BUSINESS DAYS

DRAINAGE CURB CUT DETAIL NO SCALE

WHEEL STOP DETAIL

03/16/2020 LCE 19-007

OWN

REEK

ONE INCH

AT FULL SIZE IF NOT

ONE INCH SCALE

ACCORDINGLY

1) INFILTRATION RATES SHALL EXCEED 2 IN/HR.

GRASSY INFILTRATION AREA DETAIL

2" OF ASPHALT PAVEMENT COMPACTED

TYPICAL PAVEMENT SECTION

NOTES

3) SWALE SHALL BE HYDROSEEDED WITH APPROPRIATE GRASS MIXTURE IN ACCORDANCE WITH BMP #35.