SEC. 2, T. 24 N., R. 43 E., WM

STREET AND DRAINAGE IMPROVEMENTS

MORAN VIEW ESTATES 1ST ADD.

A PORTION OF THE SOUTH 1/2 OF SECTION 2,
TOWNSHIP 24 NORTH, RANGE 43 EAST, W.M.
SPOKANE COUNTY, WASHINGTON

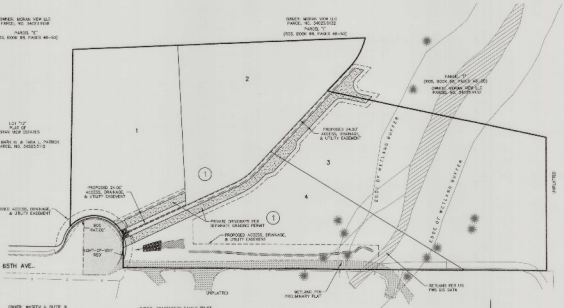
LEGEND

EXISTING FEATURES

- ASPHALT SURFACING
- CURB
- GRAVEL
- SIDEWALK OR CONCRETE
- TREES (VARY AS NOTED)
- DRYWELL
- STORM MANHOLE
- GATED ENTRY
- GUY WIRE POLE
- POWER POLE/TELEPHONE POLE
- LIGHT POLE
- TELEPHONE ENCLOSURE
- WATER VALVE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- TREE (DECIDUOUS OR CONIFEROUS)
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE / CULVERT
- POWER LINE (WRP OR BP)
- TELEPHONE LINE (BT OR BC)
- GAS LINE
- CONTOURS
- FENCE
- FRESH SEPTIC LINE

PROPOSED IMPROVEMENTS

- ASPHALT SURFACING
- CURB
- CONCRETE OR SIDEWALK
- DRYWELL
- STORM MANHOLE
- CONCRETE INLET
- CURB INLET
- POWER POLE
- SIGN
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- WATER SHUTOFF / METER VAULT
- SANITARY SEWER MANHOLE
- CLEANOUT (CO)
- GAS METER
- WATER LINE (W SERVICE)
- SLEEVE FOR SPRIER / SEWER CROSSING
- SANITARY SEWER LINE
- STORM DRAIN LINE / CULVERT
- CONTOURS
- STORM AREA OR SWALE / POND / WETLAND
- DIRECTION OF SURFACE WATER DRAINAGE
- 1924.50 — 1924.50 — EXISTING ELEVATION
- 1924.50 — 1924.50 — PROPOSED ELEVATION AT FLOWLINE
- PROPERTY BOUNDARY



GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.

BENCHMARK

SEWC 28 EAST EDGE OF POWER POLE 5.
SOUTH OF BOTH. ASPHALT HEADERT TO
ASPHALT DRIVEWAY
ELEVATION = 1994.66, NAVD 88

VICINITY MAP

SHEET INDEX

1 – COVER AND INDEX SHEET
2 – CSC PLAN & NOTES
3 – 65TH AVE. PLAN & PROFILE
4 – DETAILS

OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-7895
DATE APPROVED: 8/27/2018
DATE PRIVATE EXPIRES: 8/27/20
PROJECT LAND MUST BE PUBLIC: N/A
DATE PUBLIC EXPIRES: 8/27/2023
PRIVATE DRAINAGE: NO BLOCK LOT FOR FUTURE PAVER
PUBLIC DRAINAGE: NO BLOCK LOT FOR FUTURE PAVER
ROAD AND DRAINAGE TRACT FOR FUTURE PAVER
PERMIT REQUIRED: ROAD AND DRAIN
NOTE: PRIVATE DRAINAGE EASEMENT
PRIOR TO FINAL ACCEPTANCE

No.	DESC. / DATE	BY
1		
2		
3		
4		
5		

storhaug
civil engineering | planning
landscape architecture
128 east third avenue | spokane, wa 99202
509.326.2994 | www.storhaug.com

COVER AND INDEX SHEET
STREET AND DRAINAGE IMPROVEMENT PLANS
MORAN VIEW ESTATES 1ST ADD.
SPOKANE COUNTY WASHINGTON

SHEET TITLE
PROJECT TITLE
SEAL

DATE	08/08/2018
DRAWN	KAH
CHECKED	JBS
PROJECT	17-335
DRAWING NO.	1 OF 4
	COVER

P:\335\17-335 MVE 2018\17-335 MVE-Plan 01 COVER

SEC. 2, T. 24 N., R. 43 E., WM

DEFINITION: A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC THAT IS SUPPORTED BY SUPPORTING POSTS AND STAKES AND EXTENDED INTO THE FILTER FABRIC TO ENCORPORATE OF STAKES AND STRETCHED FILTER FABRIC INTO A POCKET AND TRENCH MORE NECESSARY FOR SUPPORT.

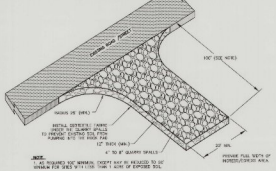
PURPOSE: TO REDUCE THE AMOUNT OF MUD, DIRT, ROCK, ETC. TRANSPORTED BY SURFACE WATER FROM A CONSTRUCTION SITE, TO PREVENT THE OBSTRUCTION OF STORM DRAINS, & TO PROTECT TO CONSTRUCTION AREAS AND DIVERSION OF GROUND WATER.

CONDITIONS WHERE PRACTICE APPLIES: BARRIER WHERE WILL BE LEVIED & DOWNSLOPE FROM PROTECTED AREA (DIRECT SHEET FLOW & PUBLIC ROAD OR OTHER PUBLIC AREA).

MAINTENANCE: THE DEPOSITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD INTO PUBLIC AREA (SEE TIPS AND SEDIMENT TRAPS). REPAIR OR REPLACE BARRIER IF DAMAGED BY CONSTRUCTION AND REPAIR AND/OR CLEANOUT OF ANY SEDIMENT LEFT ON TRAVEL SEDIMENT ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES OFFSITE (SEDIMENT OR WITH STORM DRAINS MUST BE REMOVED.

STANDARD NOTES

1. SEE FILTER FABRIC FENCE DETAIL, BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FABRIC SHOULD BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH THE FABRIC.
2. POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES (WHEN PHYSICALLY POSSIBLE).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UP-SLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOURS.
4. WHEN USE PLUS FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP-SLOPE SIDE OF THE POSTS USING WIRE TIES OR STAPLES AT NOT LESS THAN THE TOP, MIDDLE, AND BOTTOM POSTS. THE WIRE MESH FENCE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. FILTER FABRIC MATERIAL SHALL BE SHEET OR ROLL STOCK AND BE PROVIDED WITH A MANUFACTURER'S GUARANTEE THAT THE FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS AFTER INSTALLATION: TENSILE STRENGTH 120 LBS. MINIMUM, MULLEN BURST 225 PSI MINIMUM, SLURRY FLOW RATE 0.3 GALLONS PER MINUTE PER SQUARE FOOT OF FABRIC MINIMUM.
6. WHEN JOINTS ARE NECESSARY, FABRIC SHOULD BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH THE FABRIC WRAPPED ONCE AROUND THE POST AND FASTENED SECURELY TO IT. THE FABRIC SHOULD BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A TIE. THERE SHOULD BE AT LEAST ONE SUPPORTING STAKE. CARE SHOULD BE USED WHEN JOINING ON SUBSEQUENT ROLL STRETCH FABRIC.
7. LOCAL GOVERNMENTS MAY MODIFY THE USE OF PREFERRED COMPACTED EARTHEN BERMS, SEE TIPS, THAT MAY BE THE PREFERRED BARRIER BECAUSE THE SOIL FORMS A MORE CONTINUOUS CONTACT WITH THE TRENCH BOTTOM.

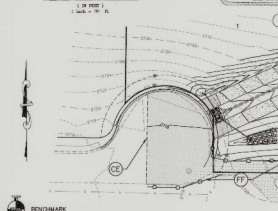


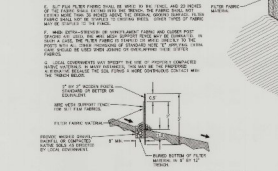
STABILIZED CONSTRUCTION EXIT/ TIRE WASH

SPOKANE COUNTY ENGINEERED OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT NAME
DATE ADOPTED
PROJECT NUMBER
PROJECT LANE MILES
PROJECT LANE MILES PRIVATE
THIS DOCUMENT IS THE PROPERTY OF SPOKANE COUNTY. THE DESIGNS, DETAILS AND DRAWINGS PROVIDED HEREIN ARE TO BE USED FOR THE PROJECT SHOWN AND ARE PROHIBITED FROM OTHER USE WITHOUT WRITTEN PERMISSION.
PERMIT REQUIRED: (SEE APPLICABLE PERMIT FOR DETAILS)
APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENGINEER

GRAPHIC SCALE

1 in (25.4mm) = 1 inch = 10 ft.





DEFINITION: A TEMPORARY PREFABRICATED CONCRETE WASHOUT CONTAINER OR SELF-INSTALLED STRUCTURE LARGE ON BELOW GROUND, ABOVE GROUND OR PARTIALLY EXCAVATED TO CONTAIN LIQUID WASTE.

PURPOSE: TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS FROM CONCRETE WASTE BY CONTAINING WASTES RESULTING FROM CONCRETE OPERATIONS SUCH AS CHUTE CLEANING, PUMPING, MIXING, AND TRANSPORTING.

CONDITIONS WHERE PRACTICE APPLIES: WHEREVER CONCRETE IS USED DURING CONSTRUCTION WORKING, AND IT IS NECESSARY TO PROVIDE SUPPORT OF ALL CONCRETE HANDLERS AND SUPPORT OFFSITE.

MAINTENANCE: THE CONTAINER SHALL BE MAINTAINED IN GOOD CONDITION. IT MAY BE NECESSARY TO RELOCATE THE CONTAINER AS THE CONSTRUCTION WORK AND DAILY TASKS BEGIN. PROPERLY DISPOSE OF HARDENED CONCRETE WASTE. REPAIR OR REPLACE THE CONTAINER IF DAMAGED OR FULL.

NOTES:

1. CONCRETE TRUCKS CHUTES, PUMPS, AND INTERNALS SHALL BE RINSED OFF AT THE PLANT OR CONCRETE DELIVERY SITE.
2. ONLY LARGE SEDIMENTS REMAINING IN THE CHUTE AND PUMP MUST BE RINSED INTO THE CONTAINER. SEDIMENTS MUST BE DISPOSED OF PROPERLY.
3. HAND TOOLS INCLUDING, BUT NOT LIMITED TO, SCREEDS, BUCKETS, TROWELS, AND TRAMELS SHALL BE WASHED OFF ONLY INTO DEDICATED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT.
4. EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS PAVERS, SCREEDS, CURBS, AND MIXERS, SHALL BE RINSED OFF ONTO DEDICATED AREAS AS FEASIBLE ON SITE FOR CONCRETE WASTE.
5. WHEN NO FORMED AREAS ARE AVAILABLE, EQUIPMENT AND OTHER ITEMS SHALL BE RINSED OFF ONTO A LARGE, EXCAVATED, DISCARDED CONCRETE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. SURFACE WATER MUST BE STANDARD.

NOTE: REFER TO COVER AND INDEX SHEET FOR "IDENTIFY MAP".

CONTACT PERSON/PERMIT APPLICANT

LEE CAMPBELL
2005 EAST MARION AVENUE
SPOKANE, WA. 99202
509-534-3918

PROJECT / SITE DESCRIPTION

THE PROPOSED PROJECT INCLUDES ROAD AND UTILITY CONSTRUCTION WITH ASSOCIATED STORM DRAINAGE FACILITIES FOR A PROPOSED RESIDENTIAL SUBDIVISION.

SOIL TYPE

THE SOILS IN THE REGION OF THE PROJECT SITE HAVE BEEN IDENTIFIED AS: SHALLOW SILT LOAM, DEEP SILT LOAM, SHALLOW SILT LOAM, SILT LOAM, GRAVELLY SILT LOAM, SANDY AND SILTY SILT SOILS.

EXISTING CONDITIONS

THE PROJECT SITE IS MOSTLY UNDEVELOPED WITH DENSE NATIVE VEGETATION. THE EXISTING SOIL CONDITIONS ARE SUBJECT TO FAIRLY STABLE.

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE (SEE PLAN). CONSTRUCTION TRAFFIC WILL ONLY DO THE WORK AND STORM PIPES TO BEGINNING.
2. ALL TRAFFIC SHALL BE RESTRICTED TO ROADS, SMALL TEMPORARY ACCESS POINTS AND DESIGNATED AREAS.
3. ESTABLISH SEDIMENT APPROACHES AND TEMPORARY ACCESS POINTS WITH THE SEDIMENT TRAPS AND FILTER FENCE.
4. CLEAR, GRUB AND STRIP REMAINING SITE COMPONENTS OF VEGETATIONAL MATERIAL, LEAVE THE SOIL SURFACE UNDISTURBED. STOCKPILE TOPSOIL, LEAVE SOIL ON STOCKPILE. SEED IN ACCORDANCE WITH SPECIFICATIONS.
5. INSTALL STORM DRAINS, INCLUDING PERIMETER STORMWATER FACILITIES (SEE NOTES, PLANS) AND FACILITIES.
6. INSTALL PERIMETER SEDIMENT TERMINATION FACILITIES (ENSURE THE APPROPRIATE FACILITIES).
7. INSTALL PERMANENT DISC CONTROLS, WITH APPLICABLE, AND.
8. INSTALL PERMANENT DRAINAGE FACILITIES.
9. INSTALL PERMANENT CONTROLS, WHEN APPLICABLE, WHEN COMPLETELY INSTALLED.
10. ALL SUBSEQUENT DEVELOPMENT ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION MUST BE ADDRESSED. THE SITE MUST BE STABILIZED AND ALL ACTIVITIES MUST BE REGULARLY INSPECTED. ALL ACTIVITIES MUST BE CONDUCTED IN ACCORDANCE WITH THE PLAN.
11. WASTE MANAGEMENT: CONTRACTOR SHALL PROVIDE ADEQUATE SIZE DUMPSTER TO INCLUDE ALL WASTE. ALL DEBRIS, SOIL, ETC. SHALL BE REMOVED BY DUMPSTER OR PICKUP DUMPSTER AND TRANSPORTED TO A CONTRACTED DISPOSAL SITE.
12. IF STREET WASHING IS REQUIRED, CONTRACTOR SHALL PROVIDE SITE, CHOSE SEDIMENT TRAP, AREA SEDIMENT, SEDIMENT BASIN, WASTEWATER BASIN, IN ACCORDANCE BY SPOKANE COUNTY. THE SITE MUST BE PROTECTED FROM UNCONTROLLED STORM RUNOFF TO AVOID THE SITE.
13. REDUCE CONSTRUCTION AREAS WHERE EQUAL TO OR BETTER THAN ONE ACRE.
14. REMOVE THE FILTER FABRIC FENCE, SEDIMENT TRAPS, AND FILTER FABRIC FENCE WHEN THE SITE IS STABILIZED.
15. INSPECT SEDIMENT CONTROL BMPS WEEKLY AT A MINIMUM. DAILY DURING A STORM EVENT. REPAIR OR REPLACE BMPS AS NECESSARY. REMOVE SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE BMP. REMOVE SEDIMENT FROM IMPERVIOUS SURFACES IMMEDIATELY. IF THE SITE IS DORMANT AND INACTIVE.
16. ALL SUBSEQUENT DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH THE STATE WATER LICENSE AND WASTE CONTROL AUTHORITIES WITH JURISDICTION OVER THE PRIVATE PROJECT.
17. ALL DISTURBED HYDROPHIC SOILS (INCLUDING STOCKPILES) SHALL BE STABILIZED WITHIN 24 HOURS OF DISTURBANCE. SITE SHALL BE FULLY STABILIZED BY SEPTEMBER 30 AND WITHIN 2 DAYS DURING THE SEASONAL WET SEASON (OCTOBER 1 THROUGH MAY 31). THE WET SEASON IS DEFINED AS THE TIME OF YEAR WHEN WEATHER CONDITIONS MAY BE SUCH THAT THE SEDIMENT EFFICIENCY OF THE BMPS MAY BE NOT BE ACHIEVED BY A LOCAL JURISDICTION WITH A "SUBMITTED LOCAL PROGRAM" OR A "LOCAL PROGRAM" THAT HAS BEEN APPROVED BY THE DEPARTMENT OF ECOLOGY. THE WET SEASON DEFINITION MAY BE ADJUSTED BY THE DEPARTMENT OF ECOLOGY.
18. STORMWATER CONTROL PERMIT.
19. ALL DISTURBED AREAS SHALL BE FINISH GRADED AND OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE COMPLETED WITHIN 7 DAYS OF THE FINAL GRADING.
20. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS DURING STORM EVENTS.
21. ALL STORMWATER CONTROL FACILITIES SHALL BE OPERATIONAL DURING STORM EVENTS. ON DISTURBED AREAS DURING GRADING, THESE FACILITIES SHALL BE OPERATIONAL. ALL BMPS SHALL BE MAINTAINED IN GOOD WORKING ORDER.
22. STORMWATER MATERIALS (SUCH AS PAVING) ON THE SITE FOR CONSTRUCTION PURPOSES.
23. STORM DRAINS AND FACILITIES ALL CONTRACTORS, SUPPLIERS AND OTHER PERSONNEL SHALL BE INSTRUCTED ABOUT THE EROSION AND SEDIMENT CONTROL PLAN AND THE PROPER PRACTICES TO BE FOLLOWED.
24. STORM DRAINS AND FACILITIES ALL CONTRACTORS, SUPPLIERS AND OTHER PERSONNEL SHALL BE INSTRUCTED ABOUT THE EROSION AND SEDIMENT CONTROL PLAN AND THE PROPER PRACTICES TO BE FOLLOWED.
25. ALL CONTRACTORS, SUPPLIERS AND OTHER PERSONNEL SHALL BE INSTRUCTED ABOUT THE EROSION AND SEDIMENT CONTROL PLAN AND THE PROPER PRACTICES TO BE FOLLOWED.
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29. ALL CONTRACTORS, SUPPLIERS AND OTHER PERSONNEL SHALL BE INSTRUCTED ABOUT THE EROSION AND SEDIMENT CONTROL PLAN AND THE PROPER PRACTICES TO BE FOLLOWED.
30. ALL CONTRACTORS, SUPPLIERS AND OTHER PERSONNEL SHALL BE INSTRUCTED ABOUT THE EROSION AND SEDIMENT CONTROL PLAN AND THE PROPER PRACTICES TO BE FOLLOWED.

ESC STANDARD NOTES

No.	DATE / DATE
1	
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landscape architecture
surveying
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(509) 326-2994 Fax (509) 326-2995
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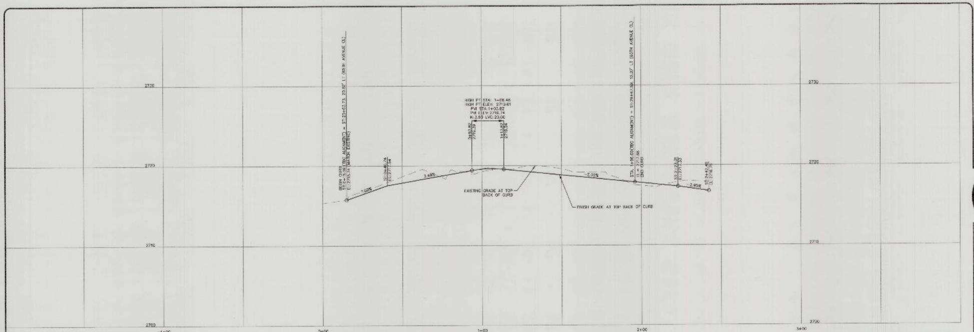
EROSION & SEDIMENT CONTROL PLAN AND NOTES

MORAN VIEW ESTATES 1ST ADD.
SPOKANE COUNTY WASHINGTON

DATE	08/09/2018
DRAWN	KAS
CHECKED	JDS
PROJECT	17-335
DRAWING NO.	2 OF 4
	ESC



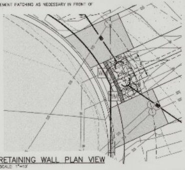
65TH AVE. CUL-DE-SAC PROFILE

NOTES

1. SEE CONSTRUCTION SPECIFICATIONS SHOWN ON DETAIL SHEET.
2. ALL "STATION AND OFFSET" LABELS REFERENCE 65TH AVE. CENTERLINE ALIGNMENT.
3. ALL CURB AND OFFSET DATA IS REFERENCED TO TOP BACK OF CURB, UNLESS OTHERWISE NOTED.
4. 2.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER ALL STORM DRAIN PIPES.
5. CURB INLETS SHALL BE CONSTRUCTED 1" LOWER THAN THE FLOW LINE OF THE CURB. ASPHALT AND CURB TO HAVE SMOOTH TAPER INTO CURB INLETS.
6. W.S.D.O.T. TYPE 2 INLETS SHALL BE PLACED SO THAT THE LONGER SIDE OF THE STRUCTURE IS PERPENDICULAR TO THE EDGE OF PAVEMENT.
7. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
8. IRRIGATION SYSTEM FOR SWALES SHALL BE PROVIDED BY CONTRACTOR/DEVELOPER. IRRIGATION SYSTEM SHALL BE DESIGN/BUILD.
9. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES, EXISTING OVERHEAD POWER, TELEPHONE AND OTHER EXISTING UTILITIES. UTILITIES SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR ALL REQUIREMENTS.
10. CONTRACTOR/DEVELOPER SHALL PROVIDE IRRIGATION FOR ALL SEEDED AREAS UNTIL VEGETATION IS ESTABLISHED.

TABLE

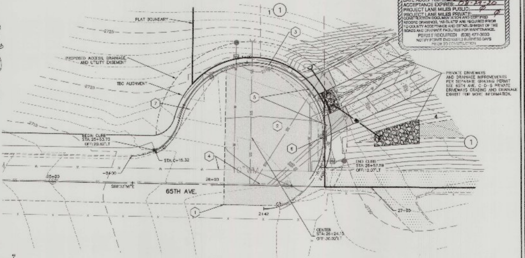
1. SAWCUT AND REMOVE EXISTING PAVEMENT, TACK COAT PRIOR TO REPAVING.
2. ASPHALT PAVEMENT. SEE DETAIL SHEET 4 FOR MORE INFORMATION.
3. TYPE "B" CURB, PER SPOKANE COUNTY STANDARD PLAN A-3.
4. CONTRACTOR TO PROTECT AND PRESERVE EXISTING UTILITIES. COORDINATE WITH APPROPRIATE JURISDICTION FOR POTENTIAL RELOCATION IF NECESSARY. (TYP)
5. URBAN DRIVEWAY, PER SPOKANE COUNTY STD. A-4. CENTER OF APPROACH;
   STA. 26+59.06, 61.48' LT, W= 12.0'
   STA. 26+70.46, 37.86' LT, W= 12.0'
6. CURB NOSE DOWN. SEE DETAIL SHEET FOR MORE INFORMATION.
7. PROVIDE PAVEMENT PATCHING AS NECESSARY IN FRONT OF NEW CURB.



RETAINING WALL PLAN VIEW
SCALE: 1"=10'

TBC ALIGNMENT CURVE TABLE			
CURVE #	RADIUS	ARC LENGTH	DELTA
C1	30.01'	40.74'	077°45'53"
C2	17.00'	53.08'	078°54'00"
C3	47.00'	119.30'	145°18'33"
C4	32.00'	19.39'	034°42'37"

GRAPHIC SCALE
(IN FEET)
HORZ. 1 inch = 20 ft.
VERT. 1 inch = 4 ft.



65TH AVE. PLAN

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1784B
DATE ACCEPTED: 08-29-18
ACCEPTANCE EXPIRES: 08-29-20
PROJECT LANE MILES PUBLIC: Ø
PROJECT LANE MILES PRIVATE: Ø
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

17-335-ST 3 65TH.dwg ST 3 65TH

No.	DESC. / DATE	BY
5		
4		
3		
2		
1		

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

SHEET TITLE: 65TH AVENUE PLAN & PROFILE STA: 25+90 TO STA: 26+70

PROJECT TITLE: MORAN VIEW ESTATES 1ST ADD. SPOKANE COUNTY WASHINGTON

SEAL: JERRY D. STORHAUG, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

DATE: 08/09/2018
DRAWN: KAH
CHECKED: JDS
PROJECT NUMBER: 17-335
DRAWING NO.: 3 OF 4
ROAD

SEC. 2, T. 24 N., R. 43 E., WM

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE SPOKANE COUNTY ROAD STANDARDS, 2010

2. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 811 BEFORE YOU DIG.

3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF STREET AND DRAINAGE FACILITIES.

4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE ACCEPTED STREET AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.

6. THE CONTRACTOR SHOULD TAKE PRECAUTIONS TO PROTECT THE INFILTRATION CAPACITY OF STORMWATER FACILITIES (E.G. LINE THE FACILITY WITH FILTER FABRIC, OVER-EXCAVATE UPON COMPLETION OF THE INFRASTRUCTURE, ETC.)

7. FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT/FT), A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE ACCEPTED PLANS, PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE SURVEYOR.

8. THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.

9. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOILS.

10. BIO-INFILTRATION PONDS/SWALES SHALL HAVE A MAXIMUM TREATMENT DESIGN DEPTH (FROM POND/SWALE BOTTOM TO ELEVATION OF DRYWELL GRATE OR FIRST OVERFLOW/OUTFLOW MECHANISM) OF 6 INCHES. ORGANIC MATTER CONTENT TESTING SHALL BE COMPLETED IN ORDER TO SUBSTANTIATE THE TREATMENT SOIL COMPOSITION. THE TESTS SHALL BE PERFORMED ON COMPOSITE SAMPLES TAKEN FROM THE TREATMENT SOIL LAYER FROM THE CONSTRUCTED POND BOTTOM. A COMPOSITE SAMPLE CONSISTS OF WELL-MIXED SOIL OBTAINED FROM AT LEAST FOUR CORES, TO A DEPTH OF AT LEAST 6 INCHES, RANDOMLY DISTRIBUTED OVER THE POND BOTTOM TEST AREA. STOCKPILE SAMPLES FROM ON-SITE OR A MATERIAL SUPPLIER CAN BE TESTED FOR INFORMATIONAL PURPOSES TO DETERMINE INITIAL SUITABILITY AND POSSIBLE SOIL AMENDMENTS, BUT WILL NOT BE ACCEPTED IN-LIEU OF IN-PLACE TESTING. A MINIMUM OF ONE TEST SHALL BE PERFORMED FOR EACH BIO-INFILTRATION POND/SWALE 1,500 SQUARE FEET OR LESS, WITH ONE ADDITIONAL TEST FOR EACH ADDITIONAL 2,000 SQUARE FEET OF POND/SWALE BOTTOM, OR FRACTION THEREOF. "ONE TEST" IS EQUAL TO FOUR CORE SAMPLES TAKEN AS DESCRIBED ABOVE. TESTING RESULTS SHALL BE SUBMITTED AS PART OF THE CONSTRUCTION CERTIFICATION SUBMITTAL REQUIRED FOR RELEASE OF SURETY POSTED ON PROJECT.

11. CONCRETE APRONS ARE REQUIRED AT THE INLET INTO ANY SWALE OR POND. THE FINISH GRADE OF THE SWALE/POND SIDE SLOPE, WHERE THE CONCRETE INLET APRON ENDS, SHALL BE A MINIMUM OF 2 INCHES BELOW THE FINISHED ELEVATION OF THE CONCRETE CURB APRON EXTENSION. THE INTENTION IS TO ALLOW STORMWATER RUNOFF TO ENTER THE SWALE/POND UNOBSTRUCTED, WITHOUT BACKING UP INTO THE STREET AND GUTTER DUE TO SOD OVERGROWTH AT THE INLET.

12. UNLINED POND AND BIOINFILTRATION SWALE BOTTOMS ARE EXPECTED TO INFILTRATE VIA THE POND FLOOR, AND THEREFORE, SHALL NOT BE HEAVILY COMPACTED. EQUIPMENT TRAFFIC SHALL BE MINIMIZED ON THE POND BOTTOMS. THE FACILITY SUBGRADE SHALL BE A MEDIUM- TO WELLDRAINING MATERIAL, WITH A MINIMUM THICKNESS OF 18 INCHES AND A MINIMUM INFILTRATION RATE OF 0.15 IN/HR. THE FACILITY SHALL DRAIN WITHIN 72 HOURS OF A STORM EVENT. IF THE POND ALSO SERVES AS A WATER QUALITY TREATMENT FACILITY, THE TREATMENT ZONE (SOD AND 6 INCHES OF TREATMENT SOIL) SHALL BE A MEDIUM- TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.25-3.00 IN/HR. SILTY LOAM OR LOAMY SOILS ARE PRESUMED TO HAVE AN INFILTRATIVE RATE THAT FALLS WITHIN THIS RANGE. SCARIFY THE FINISH GRADE OF THE POND BOTTOM PRIOR TO HYDROSEEDING/SODDING. TESTING THAT VERIFIES SUBGRADE MINIMUM INFILTRATION RATE IS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION CERTIFICATION TO ENSURE ADEQUATE DRAINAGE. INFILTRATIVE TESTING OF THE TREATMENT ZONE IS ONLY REQUIRED IF SOILS OTHER THAN SILTY LOAM OR LOAMY SOILS ARE PROPOSED.

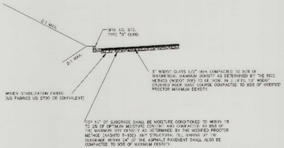
13. IF, DURING FINAL INSPECTION, IT IS FOUND THAT THE CONSTRUCTED POND OR SWALE DOES NOT CONFORM TO THE ACCEPTED DESIGN, THE SYSTEM SHALL BE RECONSTRUCTED SO THAT IT DOES COMPLY.

STANDARD NOTES FOR STREET AND DRAINAGE

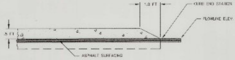
1. COORDINATE WITH SPOKANE COUNTY AND DESIGN ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO BEGINNING CONSTRUCTION AND COORDINATE WITH THE GOVERNING REGULATORY AGENCIES REGARDING CONSTRUCTION AND INSPECTION REQUIREMENTS.
2. THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL RECOMMENDATIONS AND INVESTIGATION REPORTS ASSOCIATED WITH THE SUBJECT DEVELOPMENT PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES BETWEEN DESIGN PLANS AND GEOTECHNICAL REPORT SHALL BE REPORTED TO THE DESIGN ENGINEER. CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORTS.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING STRUCTURES AND ASSOCIATED IMPROVEMENTS ON THE SUBJECT SITE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH OWNER FOR FURTHER DIRECTION AND EXTENT OF WORK.
4. IRRIGATION SYSTEM FOR STORM WATER MANAGEMENT PONDS SHALL BE PROVIDED BY CONTRACTOR/DEVELOPER. IRRIGATION SYSTEM SHALL BE DESIGN/BUILD.
5. STORM DRAIN PIPES SHALL BE POLYETHYLENE (CPEP) SMOOTH WALL PIPE PER ADVANCED DRAINAGE SYSTEMS (ADS) N-12, PER WSDOT/APWA STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH M.U.T.C.D. AND SPOKANE COUNTY STANDARDS PRIOR TO DISRUPTION OF ANY TRAFFIC. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE AND THE APPROPRIATE AGENCY NOTIFICATION HAS TAKEN PLACE.
7. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT.
8. COORDINATE WITH THE GOVERNING REGULATORY AGENCY REGARDING CONSTRUCTION/INSTALLATION OF STREET NAME AND REGULATORY SIGNS.
9. MAINTAIN REQUIRED HORIZONTAL CLEARANCE BETWEEN WATER PIPE AND PIPE CARRYING NON-POTABLE WATER. AT CROSSINGS, THERE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER PIPE (ABOVE) AND PIPE CARRYING NON-POTABLE WATER (BELOW). INSTALLATIONS FOR UTILITIES OTHER THAN POTABLE WATER MAY BE INSTALLED AT A CLEARANCE LESS THAN THOSE STATED ABOVE IF THE NON-POTABLE LINE IS SLEEVED PER THE GOVERNING REGULATORY AGENCY SPECIFICATIONS. SEE CITY OF SPOKANE SPECIFICATIONS.
10. UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO CURB, GUTTER, OR OTHER RUNOFF COLLECTION DEVICES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS.
11. IRRIGATION LINES AND CONTROLS SHOULD BE KEPT IN THE PRIVATE BORDER EASEMENTS AND OUT OF THE PUBLIC RIGHTS-OF-WAY, AS MUCH AS FEASIBLE.

GENERAL NOTES

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1



65th AVE CUL-DE-SAC.
NTS



CURB NOSEDOWN DETAIL
NTS

REFER TO LANDSCAPE PLAN FOR VEGETATION AND SEEDING. IF NOT SPECIFIED IN LANDSCAPE PLAN, ALL DISTURBED AREAS TO BE SEEDED AS FOLLOWS:
PROVIDE FRESH, CLEAN NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

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

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

GRASS SEED MIXTURE: 80 LBS. PER ACRE
FERTILIZER: 16:16:16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH CITY OF SPOKANE VALLEY STANDARDS.

CONTRACTOR SHALL IRRIGATE SEEDED AREAS UNTIL SEED HAS GERMINATED AND HAS BEEN ACCEPTED BY OWNER.

SEEDING SPECIFICATION

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1784B
DATE ACCEPTED: 08-29-18
ACCEPTANCE EXPIRES: 08-29-20
PROJECT LANE MILES PUBLIC: Ø
PROJECT LANE MILES PRIVATE: Ø
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	DESC / DATE	BY
5		
4		
3		
2		
1		

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

SHEET TITLE: DETAILS

PROJECT TITLE: MORAN VIEW ESTATES 1ST ADD. SPOKANE COUNTY WASHINGTON

SEAL: JERRY D. STORHAUG, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

DATE	08/09/2018
DRAWN	KAH
CHECKED	JDS
PROJECT NUMBER	17-335
DRAWING NO.	4 OF 4
	DETAILS

17-335-ST 4 DETAILS.dwg SH 4 DETAILS

TABLE

1	18" WIDE GRAVEL DRIVEWAY WITH 3" (3"-5") TILL BASE AND 1" (1"-2") CRUSHED ROCK TOP. SEE DETAIL ON SHEET 2 FOR MORE INFORMATION.
2	CONTRACTOR TO PROTECT AND PRESERVE EXISTING UTILITIES. COORDINATE WITH INTERMEDIATE DEVELOPMENT TO ENSURE UTILITIES ARE PROTECTED AS NECESSARY. SEE NOTES ON SHEET 2 FOR ADDITIONAL SEWER AND WATER IMPROVEMENT PLANS FOR MORE INFORMATION. (TYP)
3	CREATE SMOOTH TRANSITION FROM EDGE OF DRIVEWAY TO EXISTING GRADE. SEE DETAILS ON SHEET 2 FOR MORE INFORMATION.
4	TABLE "B1-1" TOP OF CURB = 2718.55 BOTTOM DITCH = 2716.75 MINIMUM DEPTH = 1.75 SEE FOR SECTION SPECIFICATION, THIS SHEET.
5	18" (L DIA.) L = 18 S = 0.0 (MIN.) I.E.(IN)=2718.00 (W) I.E.(OUT)=2718.00 (S) MINIMUM 1.0' OF COVER, MINIMUM.
6	18" (L DIA.) L = 20 S = 0.0 (MIN.) I.E.(IN)=2718.00 (W) I.E.(OUT)=2718.00 (S) MINIMUM 1.0' OF COVER, MINIMUM.
7	PROVIDE SUMP 4' (24-INCH) DIAMETER, AND 30" DEEP FROM (NO TRENCHES) AROUND CULVERT SHAPING DEPRESSIONS FROM DITCH INTO CULVERT.
8	PLACE RIP RAP PER SEE RIP RAP DETAIL.
9	SEE MORAN VIEW ESTATES 1ST ADDITION SHEET 2 AND DRAINAGE PLANS FOR MORE INFORMATION REGARDING DITCH AVENUE IMPROVEMENTS. (TYP.)
10	PLACE EXISTING 1"(N.A.) GRADING CONTROL BLANKET (PER SPOKANE COUNTY STANDARDS) ON DISTURBED GROUND. SEE DRAINAGE PLAN FOR MORE INFORMATION. (SUBMIT TO ENGINEER FOR REVIEW) (WITH 1" SAND)
11	20' WIDE (U.N.) BOTTOM DITCH (ELEV=2717.00). ALIGNMENT TO BE VERIFIED BY CONTRACTOR. MINIMUM BOTTOM ELEVATION 2716.00' UNLESS NOTED OTHERWISE.
12	20' LONG SAND OVERFLOW BERM. ELEV=2718.00'
13	RETAINING WALL, 2' TALL MAXIMUM
14	DO NOT DISTURB EXISTING PRIVATE DRIVEWAY IN EASEMENT
15	12' WIDE ASPHALT PAVING TO EXTEND 10' (MIN.) FROM EDGE OF CURB, AND PAVE DRIVEWAY TO MATCH EXISTING PAVEMENT SECTION TO THREE

NOTES

1. SEE APPROVED EROSION CONTROL PLANS FOR SPECIFIC PLANS FOR SILT FENCING & CONCRETE WASHOUT PLACEMENT.

2. CONTRACTOR SHALL VERIFY MINIMUM PIPE CLEARANCE, SEPARATE AND TRACE WIRE CLEARANCE, PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY.

3. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES BEFORE BEGINNING WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO EXTRA COST TO CONSTRUCTION. (SPOKANE 811) COORDINATE WITH INTERMEDIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR ALL REQUIREMENTS.

4. CONTRACTOR SHALL VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES IMMEDIATELY.

5. CONTRACTOR/DEVELOPER SHALL PROVIDE IRRIGATION FOR ALL SEEDED AREAS. (WITH VEGETATION ESTABLISHED).

DESCRIPTION	DIMENSIONS	MIN.	AVG.	MAX.	PROCEDURE
SPRINKLER # 2	SEE PLAN VIEW	1.0'	3'	5'	3'

WITH THE IMPORTANT PLAN FOR VEGETATION AND SEEDING, IF NOT SPECIFIED IN LANDSCAPE PLAN, ALL EXPOSED AREAS TO BE SEEDED AS FOLLOWS:
PRIVATE STREET: CLEAN AND TRIM SIDE COMPLYING WITH TOLERANCE FOR PLANTS AND SUBMARGIN. SEED WITH "PACIFIC NORTHWEST" BLEND OF GRASSES IN AMERICA. PROVIDE SEED MIXTURE CONTAINED OF GRASS SEEDS AND PERCENTAGES AS FOLLOWS:

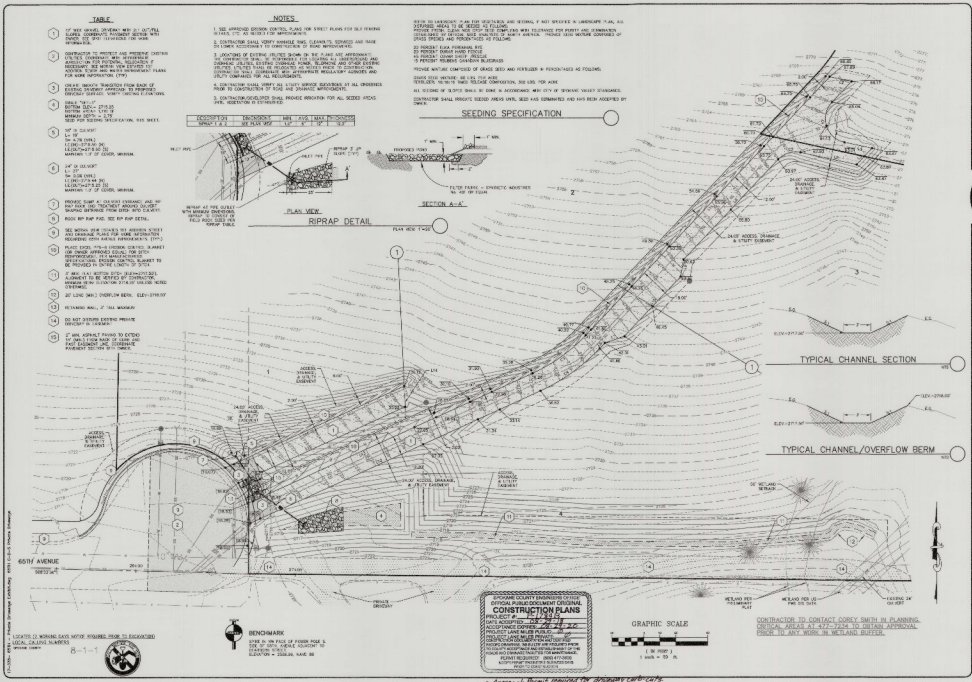
20 PERCENT EURA PERENNIAL RYE
20 PERCENT DURAR HARD FESCUE
20 PERCENT SHADOW CHEWINGS FESCUE
40 PERCENT REDBOW CHEWINGS BLUEGRASS

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

GRASS SEED MIXTURE: 100 LBS. PER ACRE
FERTILIZER: 16-16-16 WITH TRIPLE SUPER COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH CITY OF SPOKANE VALLEY STANDARDS.

CONTRACTOR SHALL PROVIDE SEEDED AREAS UNTIL SEED HAS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 17-336
PROJECT NAME: MORAN VIEW
ACCEPTANCE DATE: 07/24/18
PROJECT LAND MUST BE PUBLIC: NO
CONTRACTOR TO NOTIFY THE ENGINEERS OFFICE 24 HOURS PRIOR TO ANY WORK ON PUBLIC IMPROVEMENTS
PUBLIC IMPROVEMENTS MUST BE COMPLETED AND PUBLIC IMPROVEMENT PLANS MUST BE ON FILE WITH THE ENGINEERS OFFICE BEFORE FINAL PLAT APPROVAL
PLANS EXPIRE 2 YEARS FROM THE ACCEPTANCE DATE

LOCATION 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION
LOCAL CALLING NUMBERS
SPOKANE COUNTY
811

BENCHMARK
SPIKE IN 18" PINE OF POWER POLE S. SIDE OF DITCH, AVENUE ADJACENT TO 65TH AVENUE, NAVD 88
ELEVATION = 2706.00, NAVD 88

GRAPHIC SCALE
(IN FEET)
1 inch = 10 ft.

* Approach permits required for driveway curb cuts.
* Certification required for stormwater facilities only.

storhäug
civil engineering | planning
landscape architecture | surveying
124 WEST FIRST AVENUE | SPOKANE, WA | 99201
(509) 838-3591 | FAX (509) 838-3594

No.	DESC. / DATE	BY
1		
2		
3		
4		
5		

65TH AVE. C-D-S PRIVATE DRIVEWAYS
GRADING AND DRAINAGE EXHIBIT
PROJECT TITLE: MORAN VIEW ESTATES 1ST ADD.
SPOKANE COUNTY WASHINGTON

SEAL

DATE	06/29/2018
DRAWN	KAH
CHECKED	JDS
PROJECT NUMBER	17-336
DRAWING NO.	1 OF 1

GRADING