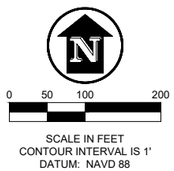
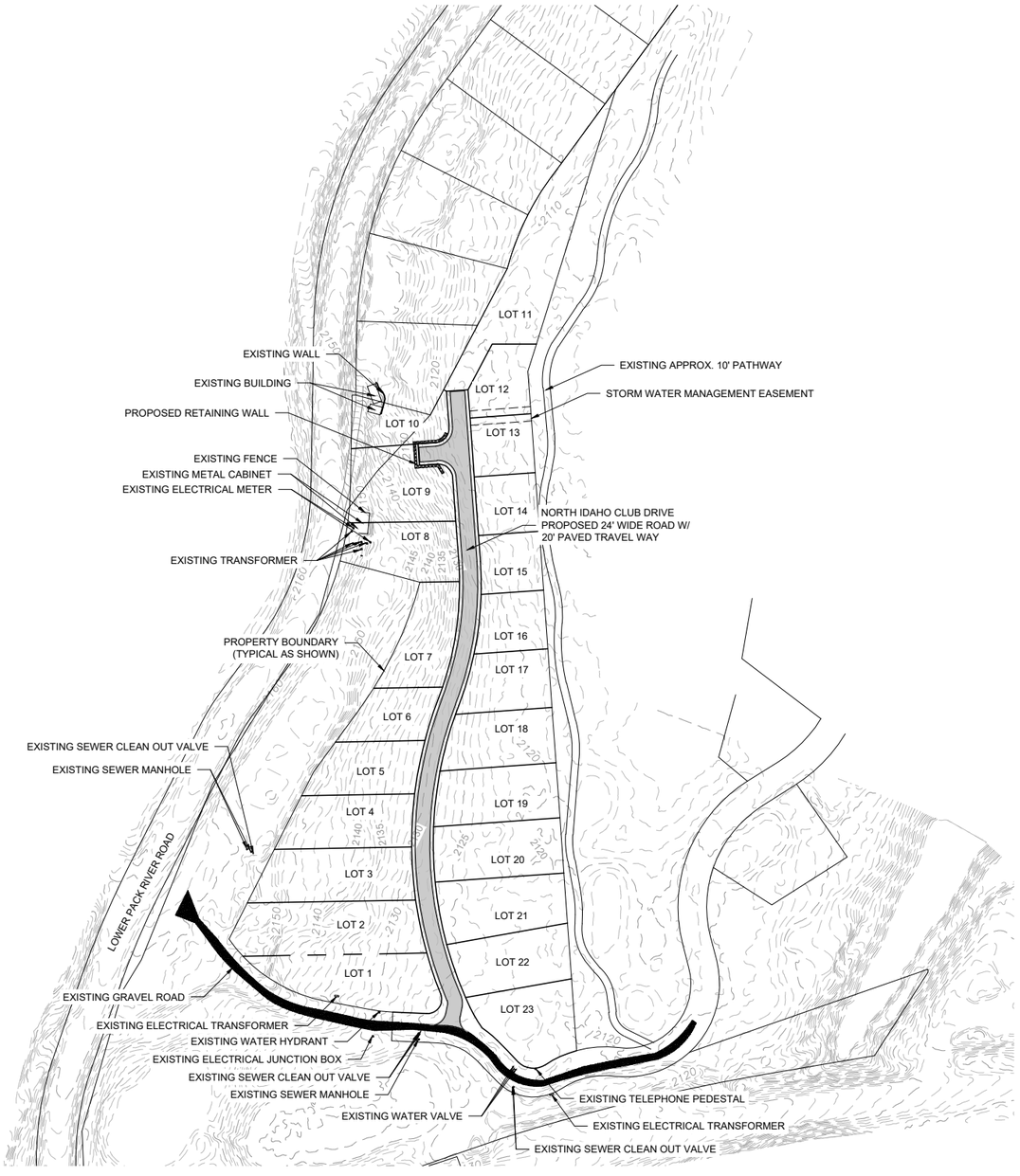
# REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDITION
# GRADING AND STORM WATER MANAGEMENT PLAN

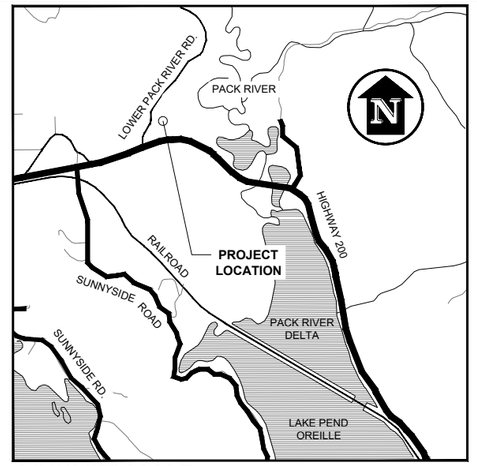
## (LOT 2 GOLDEN TEE ESTATES 11TH ADDITION)

## SECTION 36, TOWNSHIP 58 NORTH, RANGE 1 WEST, BOISE MERIDIAN, BONNER COUNTY, IDAHO




SCALE IN FEET
CONTOUR INTERVAL IS 1'
DATUM: NAVD 88




VICINITY MAP
NOT TO SCALE

## DRAWING INDEX


| SHEET # | TITLE |
|---|---|
| 1 | COVER SHEET AND EXISTING CONDITIONS |
| 2 | LEGEND AND SPECIFICATIONS |
| 3 | ROAD PLAN AND PROFILE STA 1+00 TO 6+00 |
| 4 | ROAD PLAN AND PROFILE STA 6+00 TO 10+009 |
| 5 | HAMMERHEAD PLAN, PROFILE, AND SECTION |
| 6 | ROADWAY SECTIONS |
| 7 | ROADWAY SECTIONS |
| 8 | STORM WATER MANAGEMENT AND EROSION CONTROL PLAN |
| 9 | DETAILS |
| 10 | DETAILS |


## NOTES

- ALL WORK SHALL CONFORM TO THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, BONNER COUNTY CODE, AND THE PROJECT SPECIFICATIONS SHOWN ON THESE PLANS.
- CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING SITE ELEMENTS SHOWN ON THESE PLANS, INCLUDING UTILITIES, SURFACE FEATURES, AND TOPOGRAPHY. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- CONTRACTOR SHALL CONTACT ENGINEER FOR A SITE INSPECTION AT LEAST 3 DAYS IN ADVANCE OF THE FOLLOWING PHASES OF CONSTRUCTION:
  - PRIOR TO GROUND DISTURBANCE AND AFTER TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED
  - AFTER THE PROJECT HAS BEEN COMPLETED, INCLUDING ESTABLISHMENT OF RE-VEGETATION
- DUE TO VARIABILITY IN PROPOSED HOUSE FOOTPRINTS AND IMPERVIOUS SURFACES, INDIVIDUAL LOT RUNOFF HAS NOT BEEN CONSIDERED AS PART OF THIS STORMWATER PLAN. THOSE OBTAINING BUILDING LOCATION PERMITS FOR INDIVIDUAL HOME SITES MAY BE REQUIRED TO PREPARE A STORMWATER MANAGEMENT PLAN FOR SUBMITTAL TO BONNER COUNTY.
- PROPERTY CORNERS AND OTHER SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. DISTURBED MONUMENTS SHALL BE REPLACED BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- DESIGN ELEVATIONS SHOWN IN THESE DRAWINGS ARE BASED ON TOPOGRAPHY PROVIDED BY WELCH COMER ENGINEERING.

**CALL**
2 WORKING DAYS
**BEFORE YOU DIG!**

Bonner Boundary One Call
**811**

PROFESSIONAL ENGINEER REGISTERED 8607 7/26/2024 STATE OF IDAHO B SCOTT BROWN

| No. | DATE: | REVISION | DRN/CHK |
|---|---|---|---|


James A. Sewell and Associates, LLC
1319 NORTH DIVISION AVENUE
SANDPOINT, IDAHO 83864
(208) 263-4160


SHEET TITLE: COVER SHEET AND EXISTING CONDITIONS

PROJECT: IDAHO CLUB, REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDN. BONNER COUNTY, IDAHO

| | |
|---|---|
| DATE: | 07-03-2024 |
| SCALE: | AS SHOWN |
| DESIGNED: | BSB |
| DRAWN: | NCF |
| CHECKED: | BSB |
| PROJ NO.: | 14127-23-001 |
| CAD FILE: | E-NICD |

**GENERAL SPECIFICATIONS:**

GENERAL - ALL CONSTRUCTION SHALL CONFORM TO THE 2020 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION MANUAL (ISPWC), INTERNATIONAL FIRE CODE, AND THE BONNER COUNTY PRIVATE ROAD STANDARDS.

CLEARING AND GRUBBING - CLEARING AND GRUBBING SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 201 OF THE ISPWC. CLEARED AND GRUBBED MATERIAL SHALL BE RE-USED ON SITE FOR CONSTRUCTION OF GRASS INFILTRATION BASINS AND ROADSIDE DITCHES.

CUT AND FILL SLOPE STABILITY - FILL SLOPES SHALL NOT EXCEED 2:1 UNLESS OTHERWISE NOTED IN THESE PLANS. FINAL CUT SLOPES SHALL BE EVALUATED IN THE FIELD DURING CONSTRUCTION BY THE PROJECT GEOTECHNICAL ENGINEER.

CUT AND FILL SLOPE EASEMENTS - CATCH LINE LOCATIONS OF CUT AND FILL SLOPES SHALL BE SURVEYED AFTER CONSTRUCTION. EASEMENTS AS SHOWN IN THESE DRAWINGS SHALL BE ADJUSTED TO INCLUDE AS-BUILT CUT AND FILL SLOPES AND SHOWN ON THE SUBDIVISION PLAT.

EXCESS EXCAVATION - EXCESS EXCAVATION SHALL REMAIN ON-SITE AND BE PLACED WHERE DIRECTED BY THE OWNER OR THE ENGINEER.

MATERIAL STOCK PILES - ALL ERODABLE STOCK PILED MATERIALS SHALL BE COVERED WITH TARPS AND SECURED, OR THE BASE OF THE STOCK PILES SHALL BE SURROUNDED BY SILT FENCE.

GEOTEXTILE - GEOTEXTILE SHALL BE GEOTEX 200ST OR APPROVED EQUAL.

COMPACTION - DENSITY TESTS SHALL BE PERFORMED FOR EVERY LIFT AT A MINIMUM FREQUENCY OF 300 LINEAR FEET, FOR ALL MATERIALS. SPECIAL ATTENTION SHALL BE PAID TO CURVE RETURNS, TURNAROUNDS OR SENSITIVE AREAS. ALL TEST RESULTS SHALL BE MADE AVAILABLE TO THE ENGINEER AT THE TIME OF FINAL CONSTRUCTION/INSPECTION.

CULVERTS - CULVERTS SHALL BE CORRUGATED METAL PIPE OR ADS TYPE N-12, SIZED AS SHOWN ON THE PLANS, OR OTHERWISE SPECIFIED BY ENGINEER. CULVERTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 601 OF THE ISPWC, ALONG WITH SECTIONS 301 (TRENCH EXCAVATION), 304 (TRENCH FOUNDATION STABILIZATION), 305 (PIPE BEDDING), AND 306 (TRENCH BACKFILL). PROVIDE MINIMUM 12 INCH COVER OR AS RECOMMENDED BY THE MANUFACTURER.

INSPECTIONS - INSPECTIONS SHALL BE SCHEDULED WITH THE ENGINEER AT LEAST 24 HOURS IN ADVANCE. MINIMUM INSPECTION REQUIREMENTS INCLUDE:

- AFTER COMPLETIONS OF CONSTRUCTION STAKING
- COMPLETION OF SUBGRADE, PRIOR TO PLACEMENT OF BALLAST
- AFTER PLACEMENT OF THE BALLAST, BUT PRIOR TO PLACEMENT OF THE TOP COURSE
- AFTER PLACEMENT OF TOP COURSE, BUT PRIOR TO PAVING
- AFTER ALL IMPROVEMENTS ARE COMPLETE, INCLUDING PAVING AND CONSTRUCTION OF STORM WATER FACILITIES

EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION - THE CONTRACTOR AND DEVELOPER ARE ENTIRELY RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL METHODS AND STORMWATER MANAGEMENT PLAN CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH WITHIN THE "HANDBOOK OF BEST MANAGEMENT PRACTICES FOR STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL CONTROL" (HANDBOOK), AS PREPARED FOR THE PANHANDLE HEALTH DISTRICT AND THE INTERAGENCY STORMWATER COMMITTEE. IF REQUIRED, THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR OBTAINING A CONSTRUCTION GENERL PERMIT FOR CONSTRUCTION ACTIVITIES FROM THE DEQ NATIONAL DISCHARGE ELIMINATION SYSTEM PROGRAM. EROSION AND SEDIMENT CONTROL SHALL BE ACCOMPLISHED AS SHOWN ON THESE PLANS, WITH ALL METHODS IN ACCORDANCE WITH THE GUIDELINES AS DESCRIBED IN THE HANDBOOK.

TEMPORARY EROSION CONTROL BMP'S CONSIST OF: VEGETATIVE BUFFER, GRASS DITCH, GRASS INFILTRATION BASIN, & STABILIZED CONSTRUCTION ENTRANCE, SEEDING/MULCHING.

GRASS DITCH MAINTENANCE:

- PERIODICALLY INSPECT DITCH AND REMOVE SEDIMENT DEEPER THAN 6 INCHES
- RE-ESTABLISH ANY VEGETATION THAT IS DAMAGED DURING HIGH-RUNOFF EVENTS

GRASS INFILTRATION BASIN MAINTENANCE:

- PERIODICALLY INSPECT BASIN AND REMOVE SEDIMENT DEEPER THAN 6 INCHES
- RE-ESTABLISH ANY VEGETATION THAT IS DAMAGED DURING HIGH-RUNOFF EVENTS

STABILIZED CONSTRUCTION ENTRANCE MAINTENANCE:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY OR ADJACENT STREET. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY OR ADJACENT STREET MUST BE REMOVED IMMEDIATELY.
- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY OR ADJACENT STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND ASSOCIATED MAINTENANCE SHALL BE PROVIDED AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT.
- THE STABILIZED CONSTRUCTION ENTRANCE MAY BE REMOVED AFTER FINAL STABILIZATION IS ACHIEVED.

SEEDING/STRAW MULCH MAINTENANCE:

- RE-SEED OR ADD STRAW MULCH TO BARE SPOTS AND WASHOUTS, AND VERIFY HEALTHY GROWTH OF SEEDS

## 4.1 GENERAL EARTHWORK SPECIFICATIONS

**ROADWAY SPECIFICATIONS:**

SUBGRADE

A. THE SUB GRADE SHALL CONSIST OF THE NATURAL MATERIALS REMAINING AFTER ALL TOPSOIL AND DUFF (ORGANIC MATERIAL) HAS BEEN REMOVED AND GOOD CONSTRUCTION MATERIAL IS REMAINING. THE EXTENT OF THE EXCAVATION NECESSARY TO EXPOSE THE SUB GRADE SHALL BE DETERMINED BY THE PROJECT ENGINEER. SOIL AND COMPACTION TESTS ARE REQUIRED BY THE BONNER COUNTY ROAD AND BRIDGE DEPARTMENT TO DOCUMENT THE ACCEPTABILITY FOR CONSTRUCTION. ALL TESTING SHALL BE AT THE EXPENSE OF THE DEVELOPER.

B. IN SOLID ROCK EXCAVATION, THE SOLID ROCK SHALL BE EXCAVATED 6 INCHES BELOW THE FINISHED SUB GRADE ELEVATION AND BACKFILLED WITH APPROVED GRANULAR MATERIAL.

C. UNSTABLE SUB GRADE CONDITIONS SHALL BE REMEDIED BY SUB EXCAVATION AND BACKFILLING WITH APPROVED MATERIAL UNDER THE DIRECTION OF THE PROJECT ENGINEER. GEO-SYNTHETIC MATERIALS MAY BE REQUIRED A DESIGNATED REPRESENTATIVE, OR THE PROJECT ENGINEER.

D. ALL CONSTRUCTION SHALL BE CONTROLLED BY SLOPE STAKES OR GRADE STAKES AS REQUIRED, PLACED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER OR SURVEYOR LICENSED IN THE STATE OF IDAHO.

E. SUB GRADE SHALL BE COMPACTED TO A DENSITY NO LESS THAN 95% OF AN ASTM D698 PROCTOR DENSITY.

BALLAST SECTION

A. ALL UNDERGROUND UTILITIES OR CONDUIT CROSSING THE ROAD OR IN THE ROAD RIGHT-OF-WAY TO BE INSTALLED BEFORE ANY BALLAST MATERIAL.

B. PIT RUN MATERIAL SHALL BE USED FOR THE BASE COURSE WHICH HAS A SAND EQUIVALENT OF NOT LESS THAN THIRTY (30), AND WHICH MEETS THE FOLLOWING COUNTY GRADUATIONS:

| SIEVE SIZE | PERCENT PASSING |
|---|---|
| 6 INCH | 100 |
| 3 INCH | 98 -- 100 |
| 2 INCH | 75 -- 100 |
| 1 INCH | 40 -- 80 |
| #4 | 25 -- 60 |
| #200 | 5 -- 12 |

(THE ENGINEER MAY APPROVE OTHER MATERIALS TO BE USED FOR BALLAST,SUCH AS CLASS-1 2.5" CAP ROCK OR ISPWC TYPE-2 CRUSHED AGGREGATE)

C. THE BALLAST MATERIAL SHALL BE PLACED IN LOOSE EIGHT INCH (8") LIFTS AND SHALL BE COMPACTED USING MECHANICAL METHODS TO AT LEAST NINETY-FIVE PERCENT (95%) OF THE ASTM D-698 PROCTOR DENSITY.

TOP COURSE

A. CRUSHED AGGREGATE SHALL BE USED FOR THE TOP COURSE WHICH MEETS THE FOLLOWING COUNTY GRADUATIONS:

| SIEVE SIZE | % PASSING |
|---|---|
| 1" | 100 |
| 3/4" | 90-100 |
| #4 | 40-65 |
| #8 | 30-50 |
| #200 | 3-9 |

(THE ENGINEER MAY APPROVE OTHER MATERIALS TO BE USED FOR THE TOP COURSE SUCH AS ISPWC TYPE-1 CRUSHED AGGREGATE)

B. AT LEAST SIXTY PERCENT (60%) OF THE CRUSHED AGGREGATE PARTICLES RETAINED ON THE NO. 4 SIEVE SHALL HAVE AT LEAST ONE (1) FRACTURED FACE. TYPE-1 CRUSHED AGGREGATE AS SPECIFIED IN THE ISPWC IS ALSO ACCEPTABLE.

C. THE LOS ANGELES ABRASION TEST MAY BE REQUIRED TO ENSURE THE TOP COURSE AGGREGATE DOES NOT SHOW MORE THAN A LOSS OF THIRTY-FIVE PER CENT (35%).

D. SAND EQUIVALENT SHALL NOT BE LESS THAN 30.THE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 6" IN DEPTH AND COMPACTED TO THE APPROVED DESIGN DEPTH. THE MATERIAL SHALL BE MECHANICALLY COMPACTED BY ROLLING TO NINETY-FIVE PERCENT (95%) OF THE ASTM D698 PROCTOR DENSITY. CARE SHALL BE TAKEN TO SEE THAT THE AGGREGATE IS PLACED IN SUCH A MANNER THAT IT WILL HAVE UNIFORM MIXTURE THROUGHOUT.

E. PRIOR TO PLACING TOP COURSE MATERIAL ON THE BALLAST THE ENGINEER, OR DESIGNATED REPRESENTATIVE SHALL HAVE THE OPPORTUNITY TO OBSERVE AND APPROVE THE BALLAST. THE NOTIFICATION FOR THE OBSERVATION MUST BE TWENTY-FOUR (24) HOURS PRIOR TO THE OBSERVATION.

F. PRIOR TO REQUESTING OBSERVATION OF THE FINISHED TOP COURSE MATERIAL, BLUE TOP STAKES WILL BE SET TO FINISHED BASE ELEVATIONS AT FIFTY FOOT (50') STATIONING ON CURVES AND ONE HUNDRED FOOT (100') STATIONING ON TANGENTS AT CENTERLINE AND SHOULDERS.

HOT MIX ASPHALT SURFACING

A. PRIOR TO PLACING ANY ASPHALT MATERIAL ON THE TOP COURSE, THE ENGINEER, OR DESIGNATED REPRESENTATIVE, SHALL HAVE THE OPPORTUNITY TO OBSERVED AND APPROVE THE TOP COURSE. THE PLACEMENT OF THE ASPHALT MATERIAL MUST BE OBSERVED AND APPROVED BY ENGINEER.

B. THE MIX USED FOR THE HOT MIX ASPHALT CONCRETE SHALL BE SUPER PAVE, SP-3, PG58-28 PER ITD SPECIFICATIONS A05. WORKMANSHIP AND MATERIALS SHALL BE PER ISPWC DIVISION 800 MIX DESIGN CHARACTERISTICS MUST BE SUBMITTED AND APPROVED BY THE ENGINEER.

C. THE ASPHALT MIX SHALL BE LAID ONLY WHEN THE AMBIENT AIR TEMPERATURE IS GREATER THAN 45 DEGREES FAHRENHEIT AND RISING AND THE MIX IS AT A TEMPERATURE AS SPECIFIED BY ITD.

D. COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED TECHNICIAN. COMPACTION RESULTS SHALL BE SUBMITTED TO THE ENGINEER.

## 4.2 ROADWAY SPECIFICATIONS

## LEGEND

- PROPERTY LINE
- PROPERTY LINE (OTHERS)
- EASEMENT
- SETBACK
- 2056 EXISTING CONTOUR
- SILT FENCE
- EXISTING CONCRETE
- EXISTING ASPHALT
- EXISTING GRAVEL
- EXISTING CURB AND GUTTER
- PROPOSED TREE
- PROPOSED SIGN
- EXISTING FENCE
- EXISTING DITCH
- W8 EXISTING WATER MAIN
- WM EXISTING WATER METER
- EXISTING VALVE
- EXISTING HYDRANT
- EXISTING SANITARY SEWER MAIN
- S EXISTING SEWER MANHOLE
- BE EXISTING BURIED ELECTRIC
- AE EXISTING AERIAL ELECTRIC
- E ELECTRICAL BOX
- HH HAND HOLE
- UTILITY POLE
- PROPOSED LIGHT POLE
- EXISTING GUY WIRE
- EXISTING TELEPHONE
- T EXISTING TELEPHONE PEDESTAL
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED CURB AND GUTTER
- PROPOSED DITCH INVERT
- PROPOSED RIP RAP
- W8 PROPOSED WATER MAIN
- WS PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- WM PROPOSED WATER METER
- PROPOSED HYDRANT
- W PROPOSED WELL
- S PROPOSED SANITARY SEWER MAIN
- SS PROPOSED SANITARY SEWER SERVICE
- S PROPOSED SEWER MANHOLE
- SD PROPOSED STORM DRAIN PIPE
- PROPOSED STORM WATER SWALE
- PROPOSED STORM INLET (GRATED LID)
- D PROPOSED STORM MANHOLE (SOLID LID)
- BE PROPOSED BURIED ELECTRIC
- G PROPOSED GAS
- C PROPOSED COMMUNICATIONS (TELEPHONE, CABLE, ETC.)
- FOUND SURVEY MONUMENT/MARKER
- DETECTABLE WARNING PANEL

PROFESSIONAL ENGINEER REGISTERED 8607 12/26/2024 STATE OF IDAHO B. SCOTT BROWN

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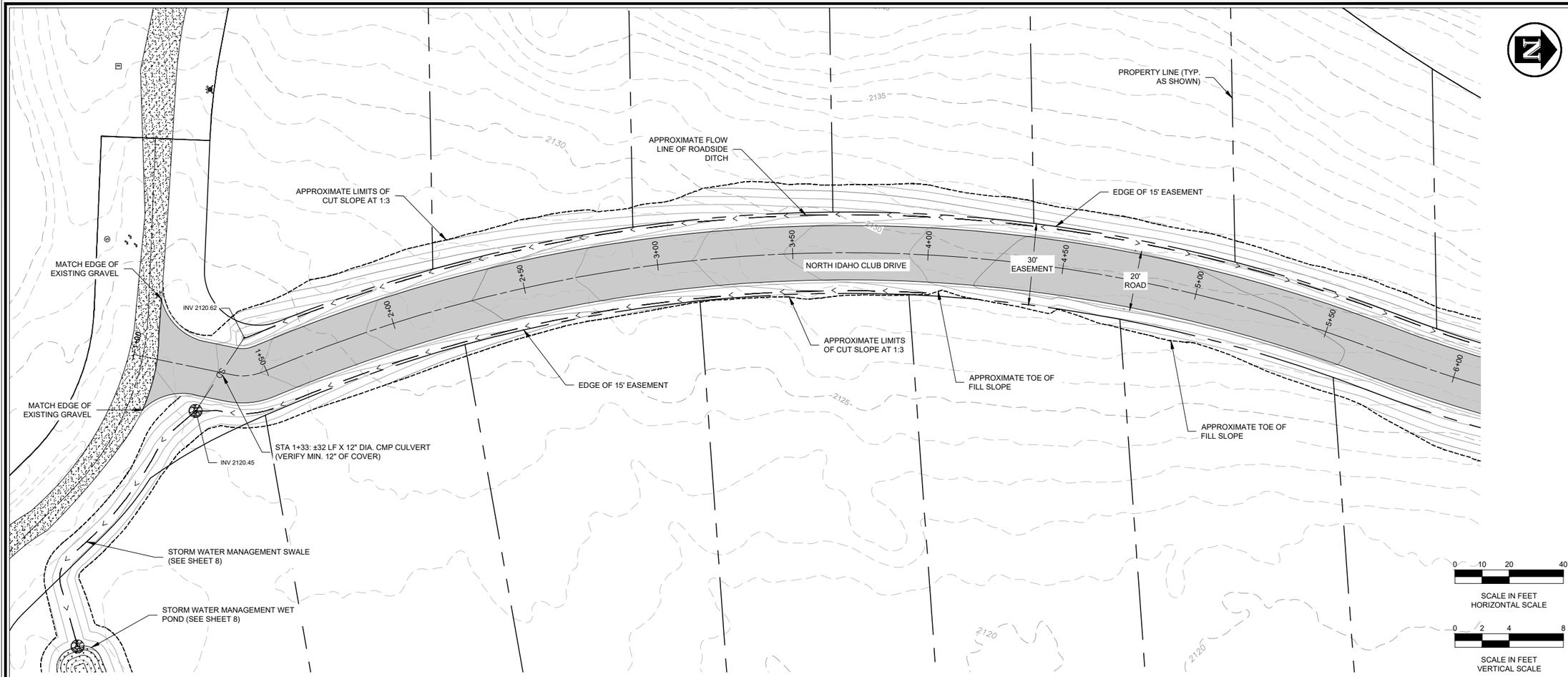
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SANDPOINT, IDAHO 83864
(208) 263-4160

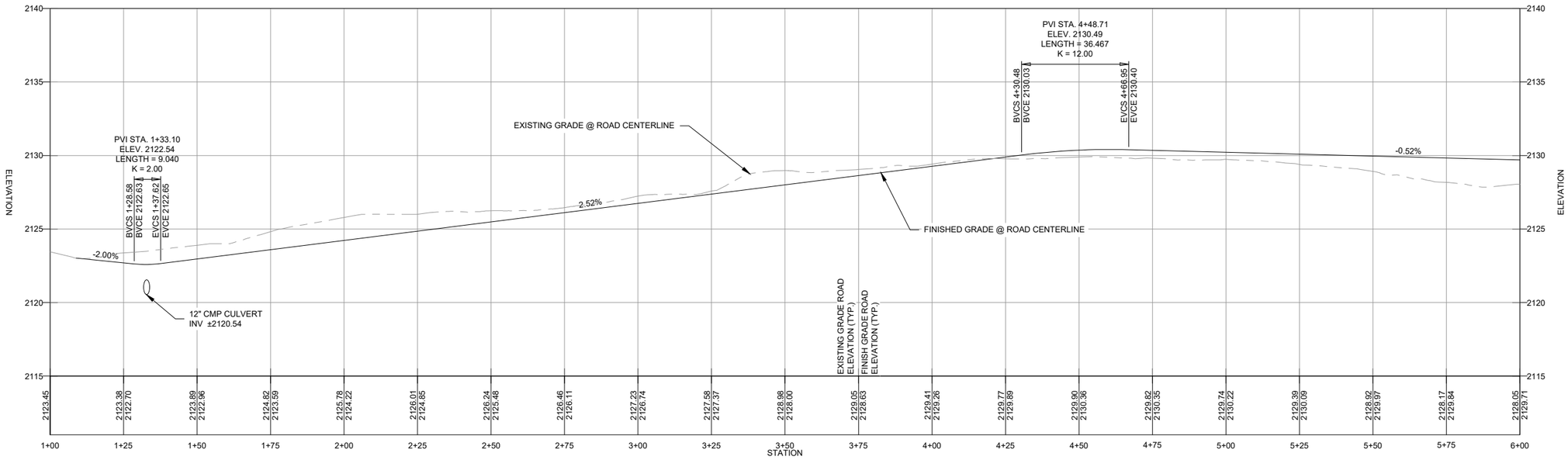
JAMES A. SEWELL AND ASSOCIATES LLC

SHEET TITLE: LEGEND AND SPECIFICATIONS

PROJECT: IDAHO CLUB, REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDN. BONNER COUNTY, IDAHO

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| DATE: | 07-03-2024 |
| SCALE: | AS SHOWN |
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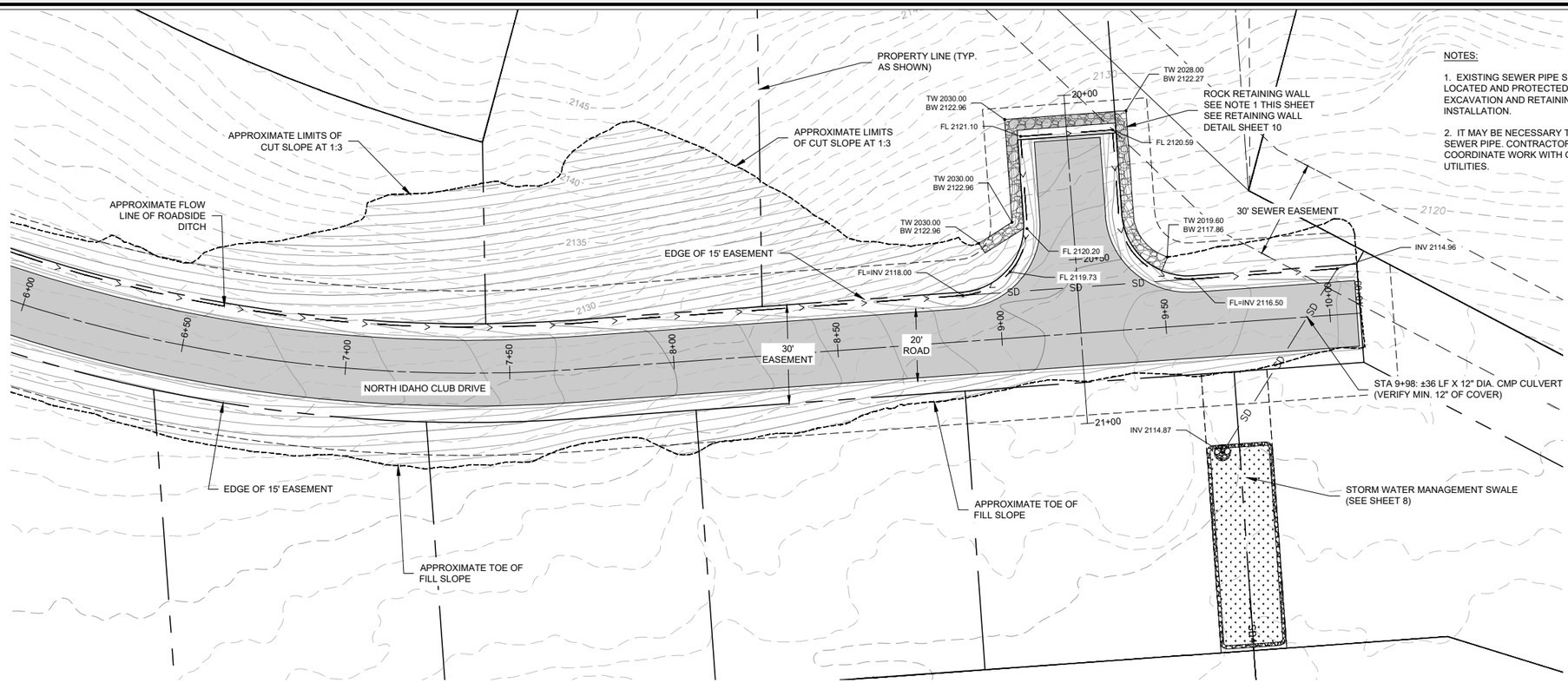
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1319 NORTH DIVISION AVENUE
SANDPOINT, IDAHO 83864
(208) 263-4160

SHEET TITLE: **ROAD PLAN AND PROFILE STA 1+00 to 6+00**

PROJECT: **IDAHO CLUB, REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDN. BONNER COUNTY, IDAHO**

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| DATE: | 07-03-2024 |
| SCALE: | AS SHOWN |
| DESIGNED: | BSB |
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| CHECKED: | BSB |
| PROJ NO.: | 14127-23-001 |
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SHEET 3 OF 10




NOTES:

1. EXISTING SEWER PIPE SHALL BE LOCATED AND PROTECTED DURING EXCAVATION AND RETAINING WALL INSTALLATION.

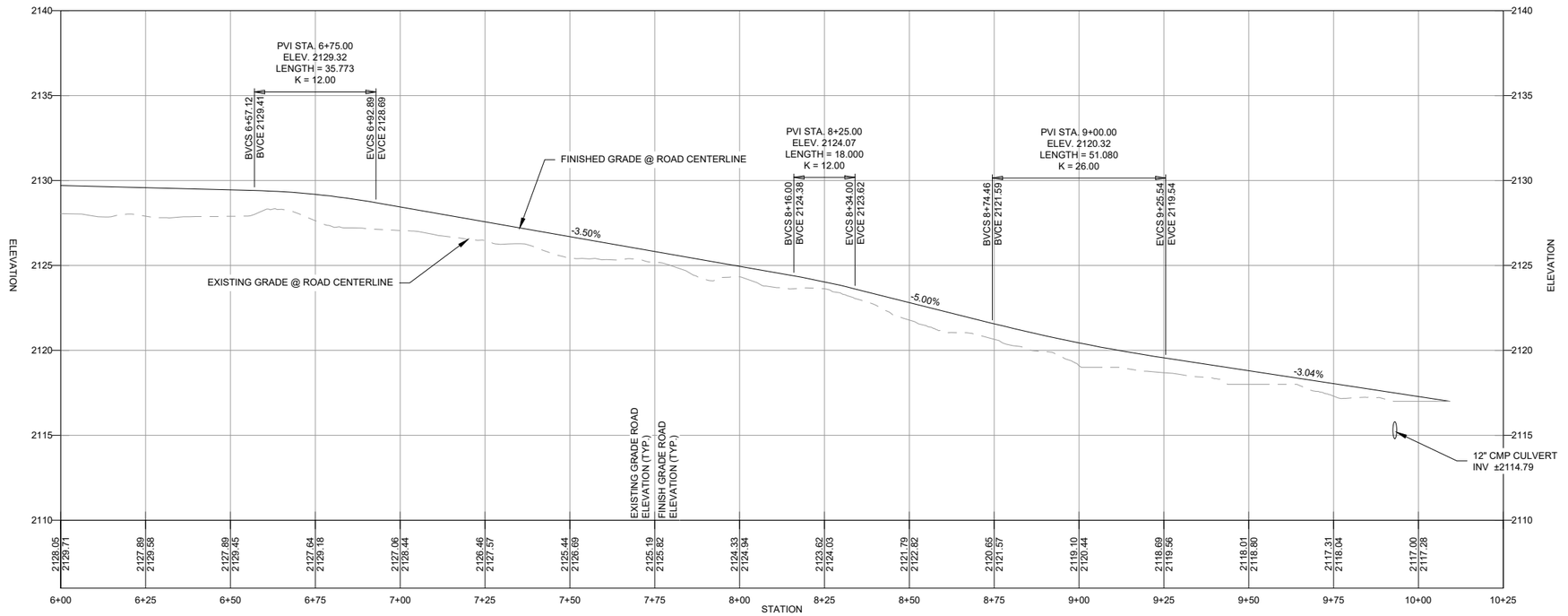
2. IT MAY BE NECESSARY TO RELOCATE SEWER PIPE. CONTRACTOR SHALL COORDINATE WORK WITH GEM STATE UTILITIES.

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PROFESSIONAL ENGINEER
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8607
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STATE OF IDAHO
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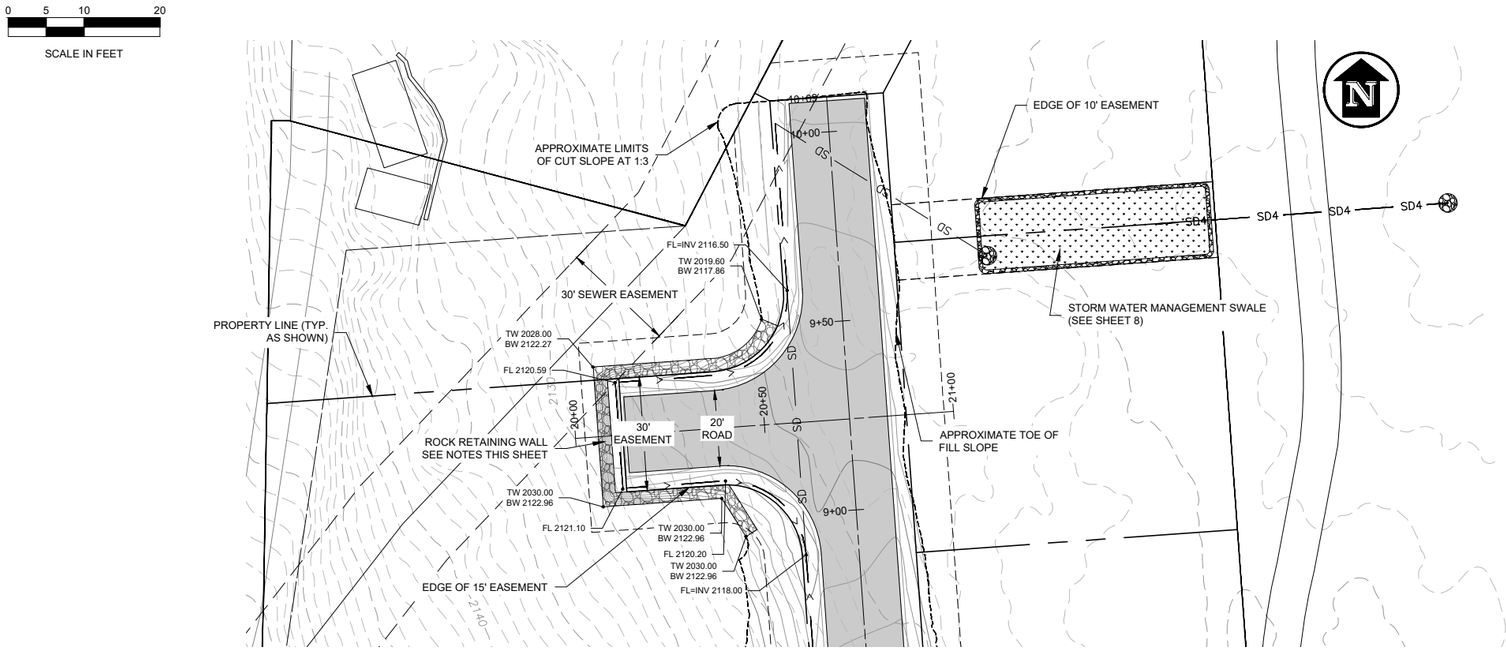
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SANDPOINT, IDAHO 83864
(208) 263-4160

SHEET TITLE:
**ROAD PLAN AND PROFILE**
**STA 6+00 TO 10+09**

PROJECT:
**IDAHO CLUB, REPLAT OF LOT 2,**
**GOLDEN TEE ESTATES 11TH ADDN.**
**BONNER COUNTY, IDAHO**

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| DATE: | 07-03-2024 |
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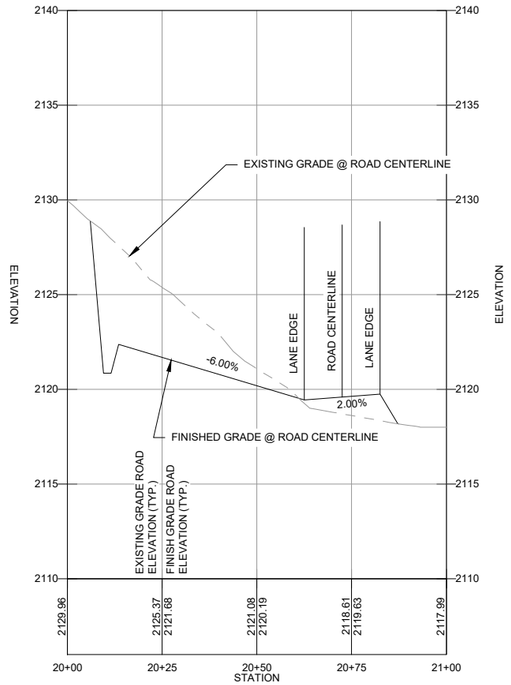

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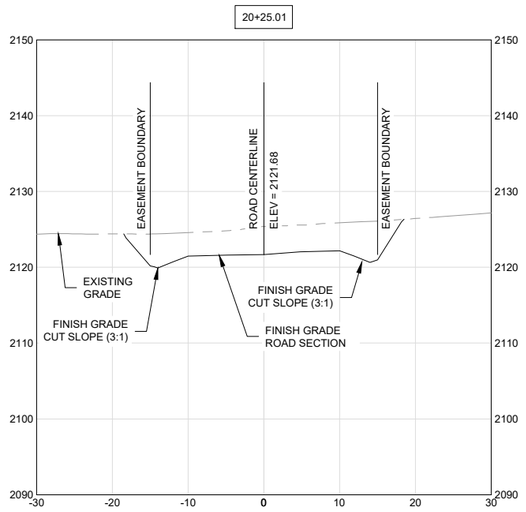
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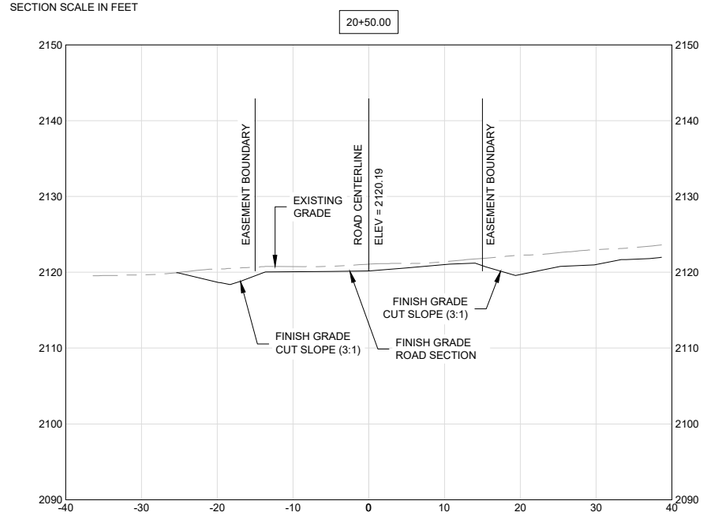
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SECTIONS

PROFESSIONAL ENGINEER REGISTERED 8607 12/26/2024 STATE OF IDAHO B. SCOTT BROWN

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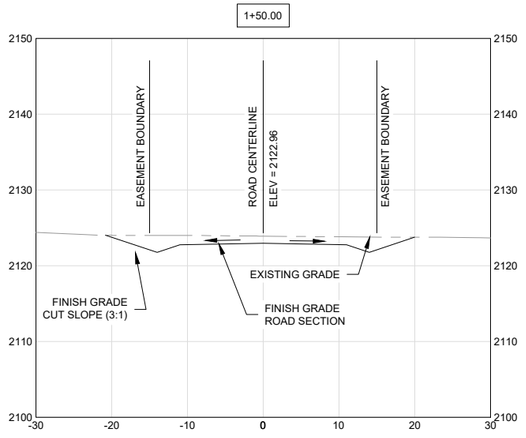
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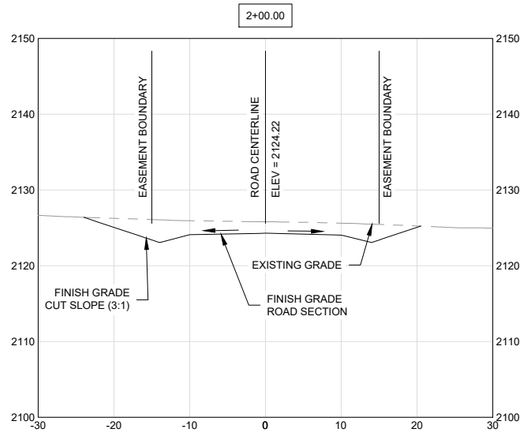
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# HAMMERHEAD PLAN, PROFILE, AND SECTION

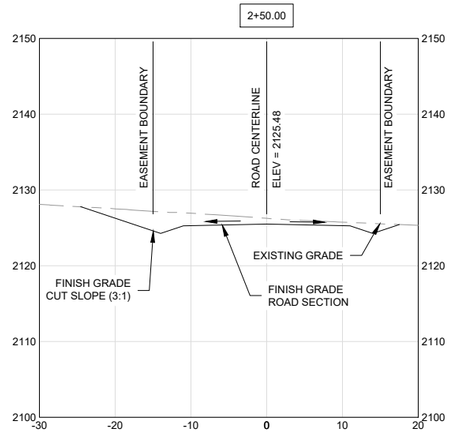
PROJECT:
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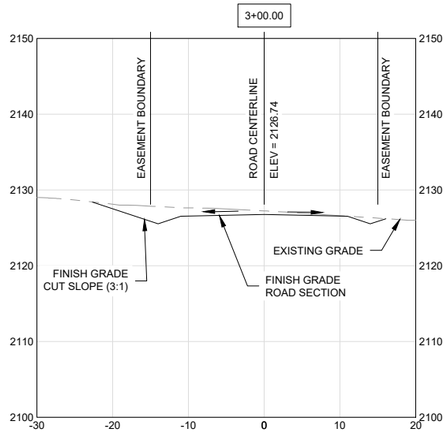
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| SCALE: | AS SHOWN |
| DESIGNED: | BSB |
| DRAWN: | NCF |
| CHECKED: | BSB |
| PROJ NO.: | 14127-23-001 |
| CAD FILE: | E-NICD |

SHEET 5 OF 10

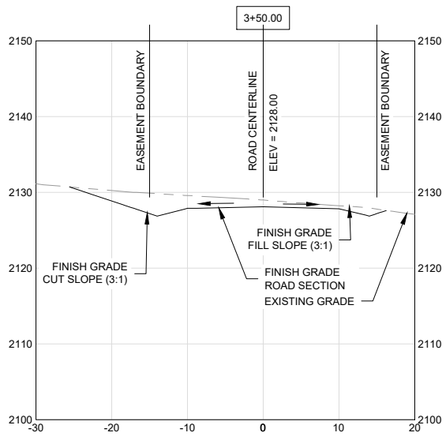


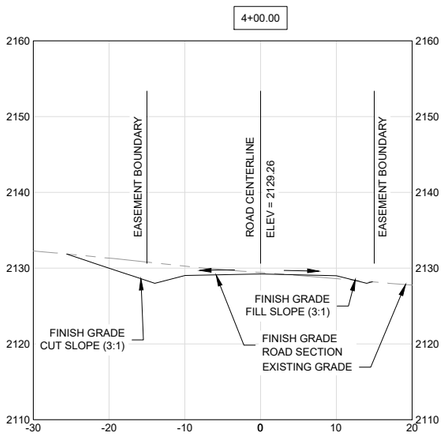



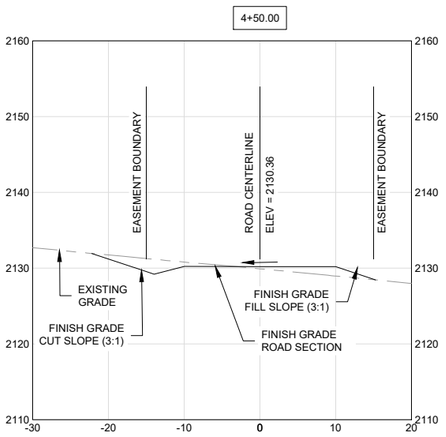




STA 1+08 TO 4+00:
CROWNED FINISH GRADE
ROAD SECTION

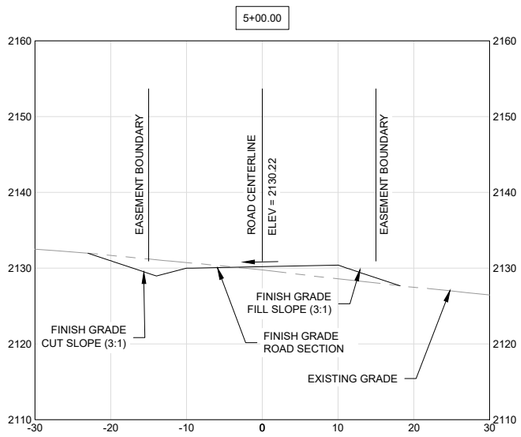


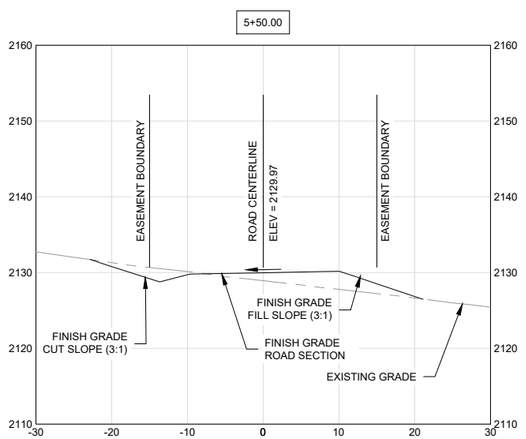



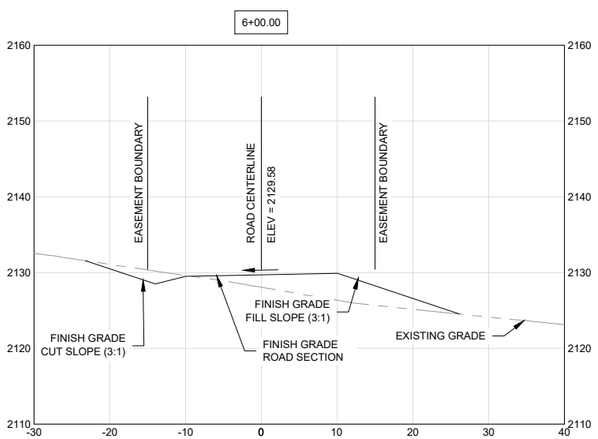

STA 4+00 TO 4+50:
TRANSITION FROM CROWNED
FINISH GRADE ROAD SECTION
TO CROSS SLOPE LEFT

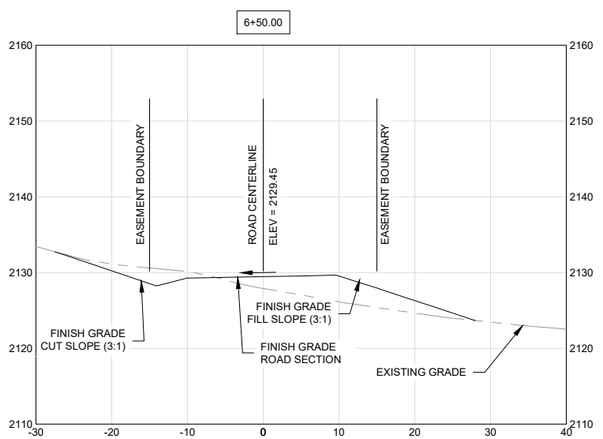



STA 4+50 TO 9+00:
FINISH GRADE ROAD SECTION
CROSS SLOPE LEFT









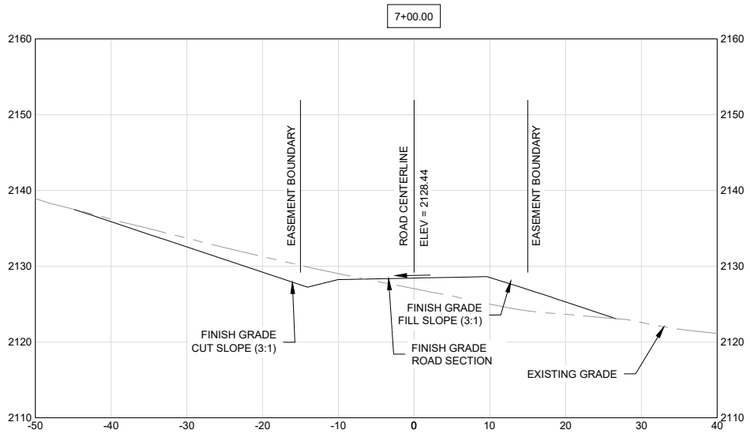

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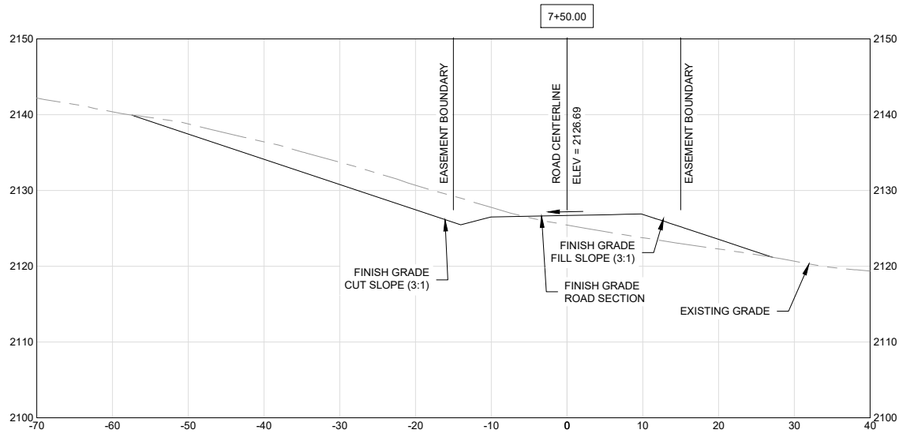
James A. Sewell and Associates, LLC
1319 NORTH DIVISION AVENUE
SANDPOINT, IDAHO 83864
(208) 263-4160

SHEET TITLE:
**ROADWAY SECTIONS**

PROJECT:
**IDAHO CLUB, REPLAT OF LOT 2,**
**GOLDEN TEE ESTATES 11TH ADDN.**
**BONNER COUNTY, IDAHO**

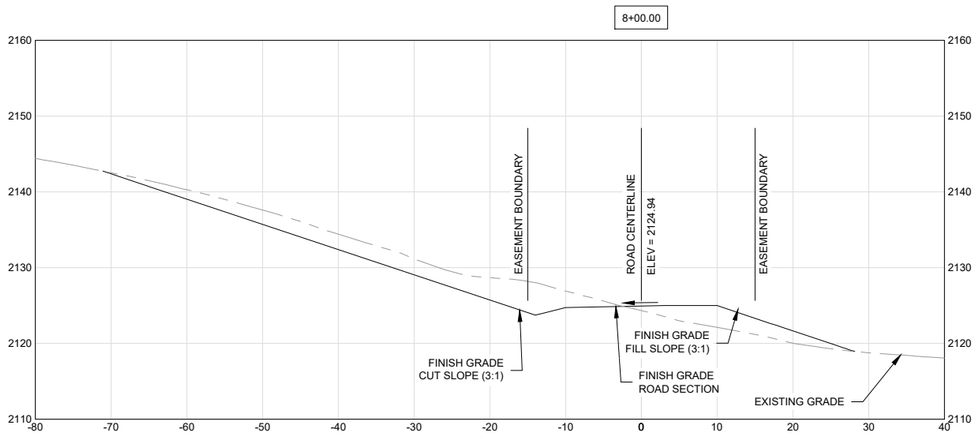
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| DATE: | 07-03-2024 |
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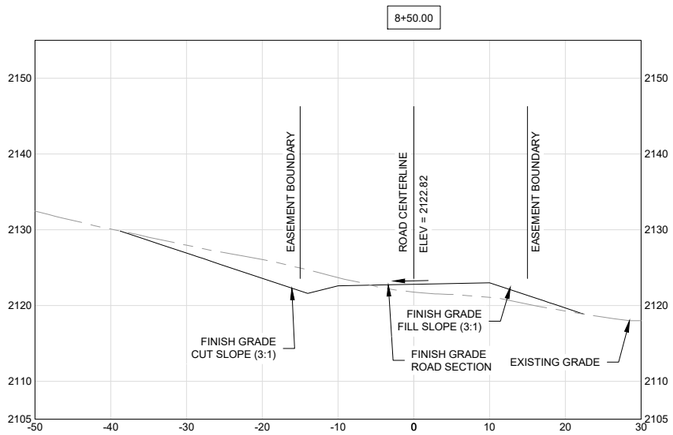


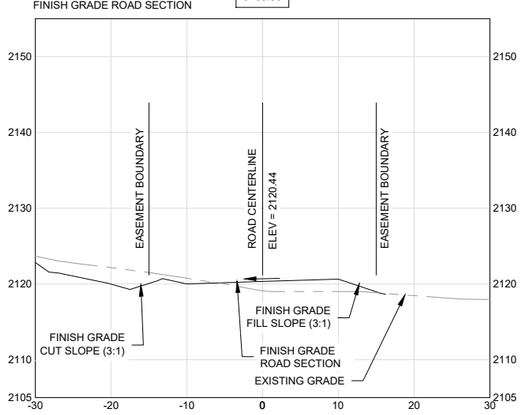


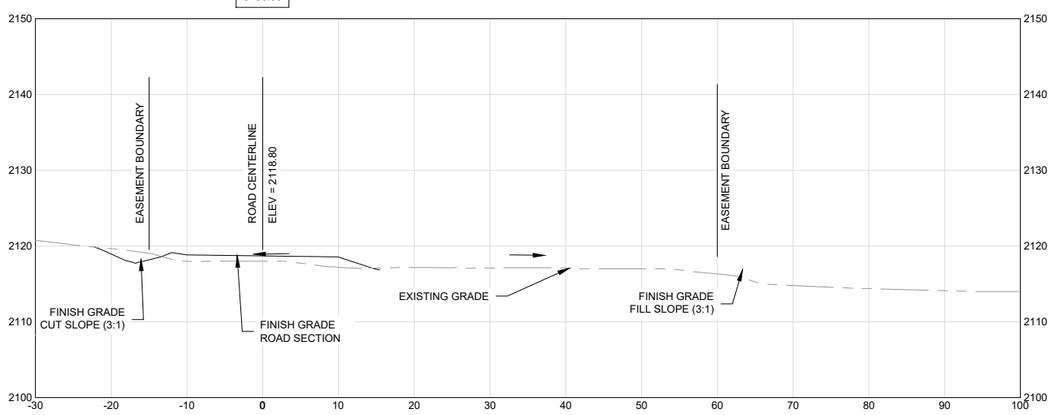


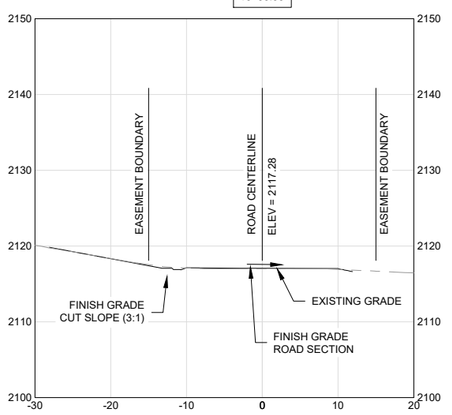



STA 9+00 TO 9+50:
TRANSITION FROM CROSS
SLOPE LEFT TO CROWNED
FINISH GRADE ROAD SECTION




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STATE OF IDAHO
B. SCOTT BROWN

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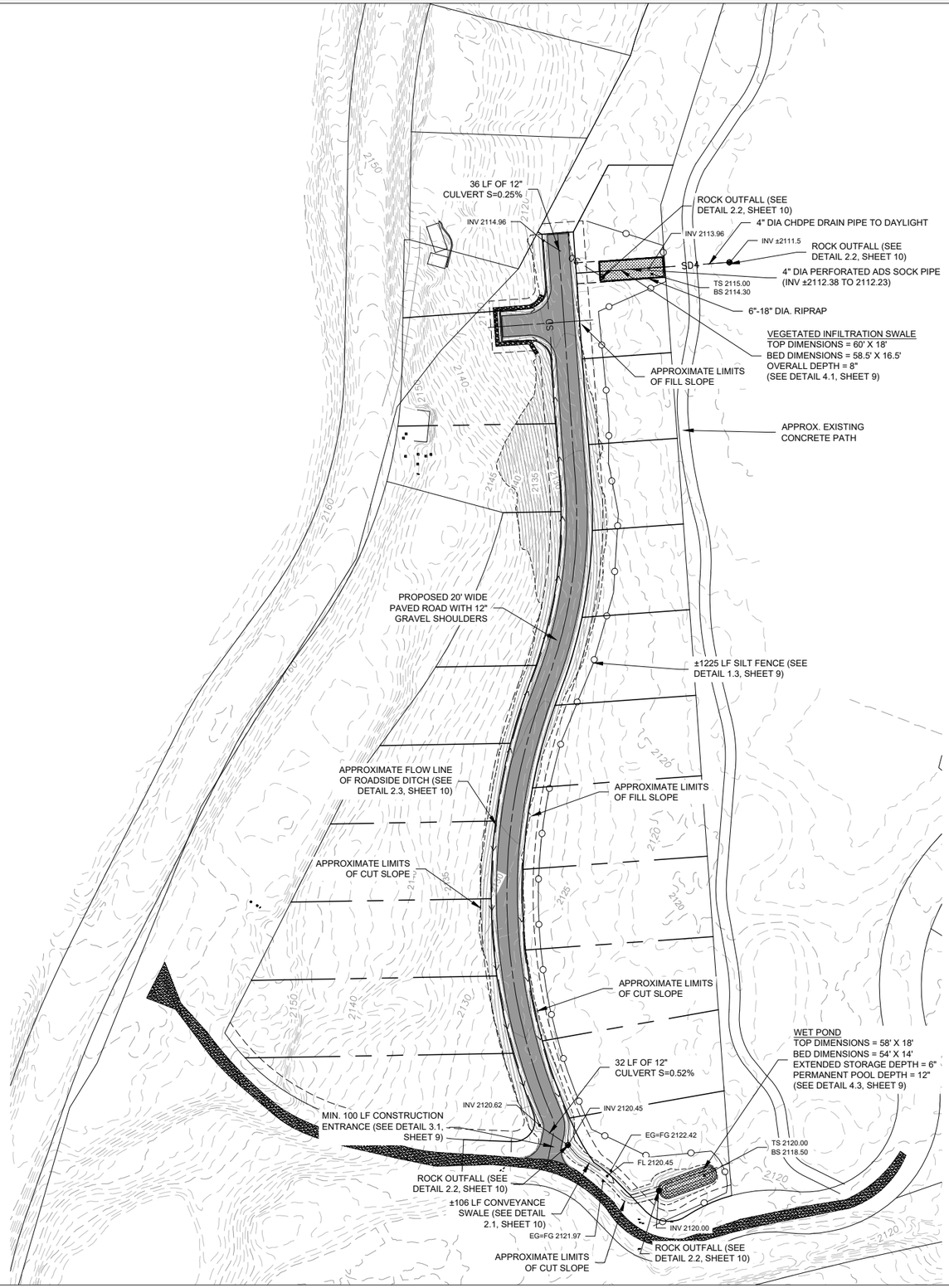
James A. Sewell and Associates, LLC
1319 NORTH DIVISION AVENUE
SANDPOINT, IDAHO 83864
(208) 263-4160

SHEET TITLE:
**SECTIONS**

PROJECT:
**IDAHO CLUB, REPLAT OF LOT 2,**
**GOLDEN TEE ESTATES 11TH ADDN.**
**BONNER COUNTY, IDAHO**

| | |
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SHEET 7 OF 10




PROFESSIONAL ENGINEER
REGISTERED
8607
12/26/2023
STATE OF IDAHO
B. SCOTT BROWN

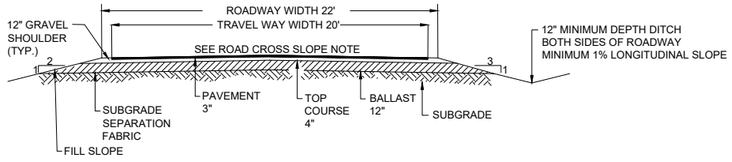
| No. | DATE: | REVISION | DRN/CHK |
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SHEET TITLE:
# STORM WATER MANAGEMENT PLAN

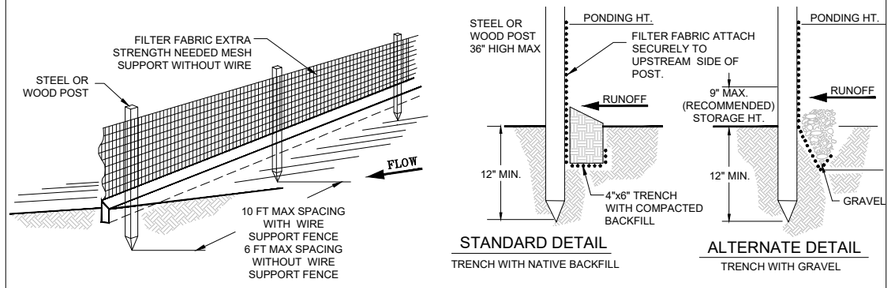
PROJECT:
## IDAHO CLUB, REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDN.
## BONNER COUNTY, IDAHO

| | |
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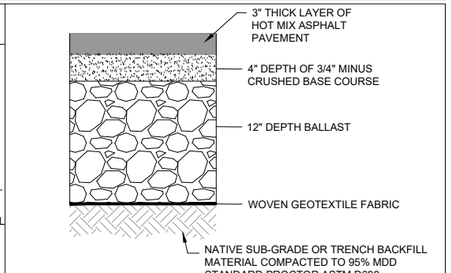

CROWN SLOPE STA 24+50 TO 4+00
LEFT CROSS SLOPE STA 4+50 TO 10+09

## 1.1 TYPICAL ROAD SECTION
NOT TO SCALE



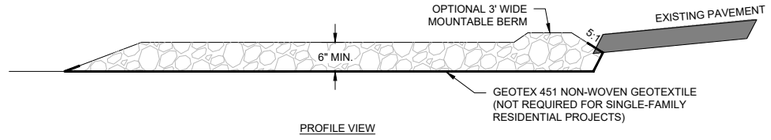

NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS, NOT INTENDED FOR CHANNELIZED FLOW

## 1.3 SILT FENCE
NOT TO SCALE

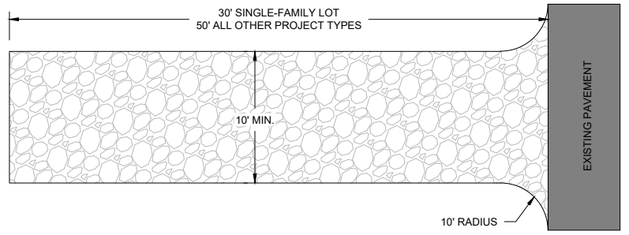



NOTES:
1. SEE SPECIFICATIONS, SHEET 2, FOR MATERIAL AND MIX DESIGN SUBMITTAL REQUIREMENTS.

## 1.5 ASPHALT PAVEMENT SECTION
NOT TO SCALE




PROFILE VIEW

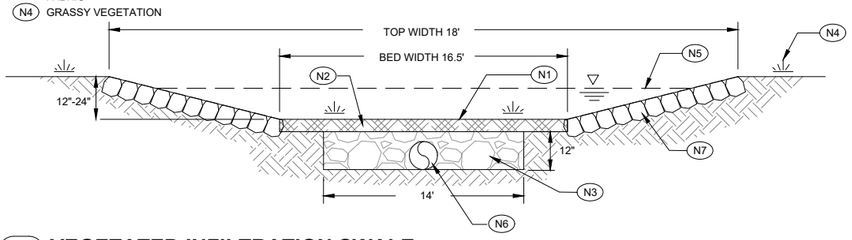



PLAN VIEW

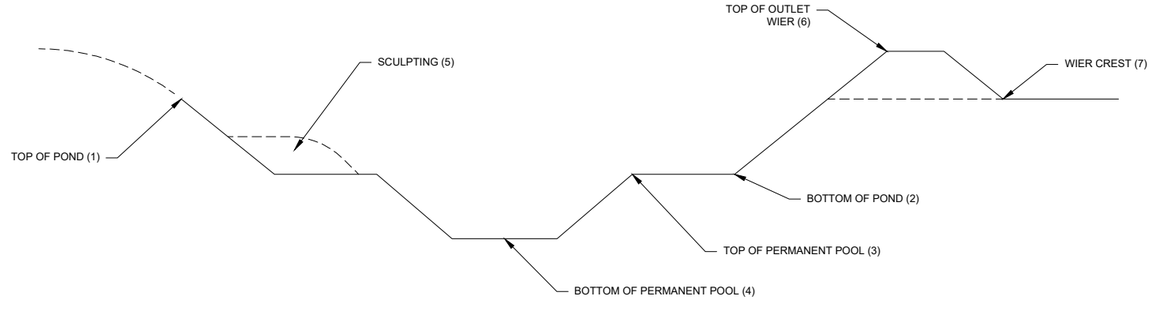
- USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES IS ALLOWED.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY OR ADJACENT STREET. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY OR ADJACENT STREET MUST BE REMOVED IMMEDIATELY.
- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY OR ADJACENT STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND ASSOCIATED MAINTENANCE SHALL BE PROVIDED AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT.

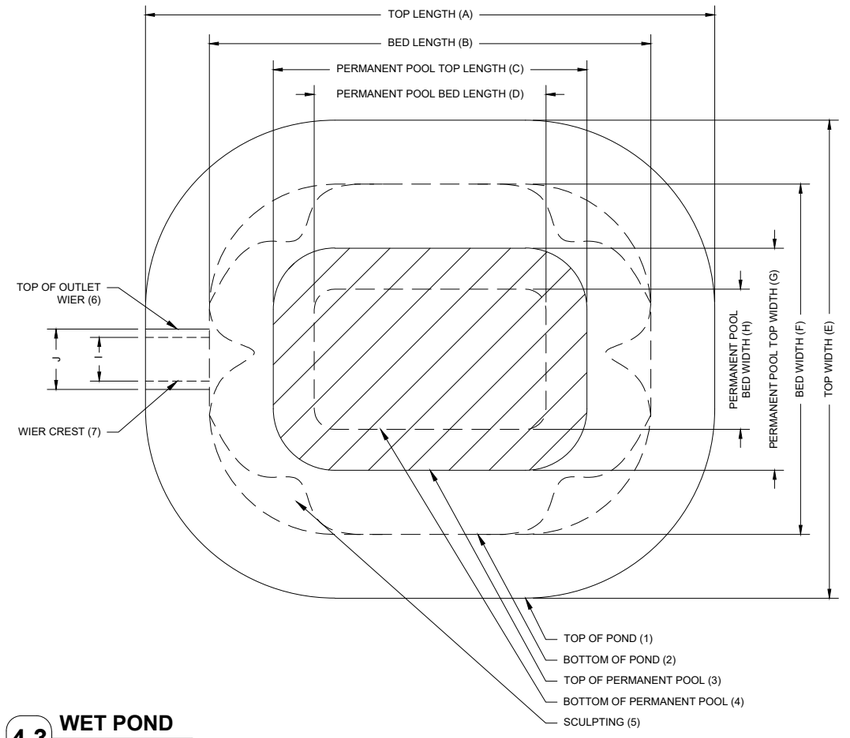
## 3.1 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

(N1) BED OF SWALE SHALL COVERED WITH HYDROSEED (CONTRACTOR SHALL SUBMIT HYDROSEED MIX TO ENGINEER AND CITY FOR REVIEW PRIOR TO APPLICATION)
(N2) 3" DEPTH OF SANDY-LOAM TOPSOIL
(N3) 2" DIA. CLEAN DRAIN ROCK WRAPPED IN FILTER FABRIC
(N4) GRASSY VEGETATION
(N5) OPERATING DEPTH (8" OVERALL DEPTH)
(N6) 4" ADS N-12 PERFORATED PIPE SOCK DRAIN DISCHARGE TO CATCH BASIN
(N7) 6" - 18" DIA RIPRAP




## 4.1 VEGETATED INFILTRATION SWALE
NOT TO SCALE




NICD

| WET POND DIMENSIONS IN FEET | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| POND # | A | B | C | D | E | F | G | H | I | J |
| 1 | 58 | 54 | 50 | 44 | 18 | 14 | 10 | 4 | 0.7 | 1.7 |

| WET POND FINISH GRADE ELEVATIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| POND # | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 2120.0 | 2119.5 | 2119.5 | 2118.5 | 2119.8 | 2120.2 | 2120.0 |

## 4.3 WET POND
SCALE: N.T.S.

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1319 NORTH DIVISION AVENUE
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(208) 263-4160

SHEET TITLE: DETAILS

PROJECT: IDAHO CLUB, REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDN. BONNER COUNTY, IDAHO

| | |
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(N1) NATIVE MATERIAL BACKFILL WHERE NOT IN ROADWAY. COMPACT TO 90% STD. PROCTOR.

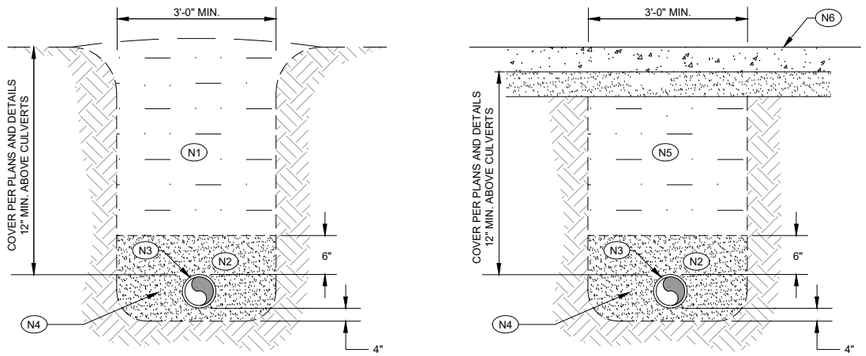
(N2) IN ROCK EXCAVATION, 12" ABOVE AND 6" BELOW PIPE SHALL BE BEDDED W/SAND

(N3) BURIED CULVERT

(N4) BEDDING SHALL BE PLACED 4" BELOW PIPE AND 6" ABOVE. BEDDING MATERIAL SHALL BE 3/4" MINUS CRUSHED AGGREGATE COMPACTED TO 95% STD. PROCTOR.

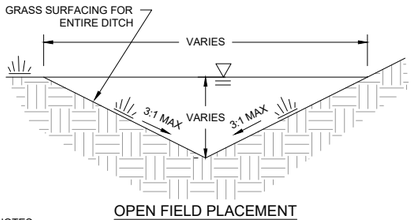
(N5) IMPORTED TYPE-2 AGGREGATE BACKFILL. NATIVE MATERIAL MAY BE USED WHEN DEEMED SUITABLE BY ENGINEER PER ISPWC 306.2.3. COMPACT TO 95% STD. PROCTOR UNDER ROADWAYS AND DRIVEWAYS

(N6) PAVEMENT SECTION (SEE ROAD SECTION DETAILS FOR GRAVEL AND ACP THICKNESS)




NOTE: TRENCH SIDE WALLS SHALL BE SLOPED AND/OR BRACED TO PROTECT WORKERS, ADJACENT PROPERTY, AND THE WORK.

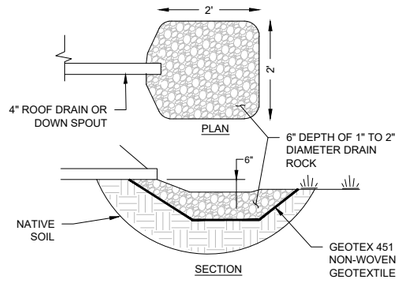
## 1.1 CULVERT TRENCH
SCALE: NOT TO SCALE



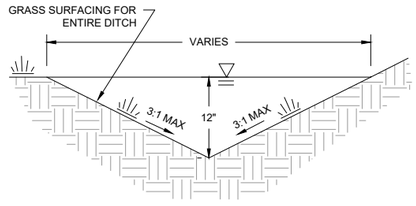

OPEN FIELD PLACEMENT

NOTES:
1. MAINTAIN 1% MINIMUM RUNNING SLOPE IN ALL DITCHES.
2. DURING CONSTRUCTION AND UNTIL THE DITCH IS COVERED IN GRASS AT FINAL STABILIZATION, INSTALL ROCK, SANDBAG, OR GRAVEL-BAG CHECK DAMS MINIMUM EVERY 50 FEET OF DITCH LENGTH PER THE *CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES.*

## 2.1 GRASSY CONVEYANCE SWALE
NOT TO SCALE

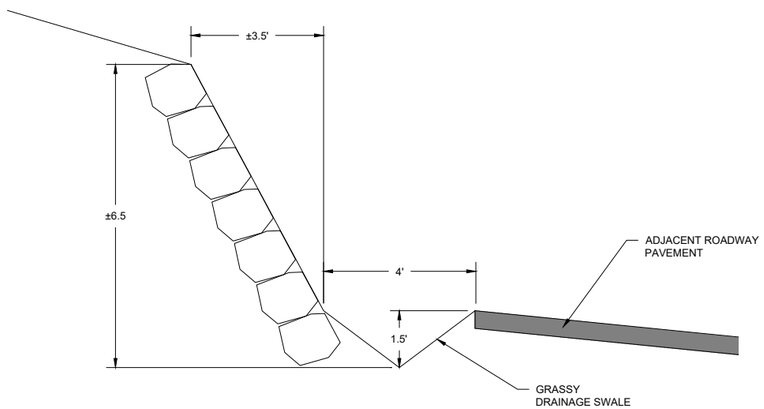



## 2.2 ROCK OUTFALL
NOT TO SCALE

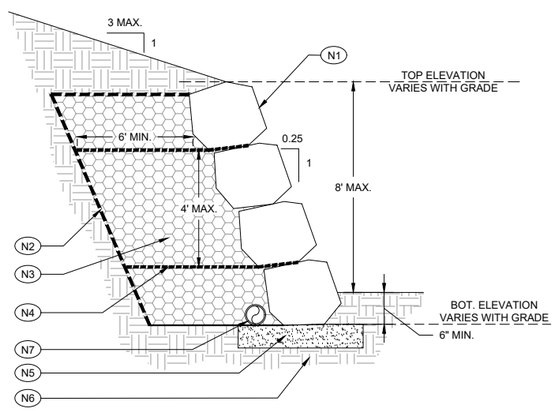



NOTES:
1. MAINTAIN 1% MINIMUM RUNNING SLOPE IN ALL DITCHES.
2. DURING CONSTRUCTION AND UNTIL THE DITCH IS COVERED IN GRASS AT FINAL STABILIZATION, INSTALL ROCK, SANDBAG, OR GRAVEL-BAG CHECK DAMS MINIMUM EVERY 50 FEET OF DITCH LENGTH PER THE *CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES.*

## 2.3 GRASSY ROADSIDE DITCH
NOT TO SCALE




**GENERAL RETAINING WALL DIMENSIONS**




(N1) 2' TO 4' ANGULAR ROCK RIPRAP INSTALL IN INTERLOCKING PATTERN

(N2) NON-WOVEN GEOTEXTILE FABRIC GEOTEX 451 OR APPROVED EQUAL

(N3) FREE DRAINING BACKFILL MATERIAL 3/4" TO 3" MINUS CRUSHED ROCK

(N4) TENSAR GEOGRID BX1200 REINFORCEMENT AT 4" O.C. VERTICAL SPACING (REQUIRED FOR WALL HEIGHTS > 5')

(N5) 6" LAYER OF 3/4" MINUS CRUSHED ROCK COMPACT TO 95% OF MDD

(N6) NATIVE UNDISTURBED SOIL

(N7) 4" PERFORATED PIPE DRAIN TO DAYLIGHT

NOTE: RETAINING WALL MAY BE TERRACED. THE DISTANCE BETWEEN TERRACED RETAINING WALLS SHALL BE EQUAL TO OR GREATER THAN THE HEIGHT OF THE LOWER WALL

**RETAINING WALL CONSTRUCTION SPECIFICATIONS**

## 4.1 ROCK RETAINING WALL
NOT TO SCALE


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(208) 263-4160


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SHEET TITLE: **DETAILS**

PROJECT: **IDAHO CLUB, REPLAT OF LOT 2, GOLDEN TEE ESTATES 11TH ADDN. BONNER COUNTY, IDAHO**

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