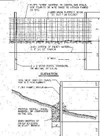
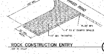
COVER SHEET
FOR
MORGAN MURPHY ESTATES
GRADING AND EROSION/SEDIMENT CONTROL PLAN
SEC. 25 & 26, T.25 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON

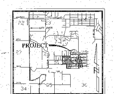


SILT FENCE DETAIL (1)
NOT TO SCALE



ROCK CONSTRUCTION ENTRY (2)
NOT TO SCALE

DRYWELL SEDIMENT BARRIER DETAIL (3)
CONSTRUCTION



VICINITY MAP

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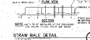


NOTE: [illegible]

STRAW BALE DETAIL (4)
NOT TO SCALE

GENERAL NOTES

1. UNLESS SPECIFICALLY EXCEPTED IN THE PLANS OR CONTRACT DOCUMENTS ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (W.S.D.O.T.) AND THE WASHINGTON CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (LATEST EDITION).
2. THE PLANS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH ACTUAL SITE CONDITIONS, REQUIREMENTS AND [illegible] WORK. WHERE LACK OF DETAIL OR CONFLICTS EXISTS BETWEEN THESE AND OTHER PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER TO RESOLVE THE ISSUE PRIOR TO PROCEEDING.
3. EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SECTION 2-03 OF W.S.D.O.T. STANDARD SPECIFICATIONS. ALL COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 2-03.3(14)C, METHOD B.
4. THESE PLANS MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
5. ALL FINISHED GRADING ELEVATIONS SHALL MATCH EXISTING ELEVATIONS AT THE SITE BOUNDARIES. SHOULD CONFLICTS EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER TO RESOLVE THE ISSUE PRIOR TO PROCEEDING.
6. NO QUANTITIES HAVE BEEN CALCULATED TO DETERMINE VOLUMES OF EXCAVATION AND EMBANKMENT ON THIS PROJECT. THE CONTRACTOR SHALL WORK WITH THE OWNER TO IDENTIFY [illegible] BORROW [illegible] WHICH MAY BE REQUIRED.
7. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED GRADING AND EROSION CONTROL PLANS ON THE JOB WHENEVER CONSTRUCTION IS IN PROGRESS.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
9. ALL CONTOURS SHOWN ON THESE PLANS ARE FINISHED GRADE CONTOURS. THE CONTRACTOR SHALL FINISH GRADE ROADS TO SUBGRADE AS SHOWN ON THE TYPICAL ROADWAY SECTIONS. SEE APPROVED STREET AND DRAINAGE PLANS.
10. ALL EXCESS EXCAVATED SOIL SHALL BE STOCKPILED ON SITE PER THE OWNERS DIRECTION.
11. CUT SLOPES IN SOLID ROCK SHALL NOT EXCEED 1/2:1 (HORIZONTAL:VERTICAL), AND SOIL CUT SLOPES SHALL NOT EXCEED 2:1 (HORIZONTAL:VERTICAL). FILL SLOPES ACROSS THE PROPERTY SHOULD BE DESIGNED FOR A MAXIMUM SLOPE OF 2:1 (HORIZONTAL:VERTICAL).
12. STRUCTURAL FILL PLACED FOR SUBDIVISION DEVELOPMENT SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557 (MODIFIED PROCTOR).

SPOKANE COUNTY [illegible]
OFFICIAL [illegible] ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1787
DATE ACQUIRED: 05-30-02
ACCEPTANCE [illegible]: 05-30-02
[illegible]

LEGEND

(symbol)	STORM DRAINAGE STRUCTURE – NO CONCRETE TRUCK WASHOUT. SEE EROSION & SEDIMENT CONTROL NOTES 4 AND 7.
(symbol)	SILT FENCE. SEE DETAIL 1 AND EROSION & SEDIMENT CONTROL NOTE 5.
(symbol)	ROCK CONSTRUCTION ENTRY. SEE DETAIL 2 AND EROSION & SEDIMENT CONTROL NOTE 6.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
[illegible]

EROSION & SEDIMENT CONTROL

1. AN EROSION/SEDIMENT CONTROL (E.S.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE E.S.C. PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE E.S.C. FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
2. APPROVAL OF THE E.S.C. PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE E.S.C. PLAN.
3. THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE E.S.C. MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM OTHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, INLETS, PONDS OR CULVERTS.
4. GEOTEXTILE FABRIC IS TO BE PLACED BETWEEN THE RIMS AND GRATES OF DRYWELLS, CATCH BASINS AND INLETS UNTIL SUCH TIME THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
5. SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. SEE DETAIL (2)
7. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR NOR DRAINING INTO A STORM DRAINAGE STRUCTURE OR TRACT AREA.
8. PROPERTY OWNER: [illegible], 303 W. BOONE AVE., SPOKANE, WA 99201
9. PROJECT LOCATION: THE MORGAN MURPHY ESTATES SITE IS SITUATED EAST OF GLENROSE ROAD AT THE EASTERLY TERMINUS OF 29TH AVENUE [illegible] AND 26TH AVENUE IN SECTION 25, TOWNSHIP 25 NORTH, RANGE 43 EAST, W.M. IN SPOKANE COUNTY WASHINGTON.
10. PROJECT DESCRIPTION: MORGAN MURPHY ESTATES CONSISTS OF 43 SEMI-RURAL RESIDENTIAL LOTS ZONED SRR-5. SITE DEVELOPMENT INCLUDES APPROXIMATELY 8,500 LINEAR FEET OF NEW PRIVATE STREETS, CURB AND SIDEWALK, WITH ASSOCIATED WATER, SEWER AND STORM DRAINAGE, AND APPROXIMATELY [illegible] LINEAR FEET OF REPAVING THE EXISTING 29TH AVENUE ROADWAY.
11. DESCRIPTION OF E.S.C. MEASURES: USE OF SILT FENCES AND ROCK CONSTRUCTION ENTRANCES. ALL E.S.C. MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER [illegible]. ALL LANDSCAPED.
12. EXISTING VEGETATION: FIELD GRASS AND PINE TREES.
13. PLAN PREPARATION DATE: OCTOBER 5, 2001
14. SOILS: ONSITE SOILS INCLUDE BERNHILL SILT LOAM (BeB), GLENROSE SILT LOAM [illegible], GLENROSE GRAVELLY SILT LOAM [illegible], GLENROSE STONY SILT LOAM [illegible], MARBLE SANDY LOAM [illegible], PHOLLE SANDY LOAM [illegible], SPOKANE LOAMS [illegible], SPOKANE STONY LOAM (SrC), AND SPOKANE VERY ROCKY COMPLEX [illegible].
15. ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30–45 DAYS SHALL BE SEEDED WITH A FAST STARTING NATIVE DRYLAND GRASS, SUCH AS ANNUAL RYE OR APPROVED EQUAL, AT A RATE OF 50 lbs/ACRE.
16. ALL DRAINAGE CHANNELS SHALL BE EVALUATED FOR EROSION POTENTIAL. THOSE DRAINAGE COURSES WHICH ARE TO RECEIVE CONCENTRATED STORM WATER RUNOFF AND ARE FOUND TO BE SUBJECT TO EROSION FROM THE ANTICIPATED POST DEVELOPMENT RUNOFF SHALL BE EITHER LINED OR RIP RAPPED TO MINIMIZE THE POTENTIAL FOR EXCESSIVE EROSION.
17. EACH DRAINAGE POND (ONSITE AND OFF-SITE) SHALL BE SHAPED IN ACCORDANCE WITH THE APPROVED STREET AND DRAINAGE PLANS, SODDED, CERTIFIED BY THE INSPECTION AGENCY AND ACCEPTED BY THE SPOKANE COUNTY PARKS AND ENGINEERING DEPARTMENTS PRIOR TO ACCEPTING ANY STORMWATER RUNOFF.

MAINTENANCE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL TEMPORARY E.S.C. MEASURES.
2. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE E.S.C. STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. ALL TEMPORARY AND PERMANENT E.S.C. PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
7. ALL TEMPORARY E.S.C. MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DUST, MUD AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING WATER UNDER PRESSURE. SWEEPING AND WATER SHALL BE USED WHEN WATER PRESSURE ALONE WILL NOT WASH THE CONSTRUCTION DEBRIS FROM THE STREET.
9. DUST CONTROL: AN APPROVED METHOD OF DUST CONTROL, MEETING THE REQUIREMENTS OF LOCAL REGULATIONS SHALL BE UTILIZED DURING THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MATERIALS WHICH SPILL ONTO LOCAL STREETS DURING THE TRANSPORTATION OF THE EQUIPMENT. SHOULD A SPILL OCCUR, THE CONTRACTOR SHALL REMOVE THE MATERIAL BY THE END OF THE WORK DAY. NO MATERIAL SHALL BE ALLOWED TO SET, DRY OR BE WASHED INTO ADJACENT STORMWATER FACILITIES.

CERTIFICATION STATEMENT: I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL PLAN MEETS THE E.S.C. REQUIREMENTS OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

JOHN FRANK SAYWERS, P.E. 5/30/02

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

DEVELOPER'S APPROVAL — DATE 5/30/02

Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF JOHN FRANK SAYWERS, P.E. WASHINGTON REGISTRATION NO. [illegible] FOR AND ON BEHALF OF [illegible] ASSOCIATES, INC.

EXPIRES: 5/18/04

Date | Description

Project Number: [illegible]
[illegible] Number: [illegible]
Drawn By: [illegible]
Designed By: [illegible]
Checked By: [illegible]

GRADING AND EROSION/SEDIMENT CONTROL PLANS
MORGAN MURPHY ESTATES
COVER SHEET
SPOKANE COUNTY, WASHINGTON

Sheet Title
COVER SHEET

1 of 7
Sheet Number

P1787

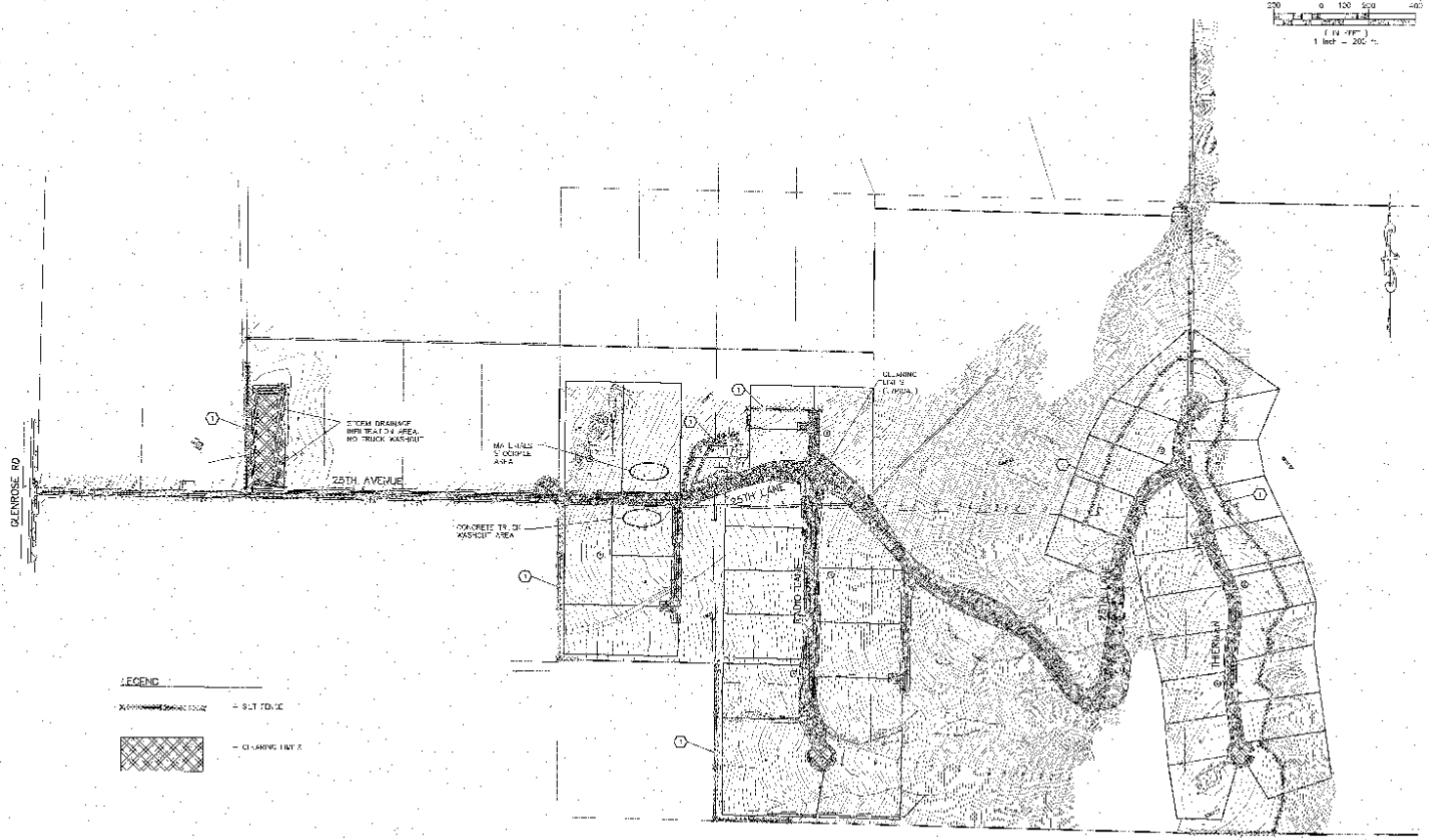
SEC. 26, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1. INSTALL SILT FENCE SEE DETAIL ON SHEET 1 OF 7.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
TWO BUSINESS DAYS
BEFORE YOU DIG

GRAPHIC SCALE
200 0 100 200 400
(IN FEET)
1 inch = 200 ft.



COUNTY DATUM
BASED ON STATE ELEVATION FOR THE SOUTHEAST
CORNER OF THE SOUTHWEST QUARTER OF SECTION
26 T.25 N., R.43 E.W.M. PER U.S. JERRY
SMITH, SPOKANE COUNTY ENGINEER.

SPOKANE COUNTY ENGINEERING
STORM WATER POLLUTION PREVENTION
CONSTRUCTION PLANS
PROJECT: P(03)
SITE ADDRESS: 04-06-05
APPROVED ON: 04-06-05
SPOKANE COUNTY ENGINEER: 04/06/05
THIS PLAN SHALL EXPIRE: 1-1-2006
PROJECT ENGINEER: [illegible]
SIGNATURE REQUIRED: [illegible]
WHEN ALL WORK IS COMPLETE, THE PROJECT ENGINEER MUST SIGN AND RETURN THIS PLAN TO THE SPOKANE COUNTY ENGINEERING DEPARTMENT.
THIS PLAN EXPIRES ONE YEAR FROM APPROVAL DATE.

DEVELOPER'S APPROVAL

DATE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
TWO BUSINESS DAYS
BEFORE YOU DIG

Associates, Inc.
Planning
Engineering
Surveying
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN FRANK SAVERS, P.E.
WASHINGTON REGISTRATION
NO. 38172
FOR AND ON BEHALF OF
FIF ASSOCIATES INC.

Date of Plan: [illegible]
FIF Job Number: [illegible]
Drawn By: [illegible]
Designed By: [illegible]
Checked By: [illegible]

SPOKANE COUNTY PLANS
FORSAN SURPLUS ESTATES
P-03-01
SPOKANE COUNTY, WASHINGTON

SHEET TITLE
COVER SHEET

2 of 7
SHEET NUMBER

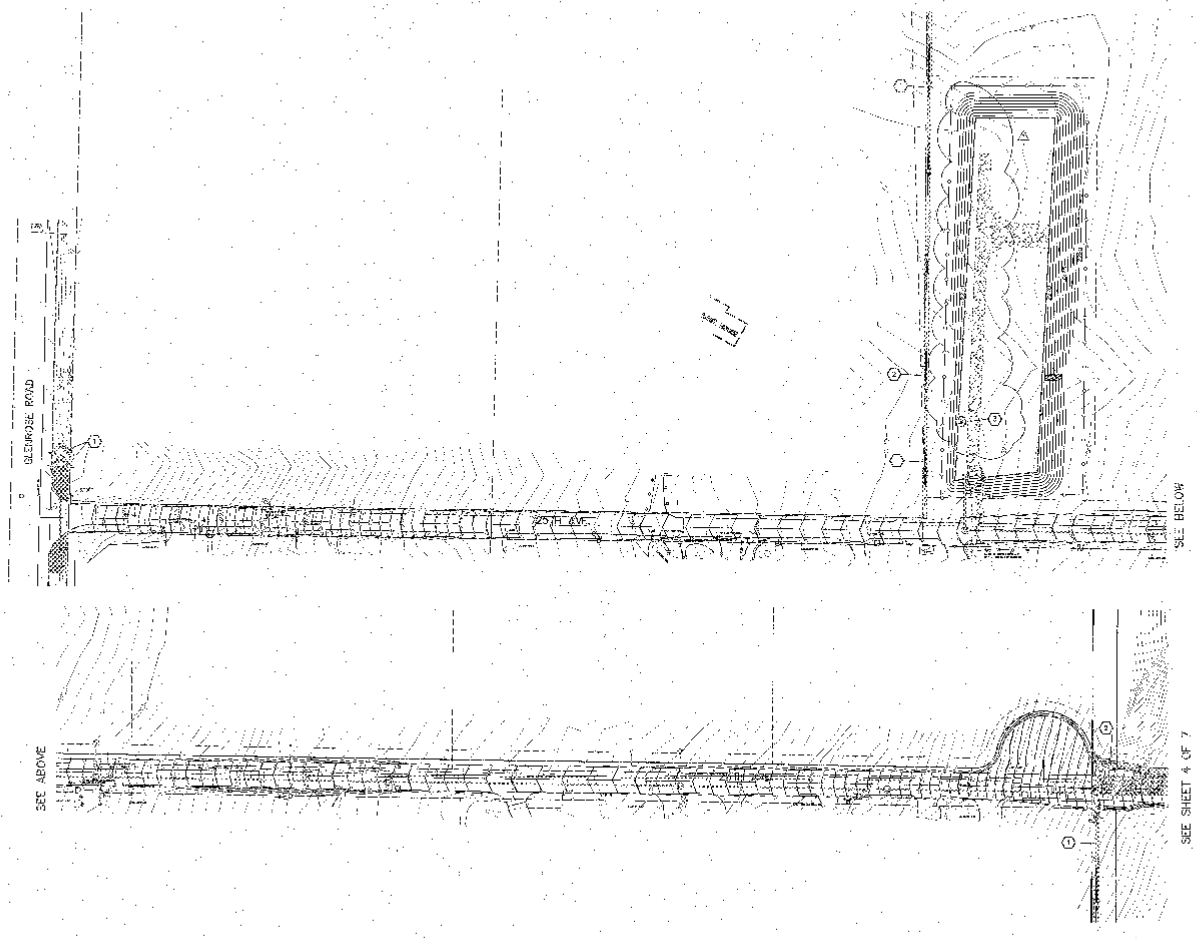
SEC. 28, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1. INSTALL SILT FENCE, SEE DETAIL 1 ON SHEET 1 OF 7.
2. INSTALL HAY BALE, SEE DETAIL 4 ON SHEET 1 OF 7.
3. DRYWELL SEDIMENT BARRIER, SEE DETAIL 2 ON SHEET 1 OF 7.
4. ROCK CONSTRUCTION ENTRY, SEE DETAIL 7 ON SHEET 1 OF 7.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 INCH = 50 FT.



COUNTY DATUM
BASED ON GPS ELEVATION FOR THE SW CORNER
OF SECTION 28 T.25 N., R.43 E.W.M.
SECTION 28 CHISHOLM ROAD PATTERSON
SPOKANE COUNTY, WASHINGTON

DEVELOPER'S APPROVAL

DATE

Spokane County Engineers
CONSTRUCTION PLANS
PROJECT NAME
PROJECT NUMBER
DATE
CONSTRUCTION ENGINEER
CONTRACTOR
PRINT NAME
SIGNATURE
DATE

Spokane County Engineers
Planning
Transportation
Construction
Landscape Architecture
and Surveying

Spokane, Washington
Tel (509) 326-2600
Fax (509) 326-2601

REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON

VARIANCE UNDER THE DIRECT SUPERVISION OF
DAVID E. DAVIS, P.E.
AND MEETS REGISTRATION
NO. 16212
THE VARIANCE IS FOR THE
OLD ARBOR ESTATES, INC.

REVISIONS
NO. DATE DESCRIPTION
1 10/10/00 ADDED TEMP. SEDIMENT BASIN
2 10/22/00 FOR 3 PERM. REVISIONS

Old Arbor Estates
Sec 28 T25N R43E
Drawn By: EMT
Designed By: EMT
Checked By: JS

ROADWAY IMPROVEMENT CONTROL PLANS
OLD ARBOR ESTATES
PLAN SHEET
SPOKANE COUNTY, WASHINGTON

Sheet 3 of 7

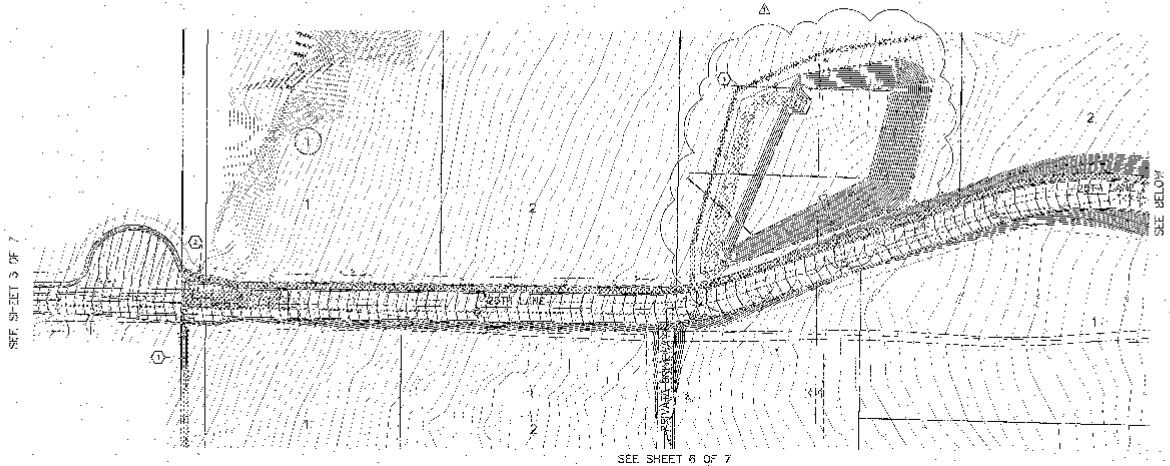
SEC. 26, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

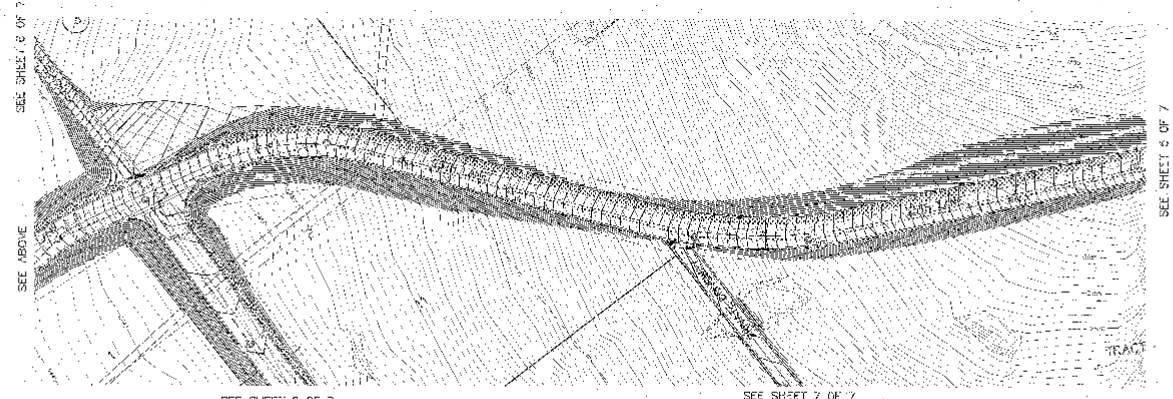
CONSTRUCTION NOTES

1. INSTALL SILT FENCE. SEE DETAIL 1 ON SHEET 1 OF 7.
2. ROCK CONSTRUCTION ENTRY. SEE DETAIL 2 ON SHEET 1 OF 7.

UNDERGROUND SERVICE ALERT
ONE CALL NUMBER
456-6000

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.





GRADING AND ENGINEERING/SEDIMENT CONTROL PLAN
MORGAN SUPPLY ESTATES
PLAN SHEET
SPOKANE COUNTY, WASHINGTON

COVER SHEET

DEVELOPER'S APPROVAL

DATE

© COUNTY DATUM

SEC. 26, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

① INSTALL SILT FENCE. SEE DETAIL ON SHEET 1 OF 7.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR THE SPOKANE
OF SECTION 26 (EL. 2333.72) AND 1/4 OF
SECTION 26 (EL. 2439.37) REQUIRED BY JERRY
MINOR, SPOKANE COUNTY ENGINEERS

DEVELOPER'S APPROVAL

DATE

Associates, Inc.
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN FRANK DAVIDSON, P.E.
WASHINGTON REGISTRATION
NO. 30272
FOR AND ON BEHALF OF
CLF ASSOCIATES, INC.

CLIENT: CLF ASSOCIATES
NO/PROJECT: OCONA PLAN PREPARATION
COLLEGE NO: SPOKANE COUNTY

Project Number: 0000000
Job Log Number: 0000000
Drawn By: [illegible]
Designed By: [illegible]
Checked By: [illegible]

GRADING AND ENCROACHMENT CONTROL PLANS
NORTHERN HAMPTON ESTATES
PLAN SHEET
SPOKANE COUNTY, WASHINGTON

SHEET 5 OF 7

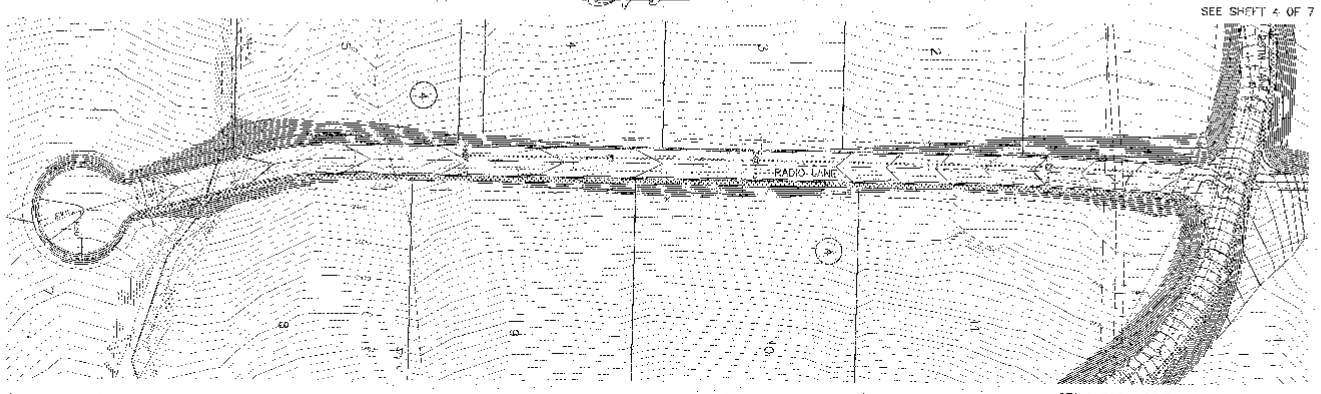
SEC. 26, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

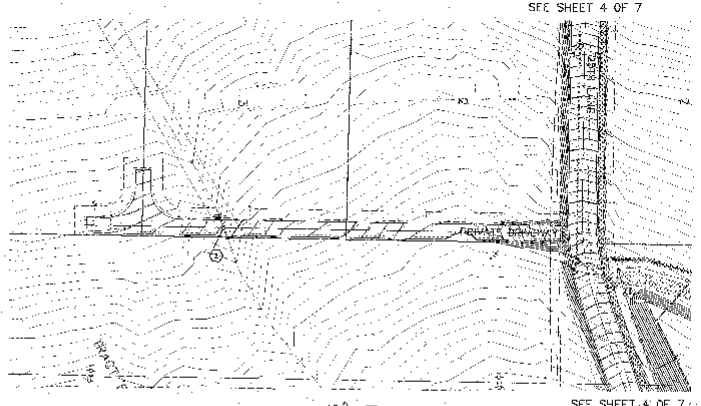
CONSTRUCTION NOTES

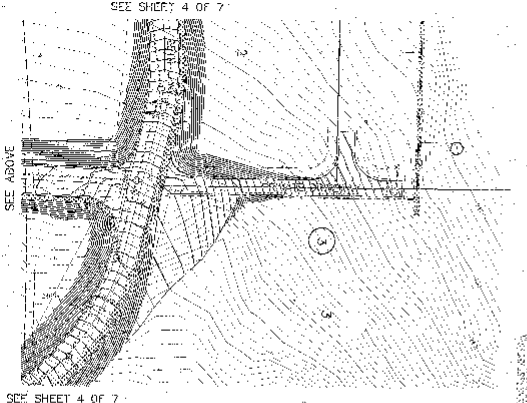
1. INSTALL SILT FENCE. SEE DETAIL 1 ON SHEET 1 OF 7.
2. INSTALL 28 L.F. OF 12" N-12-AXS, OR EQUAL PIPE CULVERT @ S=0.0504; F(P)=2+02.50, E(W)=2+20.00

UNDERGROUND SERVICE ALERT
CHE-CALL NUMBER
456-3000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.







COUNTY DATUM
[illegible]

DEVELOPER'S APPROVAL

DATE

GRAPHIC SCALE

PREPARED UNDER THE DIRECT SUPERVISION OF JOHN FRANK BAYWARD, JR. WASHINGTON REGISTRATION NO. [illegible]
FOR AND ON BEHALF OF [illegible] ASSOCIATES, INC.

Project Number: 5990082
Client Number: 5990082
Drawn By: [illegible]
Designed By: [illegible]
Checked By: [illegible]

GRADING AND ENGINEERING CONTROL PLANS
MORGAN HUNTER ESTATES
PLAN SHEET
SPOKANE COUNTY, WASHINGTON

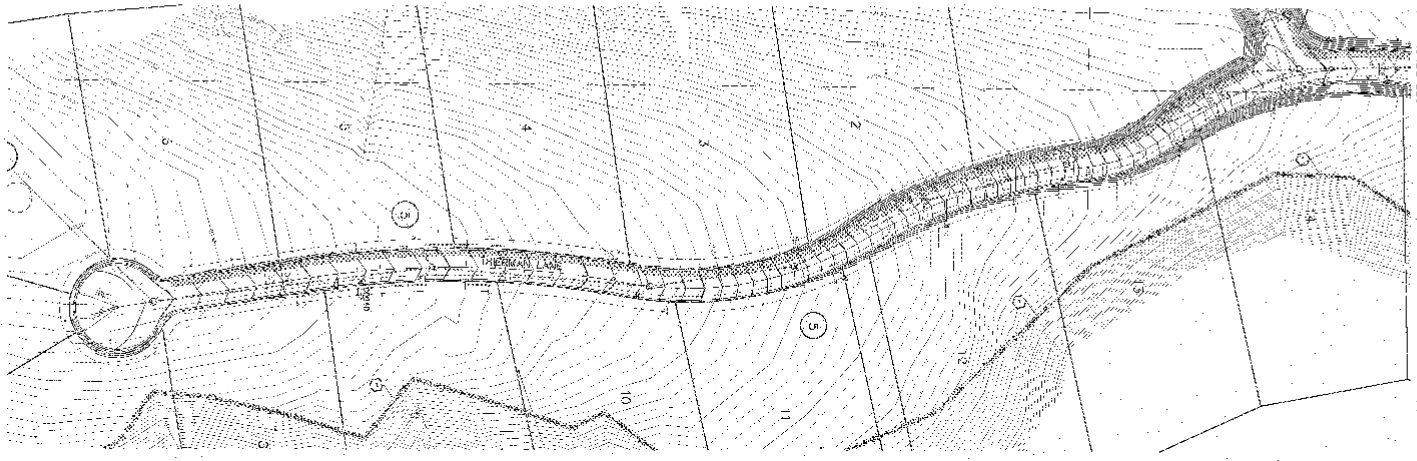
SHEET 6 of 7

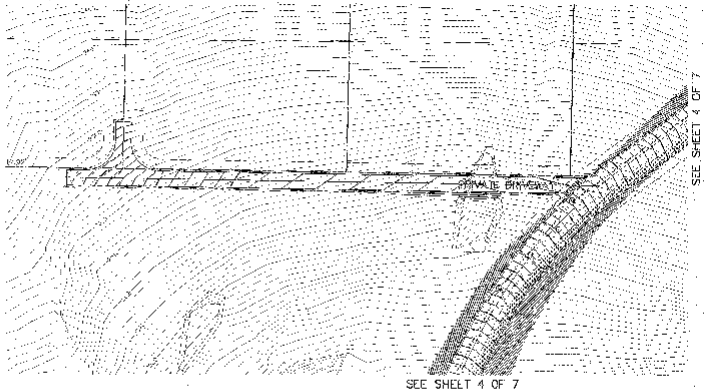
SEC. 28, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

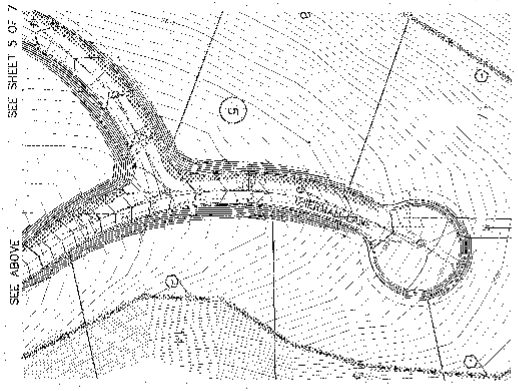
CONSTRUCTION NOTES

INS ALL SILT FENCE. SEE DETAIL 1 ON SHEET 1 OF 7.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000







GRAPHIC SCALE
1 inch = 50 ft.

SPOKANE COUNTY DRAINAGE DIVISION
CONSTRUCTION PLAN
PROJECT: PDW

COUNTY DATUM
BASED ON SPS ELEVATION FOR T.25 N. CORNER OF SECTION 28 (EL=2335.70) AND 0.75 SECTION 29 (EL=2478.0) INDICATED BY ERRY STAKE SPOKANE COUNTY ENGINEERS

DEVELOPER'S APPROVAL

DATE

Plumbing
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF JOHN FRANK SAYMERS, P.E. WASHINGTON REGISTRATION NO. 20817 FOR AND ON BEHALF OF GEO. ASSOCIATES, INC.

Project Number: 5990000
File Number: 5990000
Drawn By: DHT
Designed By: DHB
Checked By: JTS

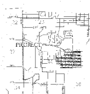
GRAPHIC AND PROPOSED CONTROL PLAN
BORGAN MURPHY ESTATES
7 AN SHEET
SPOKANE COUNTY, WASHINGTON

COVER SHEET

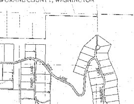
7 of 7

COVER SHEET
FOR
MORGAN MURPHY ESTATES
STREET AND STORM DRAINAGE PLANS

SEC. 25 & 26, T.25 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON



VICINITY MAP
NO SCALE



SPOKANE COUNTY ENGINEER'S
APPROVAL IS FOR THE FOLLOWING
CONSTRUCTION PLANS
[illegible]

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POND DETAILS	SHEET S3.01

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AND AS AMENDED.

2. THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN [illegible] & SHUT DOWN OF WORK, AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.

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

4. 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 ROAD AND DRAINAGE FACILITIES.

5. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000, BEFORE YOU DIG.

6. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THEY SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, CLC ASSOCIATES, JOHN SAWYERS, P.E. @ 455-5840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, S.I.I. NORTHWEST, BRUCE HOWARD @ 921-9771, AND THE SPOKANE COUNTY ENGINEER'S OFFICE @ 477-3600.

7. FOR CONSTRUCTION OF DRY WELLS, INSTALL FILTER FABRIC "AMOCO" 4546 OR APPROVED EQUIVALENT, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAIN ROCK, AND BETWEEN THE WASHED DRAIN ROCK AND NATIVE SOILS. SEE SPOKANE COUNTY STANDARD DETAILS [illegible] AND [illegible].

8. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRY WELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC BETWEEN THE RIM AND GRATE FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER A DRYWELL OR CATCH BASIN, THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN TO THE SATISFACTION OF THE OPERATING ENGINEER.

9. [illegible] CONCRETE CAP AND [illegible] FLOW AS DIRECTED [illegible] THE PLANS.

10. ALL CURB DROP INLETS ARE TO HAVE A 2" DEPRESSION PER FIGURE [illegible], PAGE [illegible] OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL GUTTER INLETS SHALL BE CONSTRUCTED PER STANDARD DETAIL [illegible].

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PUBLIC STREETS ADJACENT TO THE SITE AS A RESULT OF THE CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING WATER UNDER PRESSURE. [illegible] THE CONSTRUCTION DEBRIS FROM THE STREETS.

12. FOR ANY CURB GRADE LESS THAN 0.8% (0.008 FT/FT), A WASHINGTON STATE PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMWORK IS AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR APPARATUS AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

13. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT [illegible] PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTER SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL [illegible] OF THE CONCRETE GUTTER.

14. THE FLOOR OF A GRASSED PERCOLATION AREA (G.P.A.) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE AND THE SIDESLOPES OF THE SWALE UP TO THE G.P.A. SWALE OVERFLOW ELEVATION [illegible]. THE SOIL [illegible] THE G.P.A. SWALE SHALL BE A MEDIUM TO WELL DRAINING [illegible] WITH A MINIMUM INFILTRATION RATE OF [illegible] INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT [illegible] SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING [illegible] LANDSCAPING AND PRIOR TO FINAL [illegible]. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED ON A NATIVE SOIL STRATUM WHICH [illegible] INFILTRATION RATE OF [illegible] INCHES PER HOUR.

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF [illegible] IMPROVEMENTS SHALL MEET OR EXCEED SITE CODE STANDARDS AND [illegible] AND SPECIFICATIONS [illegible] APPLICABLE STATE AND FEDERAL REGULATIONS. WHEN THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC [illegible] OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE [illegible] INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY ENGINEER OF RECORD.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE COUNTY OF SPOKANE AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (SPOKANE COUNTY), FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO THE SPOKANE COUNTY [illegible] AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE RECORD DRAWINGS.

14. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.

16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

17. THE CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR ALL WORK IN PUBLIC ROADS AND RIGHT-OF-WAY TO THE COUNTY OF SPOKANE BEFORE BEGINNING ANY WORK ON THOSE ROADS. CONTRACTOR SHALL BEGIN WORK ONLY AFTER THE COUNTY OF SPOKANE APPROVES THE PHASING PLAN, AND A PRECONSTRUCTION MEETING IS HELD BETWEEN THE COUNTY OF SPOKANE, THE ENGINEER AND THE CONTRACTOR.

18. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 6:00 A.M. AND 10:00 P.M. EVERYDAY UNLESS OTHERWISE APPROVED BY THE COUNTY OF SPOKANE.

19. BASED ON A REQUIREMENT FROM A LOCAL JURISDICTION THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.

20. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS WITH THE CONTRACTOR'S SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

DEVELOPER'S APPROVAL ______ DATE ______

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

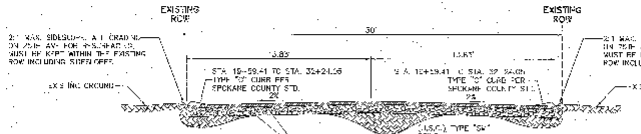
CLC Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF [illegible] FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

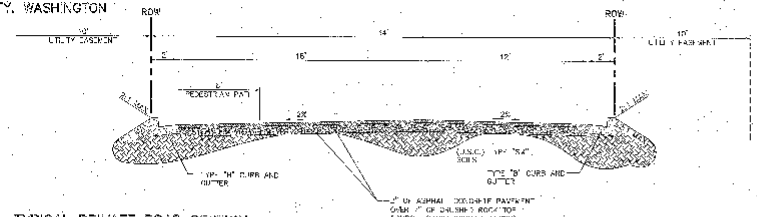
STREET & DRAINAGE CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
COVER SHEET
SPOKANE COUNTY, WA

STREET & STORM DRAINAGE PLANS
S1.00

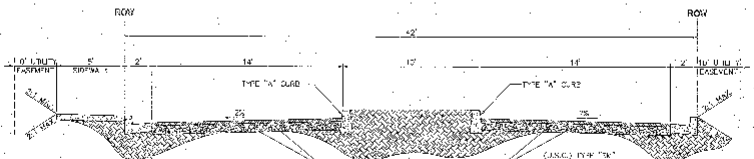
SEC. 25 & 26, T.25 N., R.43 E., W.M.
SPOKANE COUNTY, WASHINGTON



TYPICAL PUBLIC ROAD SECTION
25TH AVENUE – STA. 10+00 TO STA. 32+24.05
NOT TO SCALE



TYPICAL PRIVATE ROAD SECTION
25TH LANE – STA. 43+00.83 TO STA. 39+22.25
THIERMAN LANE – STA. 10+00 TO STA. 25+30.02
NOT TO SCALE



TYPICAL PRIVATE ROAD SECTION
25TH LANE – STA. 32+24.84 TO STA. 32+95.05
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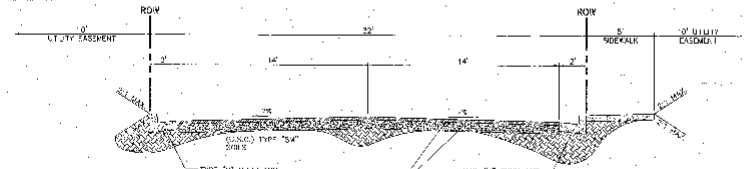
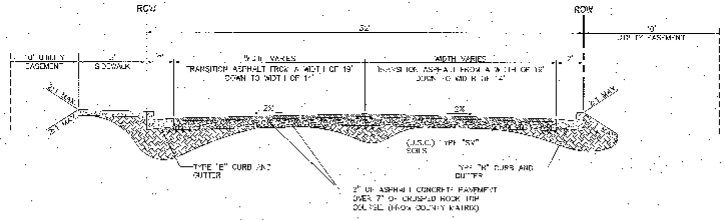


TYPICAL PRIVATE ROAD SECTION
RADIO LANE – STA. 10+00 TO STA. 20+31.74
NOT TO SCALE



TYPICAL PRIVATE ROAD SECTION
25TH LANE – STA. 32+95.05 TO STA. 32+05.25
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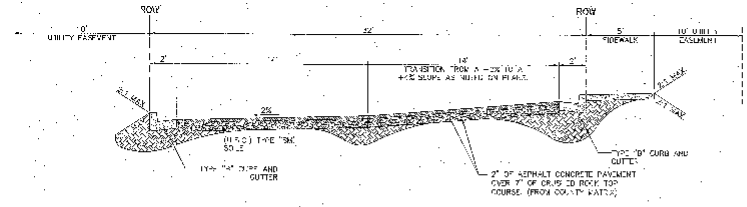
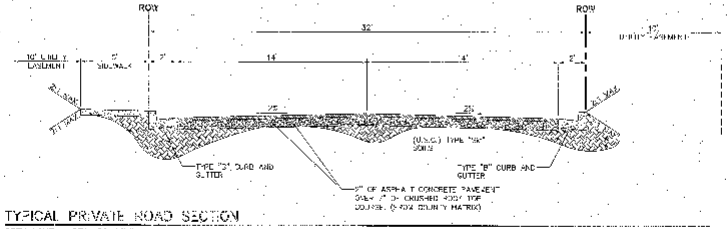
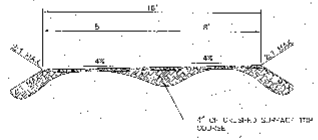


TYPICAL PRIVATE ROAD SECTION
RADIO LANE – STA. 20+34.74 TO STA. 21+34.74
NOT TO SCALE



TYPICAL PRIVATE ROAD SECTION
25TH LANE – STA. 32+95.25 TO STA. 43+00.83
NOT TO SCALE



TYPICAL PRIVATE DRIVEWAY SECTION
NOT TO SCALE

SPOKANE COUNTY ENGINEER'S OFFICE
STREET CONSTRUCTION PLANS
CONSTRUCTION PLANS

DEVELOPER'S APPROVAL

DATE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-6000

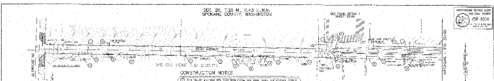
Dawning Engineering
Consultants
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN FRANK SAYLOR
STATE OF WASHINGTON REGISTRATION NO. 18107
FOR AND ON BEHALF OF
CLD ASSOCIATES, INC.

STREET CONSTRUCTION PLANS
SPOKANE COUNTY, WASHINGTON
TYPICAL ROAD CROSS SECTIONS

SHEET
STREET
GENERAL
NOTES
S1.01

SEC. 26, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

CONSTRUCTION NOTES

1. TYPE "B-48" MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLANS ... SEE STORM DRAIN PLANS FOR LOCATION AND RIM ELEVATION INFORMATION.
2. ... DRAIN INLET TYPE "1" PER STANDARD PLAN ... SEE STORM DRAINAGE PLANS FOR LOCATION AND RIM ELEVATION.
3. TYPE "B" ASPHALT CONCRETE CURB PER SPOKANE COUNTY STANDARD PLAN ...
4. RELOCATE EXISTING MAILBOX(ES) AS REQUIRED.
5. COORDINATE RELOCATION OF EXISTING UTILITIES WITH UTILITY COMPANY AS REQUIRED.
6. ... EXISTING CULVERT ... DITCH USE.

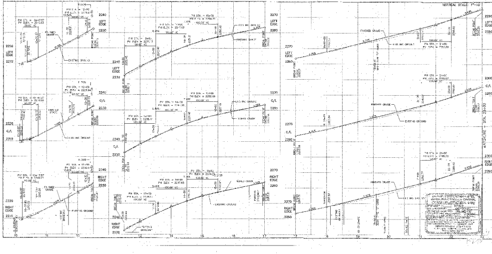
SEE STORM DRAIN PLANS FOR PIPE INFORMATION

© COUNTY DATUM

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1000.00	77.45	38.76	77.46	4°26'2[illegible]"
C2	1000.00	77.48	38.76	77.46	4°26'1[illegible]"

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

DEVELOPER'S APPROVAL — DATE



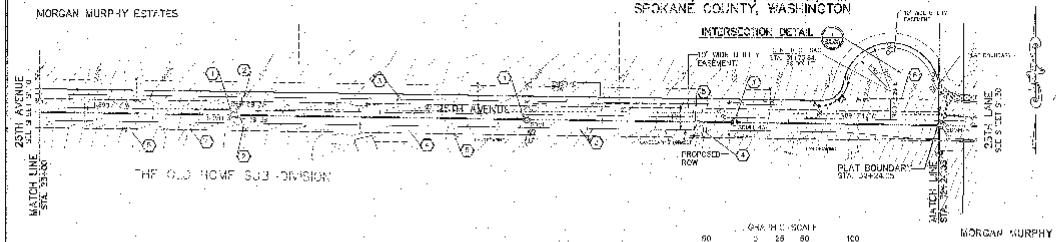
STREET CONSTRUCTION PLANS
25TH AVE
STA. 15+00 TO STA. 23+00
SPOKANE COUNTY, WA

STREET PLAN AND PROFILE

MORGAN MURPHY ESTATES

SEC. 28, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

INTERSECTION DETAIL



CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C3	30.00	41.79	24.56	38.5	79°51'05"
C4	45.00	150.39	194.95	77.29	192°32'55"
C5	30.00	3.91	7.06	13.73	7°5'42"

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

CONSTRUCTION NOTES

1. TYPE "M-16" MANHOLE WITH CAST IRON FRAME AND SOLID COVER FOR SPOKANE COUNTY STANDARD PLAN A-5 & A-6 AND U-19. SEE STORM DRAIN PLANS FOR INFORMATION.
2. WSDOT GRATE INLET TYPE "2" PER STANDARD PLAN M-40.10 SEE DRAINAGE PLANS FOR LOCATION AND R/L CLEAN RING.
3. TYPE "C" ASPHALT CONCRETE CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
4. RELOCATE EXISTING MAILBOX(ES) AS REQUIRED.
5. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES WITH UTILITY COMPANY AS REQUIRED.
6. REMOVE EXISTING FENCE

SEE STORM DRAIN PLANS FOR PIPE INFORMATION.

MORGAN MURPHY ESTATES

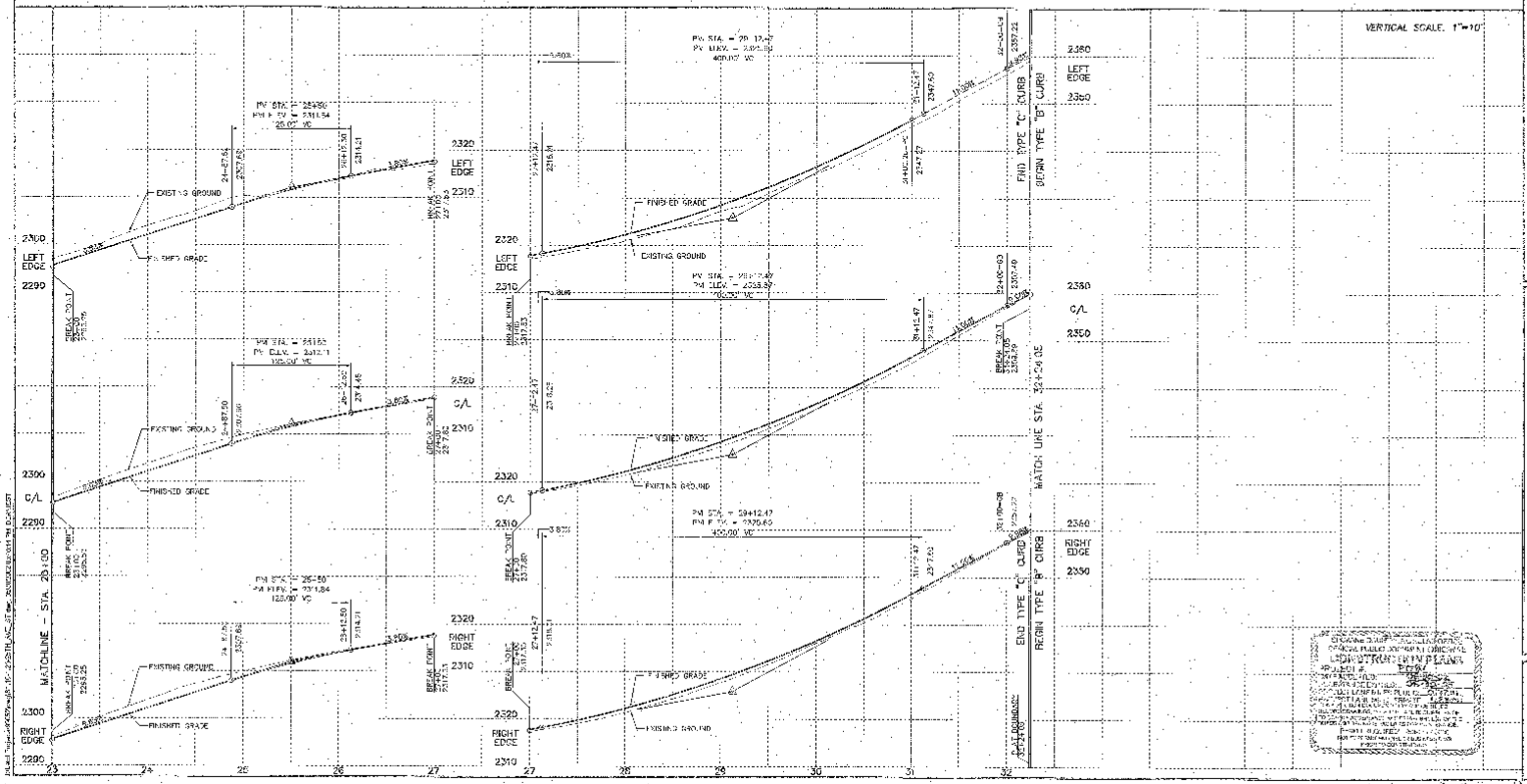
COUNTY DATUM
BASED ON U.S. ELEVATION FOR THE BENCHMARK OF BEGINNING 28 T.25 - 23.33.70; MSL = 1,214.10
ELEVATION OF TBL = 2,479.337 PROVIDED BY JOHN NAVY, SPOKANE COUNTY ENGINEERS

SEE SHEET 3/10 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'

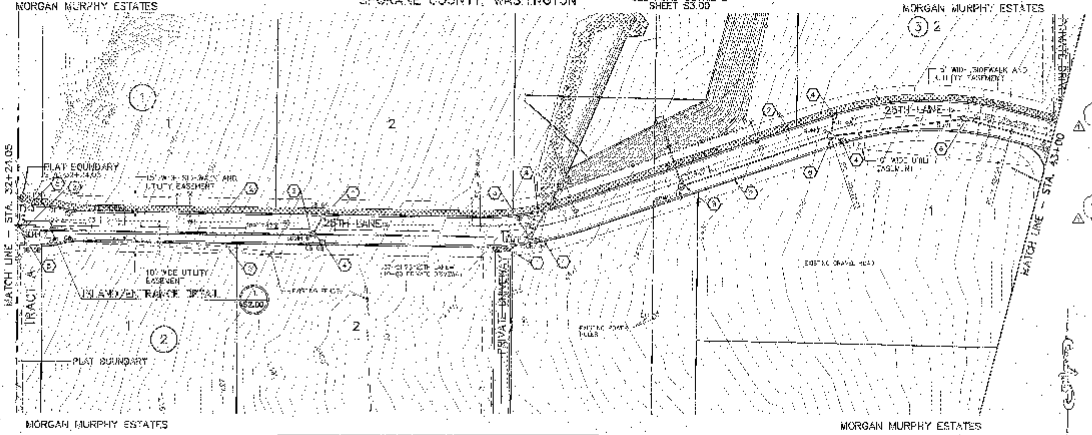


STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
23RD AVE
STA. 23+00 TO STA. 32+04.05
SPOKANE COUNTY, WA

SHEET 3/20
START PLAN
AND
PROFILE

3120

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. 10' WIDE CEMENT CONCRETE APPROACH PER SPOKANE COUNTY STANDARD PLAN A-7.
2. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-5.
3. TYPE "B-48" MANHOLE WITH 12"ø HIGH WALL WITH SOLID COVER PER SPOKANE COUNTY STANDARD PLAN B-5 AND B-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
4. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-6 AND B-15. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
5. WSDOT SHARP INLET TYPE "2" WSDOT STANDARD PLAN B-30. SEE STORM DRAINAGE PLANS FOR LOCATION AND RIM ELEVATIONS.
6. TYPE "B-54" MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN B-5 AND B-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.

SEE STORM DRAIN PLANS FOR PIPE INFORMATION

COUNTY DATUM

BASED ON CITY ELEVATION FOR THE SW CORNER OF SECTION 25, T.25 N., R.43 E., W.M. ELEVATION = 1,264.0 FEET, PROVIDED BY JERRY SIMONS, SPOKANE COUNTY ENGINEER

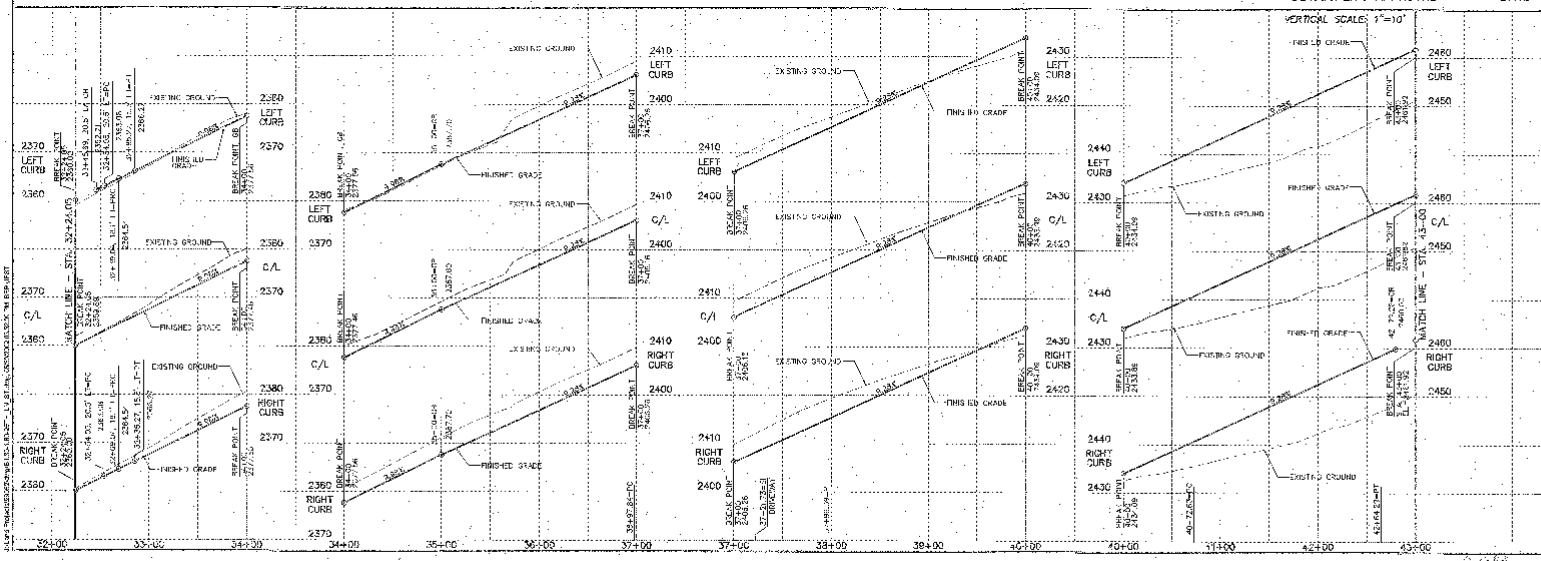
CURVE TABLE					
CURVE	RADIUS	ARC LENGTH	TANGENT	CHORD	DELTA
C1	42.00	5.72	2.93	5.65	18°11'42"
C2	50.00	16.04	8.06	5.97	18°11'42"
C3	50.00	22.99	11.69	22.43	42°33'58"
C4	50.00	16.04	8.06	5.97	18°11'42"
C5	49.50	15.87	8.00	5.80	18°11'42"
C6	350.00	191.55	98.37	189.07	32°24'41"
C7	350.00	191.65	98.62	189.17	33°16'33"

NOTE: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

DEVELOPER'S APPROVAL

DATE



UNDERGROUND SERVICE ALERT
ONE CALL NUMBER
456-6000

Planning
Civil Engineering
Architecture
Landscape Architecture
Land Surveying
Associates, Inc.

STATE OF WASHINGTON
JOHN MICHAEL DAVORE
22304
REGISTERED PROFESSIONAL ENGINEER

PREPARED UNDER THE DIRECT SUPERVISION OF:
JOHN MICHAEL DAVORE, PE
REGISTRATION NUMBER 22304
FOR AND ON BEHALF OF
CTA ARCHITECTS, INC.

DATE: 4-27-07
REVISIONS:
1 5/7/07 GENERAL PLAN REVISIONS
2 6/13/07 GENERAL PLAN REVISIONS
3 10/12/07

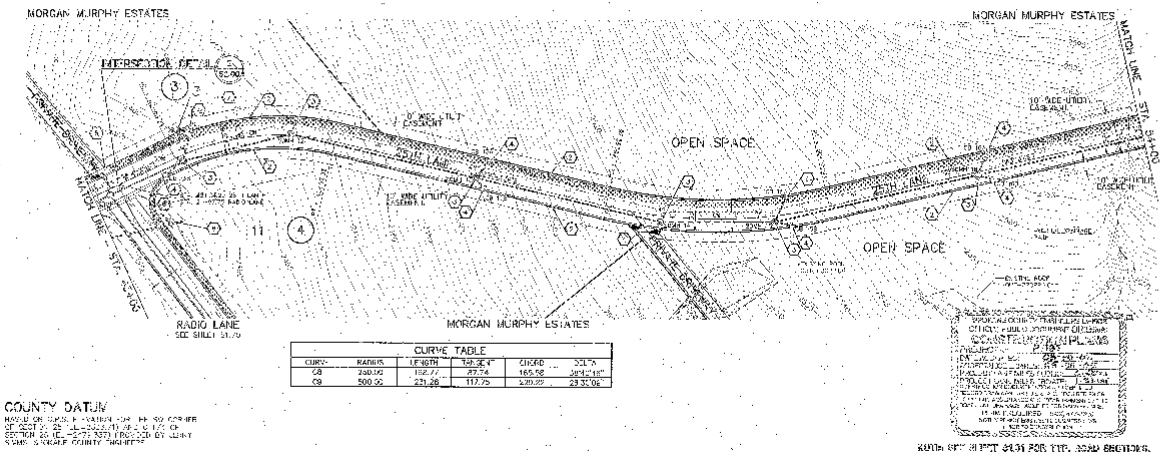
Spokane Co. No. F-1787
C.T.A. Number: 5SP0707
Drawn by: DR, RWS
Designed by: JMD
Checked By: JMD

MORGAN MURPHY ESTATES
STREET CONSTRUCTION PLANS
STA. 324+26.05 TO STA. 43+00
25TH LANE
SPOKANE COUNTY, WA

Sheet Title:
STREET PLAN AND PROFILE

S1.00

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C8	200.00	192.77	103.74	185.58	55°12'18"
C9	500.00	231.28	117.75	229.29	26°30'06"

COUNTY DATUM
BASED ON GPS [illegible] OF SECTION 25, T.25 N., R.43 E., W.M. PROVIDED BY [illegible] SPOKANE COUNTY [illegible]

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
0 25 50 100
(IN FEET)
1 inch = 50 ft.

CONSTRUCTION NOTES

1. 15' WIDE CONCRETE CURBSTOP APPROACH PER SPOKANE COUNTY STANDARD PLAN A-7.
2. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-5.
3. TYPE "1-24" WARD 7 48 IN CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN B-8 AND B-14. SEE STORM DRAIN PLANS FOR RIM ELEVATION INFORMATION.
4. TYPE "1" CATCH BASIN WITH TYPE "1" METAL GRATE AND TYPE "2" MINIMUM GRATE PER SPOKANE COUNTY STANDARD PLAN B-6, B-10 AND B-12. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
5. TYPE "1-24" WARD 7 48 IN CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN B-8 AND B-14. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
6. CROSS GUTTER TYPE "A", SHEET 2" PER SPOKANE COUNTY STANDARD PLAN B-16.
7. CONSTRUCT HANDICAP CURB RAMP PER SPOKANE COUNTY STD PLAN A-5. SEE INTERSECTION DETAIL 2, SHEET C2.00
8. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A 16.

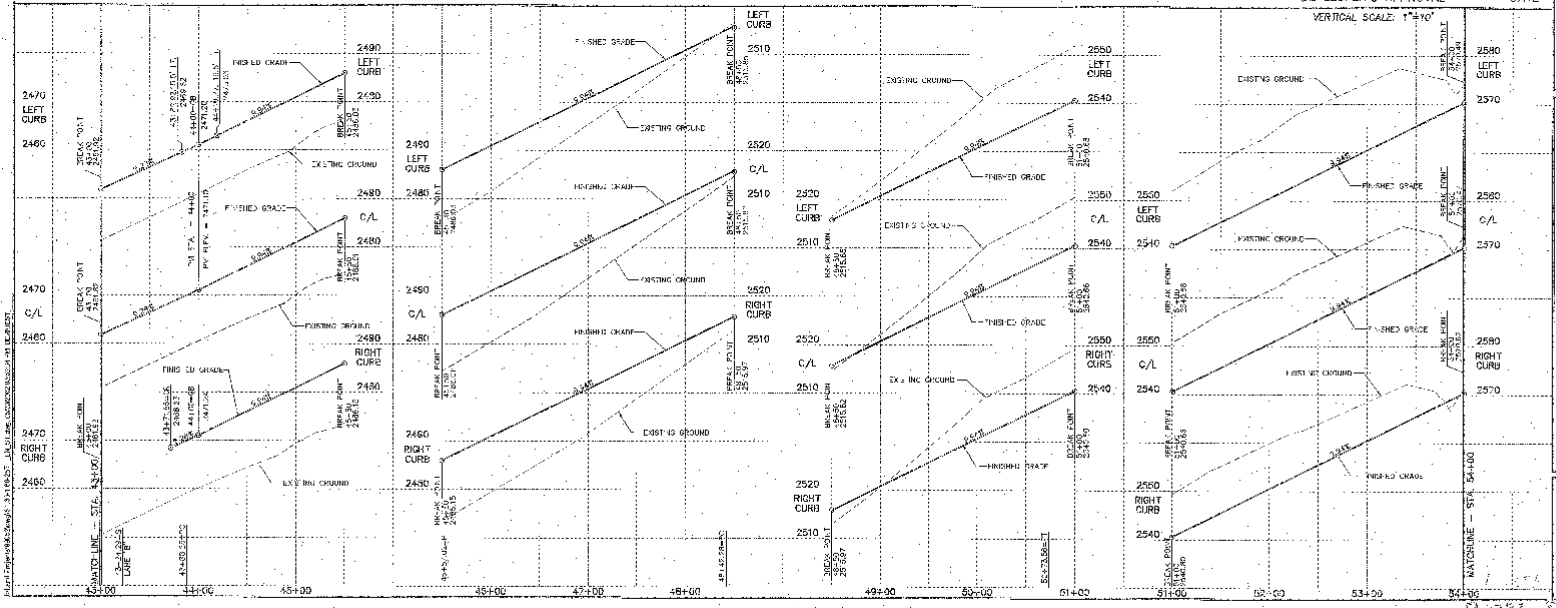
*SEE STORM DRAIN PLANS FOR RIM INFORMATION

SPOKANE COUNTY STANDARD PLANS
THE FOLLOWING SPOKANE COUNTY STANDARD PLANS ARE APPROVED FOR USE ON THIS PROJECT:
[illegible]
NOTE: ALL REFERENCED SPOKANE COUNTY STANDARD PLANS SHALL BE THE LATEST EDITION AT THE TIME OF PLAN APPROVAL.
[illegible]

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'

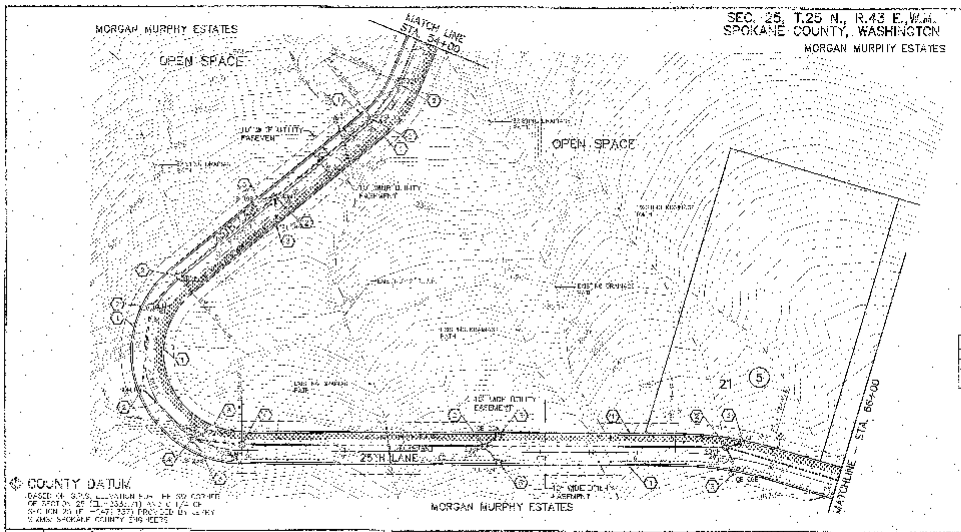


STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
RADIO LANE
STA. 43+00 TO STA. 54+00
SPOKANE COUNTY, WA

STREET PLAN
AND
PROFILE

S1.10

Sheet 2 of 2



CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-3
2. TYPE I-4B MANHOLE SITE CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN C-5 AND D-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION
3. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-1, B-12 AND B-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION
4. TYPE I-4BS MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN D-1 AND D-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION

*SEE STORM DRAIN PLANS FOR PIPE INFORMATION

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C-0	100.00	48.23	24.39	47.76	27°37'20"
C-1	100.00	246.31	275.93	153.27	140°23'14"
C-2	250.00	100.67	50.69	100.33	48°25'50"

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

SPOKANE COUNTY PARKING DISTRICT
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLAN
PROJECT NO. P-797
CIVIL ACCOUNT NO. 04-2-80
ACCEPTANCE DATE 7-8-80
PROJECT NAME: MORGAN MURPHY ESTATES
TECHNICAL DATA SHEET NO. 1
SPOKANE COUNTY PARKING DISTRICT
SPOKANE COUNTY ENGINEERS
SPOKANE COUNTY ENGINEERS

DEVELOPER'S APPROVAL DATE

PRELIMINARY UNDER THE DIRECT SUPERVISION OF JOHN TOWNE BARRIERS, PE WASHINGTON REGISTRATION NO. 36212 FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

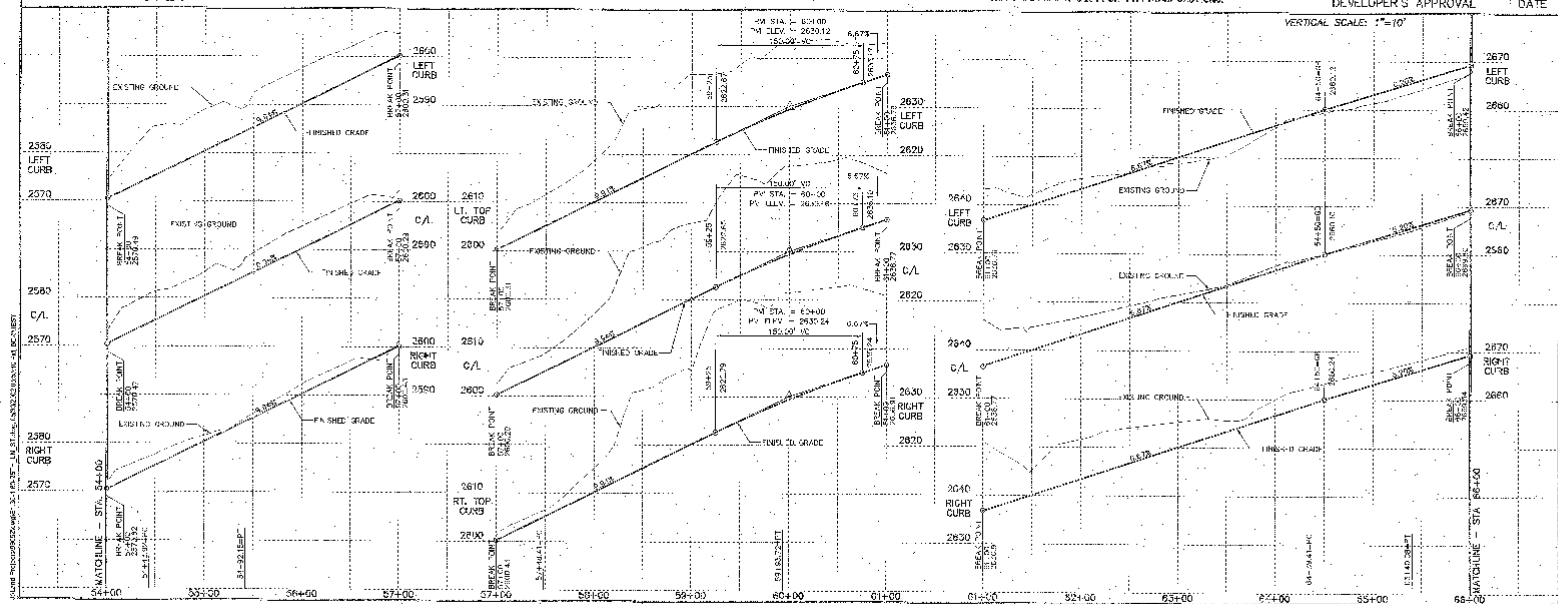
Revisions, Inc.
Planning
Engineering
Architecture
Landscape Architecture
and Surveying

SPOKANE COUNTY PARKING DISTRICT
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLAN
PROJECT NO. P-797
CIVIL ACCOUNT NO. 04-2-80
ACCEPTANCE DATE 7-8-80
PROJECT NAME: MORGAN MURPHY ESTATES
TECHNICAL DATA SHEET NO. 1
SPOKANE COUNTY PARKING DISTRICT
SPOKANE COUNTY ENGINEERS
SPOKANE COUNTY ENGINEERS

Scale Horiz.	1"=20'
Scale Vert.	0.5
Drawn By	CLC, JLR
Designed By	JTS
Checked By	JES

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
25TH LANE
STA. 54+00 TO STA. 66+00
SPOKANE COUNTY, WA

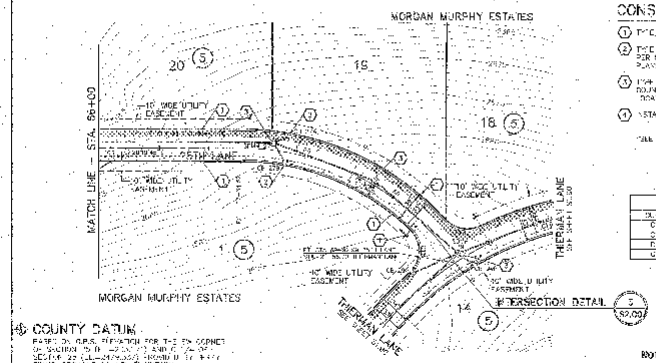
STREET PLAN
AND
PROFILE
81.50
Wash-Mon-Sun



SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)
1" = 50'



CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE "C" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10 AND B-12. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE I-48IN MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN B-1 AND B-2. SEE STORM DRAIN PLANS FOR MANHOLE LOCATION AND RIM ELEVATION INFORMATION.
4. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-6.

SEE STORM DRAIN PLANS FOR FURTHER INFORMATION.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C13	262.16	250.16	142.92	240.93	54°39'08"
C14	32.50	38.97	22.75	36.68	71°26'17"
C15	30.50	49.08	32.89	44.00	92°34'24"
C16	289.00	974.69	146.01	567.06	193°44'48"

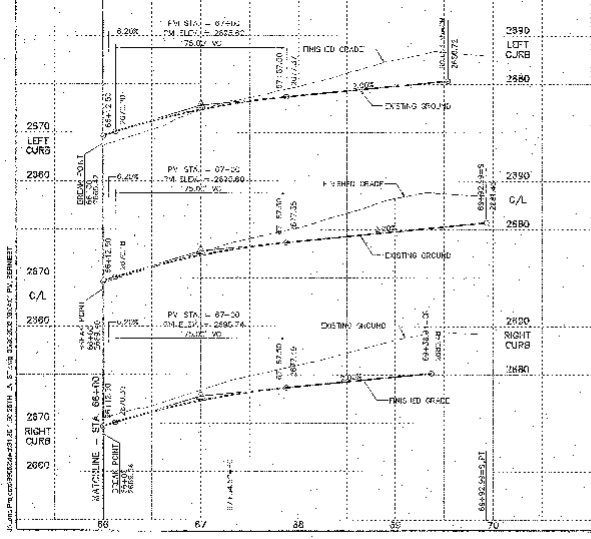
NOTE: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

COUNTY DATUM
BASED ON G.P.S. RECEIVER FOR T-25 FN CORNER
ON SECTION 25 AND 26 AND 35 AND 36
SECTION 25 (LL=47°39'20") ROUND TO 47°40'
FROM SPOKANE COUNTY BENCHES

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
SPOKANE VALLEY
25TH LANE
STA. 66+00 TO STA. 80+00
SPOKANE COUNTY, WA

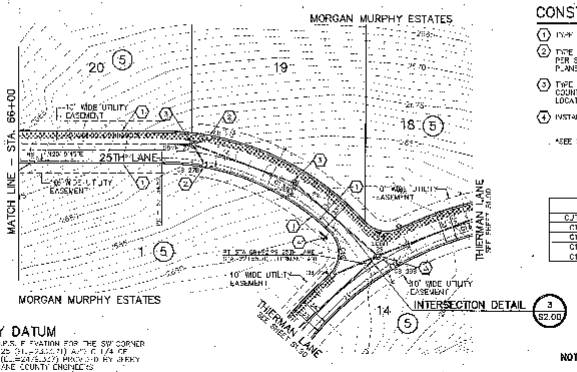
STREET PLAN AND PROFILE

S1.00

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.



CONSTRUCTION NOTES

1. INSTALL "A" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "B" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10 AND B-11. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE I-ES MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-1 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
4. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-16.

* SEE STORM DRAIN PLANS FOR PIPE INFORMATION

CURVE TABLE

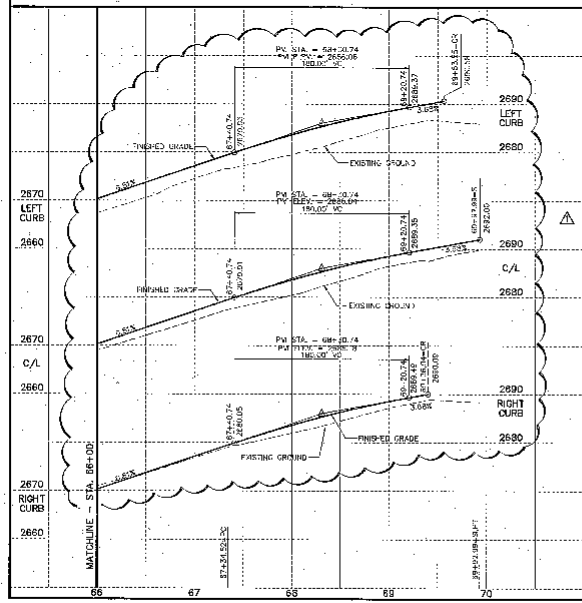
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C13	282.16	258.46	140.82	216.12	52°26'56"
C14	30.00'	38.97	22.75	36.26	74°25'17"
C15	30.00	49.09	32.69	44.20	94°34'24"
C16	329.80'	277.32	148.01	267.04	47°44'40"

COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR THE SW CORNER OF SECT 24 & 25 (ELEV=2255.71) AND E 1/4 OF SECTION 25 (ELEV=2252.27) PROVIDED BY JERRY STARR, SPOKANE COUNTY ENGINEERS

NOTE: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL — DATE 6/10/03

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PLAN DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1787
DATE ACCEPTED: 06-10-03
ACCEPTANCE EXPIRES: 06-10-05
PROJECT LANE MILES PUBLIC: 0.43
PROJECT LANE MILES PRIVATE: 1.43
PERMIT REQUIRED (509) 477-3600
NORTHWEST BANK WEST ADDENDUM

* Revised *
06/10/03

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
25TH LANE
STA. 66+00 TO STA. 69+92.98
SPOKANE COUNTY, WA

Sheet title
STREET PLAN AND PROFILE

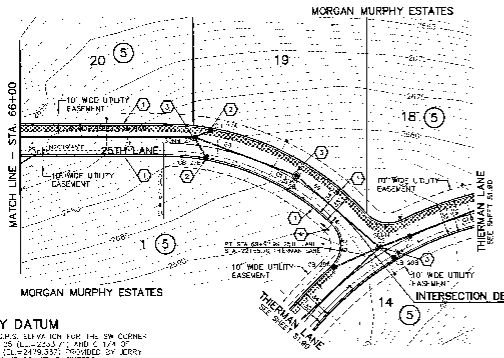
S1.60
Sheet Number

Revised P-1787

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.



CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN U-4, U-10 AND U-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE 1-ARS MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-1 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
4. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-16.

*SEE STORM DRAIN PLANS FOR PIPE INFORMATION

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C13	262.18	258.46	140.32	248.12	56°28'56"
C14	30.00	38.97	22.78	36.28	74°21'17"
C15	30.00	49.69	32.65	44.20	94°54'24"
C16	329.90	274.92	146.01	267.04	47°14'38"

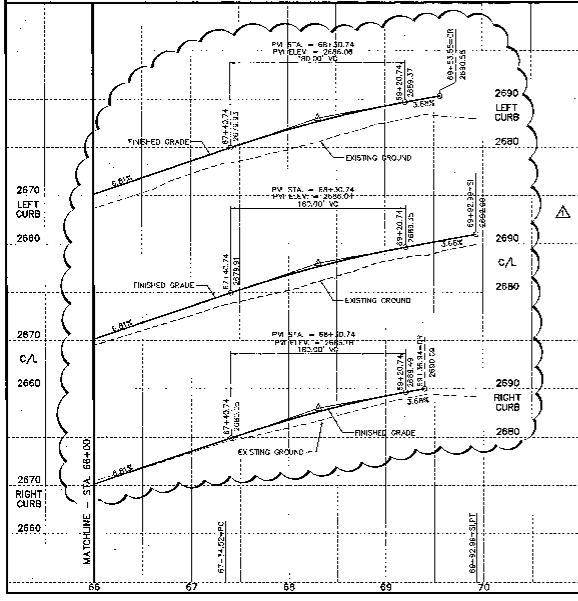
NOTE. SEE SHEET S101 FOR TYP. ROAD SECTIONS.

COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR THE SW CORNER OF SEC RUN 25 (L=2203'), AND C 1/4 OF SECTION 25 (L=2479.33') PROVIDED BY JERRY SIMMS, SPOKANE COUNTY ENGINEERS

Dave Kane
DEVELOPER'S APPROVAL

6/10/03
DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE OF OFFICIAL PLANS DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1787
DATE ACCEPTED: 06-10-03
ACCEPTANCE EXPIRES: 06-10-04
PROJECT LANE MILES IN ROAD: 0.72
PROJECT LANE MILES PRIVATE: 0.23
SPOKANE COUNTY ENGINEERS ASSUME NO RESPONSIBILITY FOR THE DESIGN SHOWN ON THIS PLAN OR ANY DEFICIENCIES THEREIN. ACCEPTANCE OF THIS PLAN IS BY CONSTRUCTION REVIEW OF THE ROADWAY AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY REGIONAL ENGINEER 48 HRS PRIOR TO PROJECT CONSTRUCTION

Revised
06/10/03

Revised P-1787

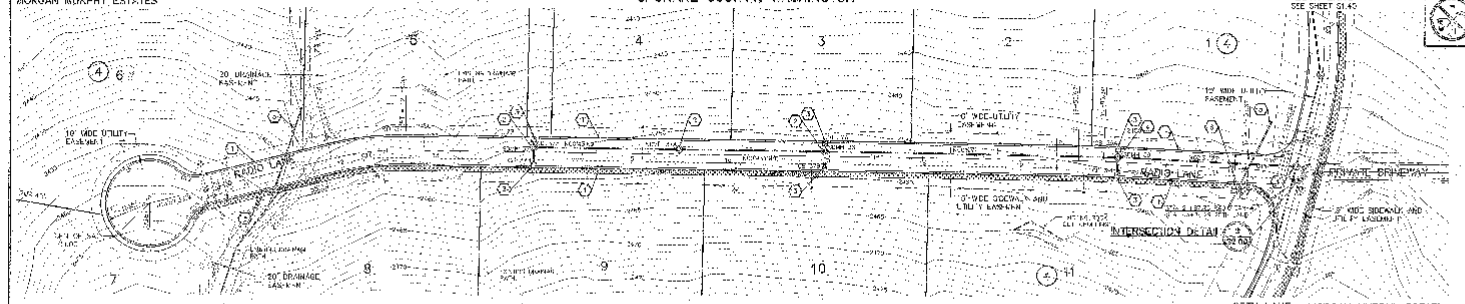
Engineer Drainage

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
25TH LANE
STA. 66+00 TO STA. 69+92.98
SPOKANE COUNTY, WA

Sheet Title:
STREET PLAN AND PROFILE

S1.60
Sheet Number

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



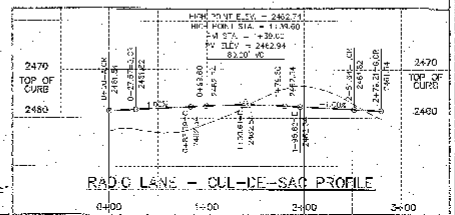
CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C3	330.00'	191.66'	98.32'	189.00'	33°16'31"
C4	200.00'	165.77'	87.77'	155.56'	38°40'46"
C10	100.00'	75.64'	39.54'	78.68'	14°40'42"
C11	150.00'	31.25'	15.66'	31.19'	1°55'08"
C12	30.00'	27.57'	14.84'	26.61'	52°39'04"
C13	30.00'	27.57'	14.84'	26.61'	52°39'04"
C14	30.00'	49.04'	34.20'	37.28'	75°03'52"
C15	30.00'	53.27'	37.20'	46.61'	101°38'58"

CONSTRUCTION NOTES

1. TYPE "D" CURB PER SPOKANE COUNTY STANDARD PLAN A-5.
2. TYPE III 48" MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-3 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE "M" CATCH BASIN WITH TYPE "1" METAL FRAME AND VAN "G" GRATE PER SPOKANE COUNTY STANDARD PLAN U-6, U-10 AND U-14. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
4. TYPE I-BSF MANHOLE 48" H CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-3 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
5. [illegible] SEE STORM DRAIN PLANS.
6. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-16.

SEE STORM DRAIN PLANS FOR PIPE INFORMATION.

GRAPHIC SCALE
(IN FEET)
1 INCH = 50 FT.



RADO LANE - CUL-DE-SAC PROFILE

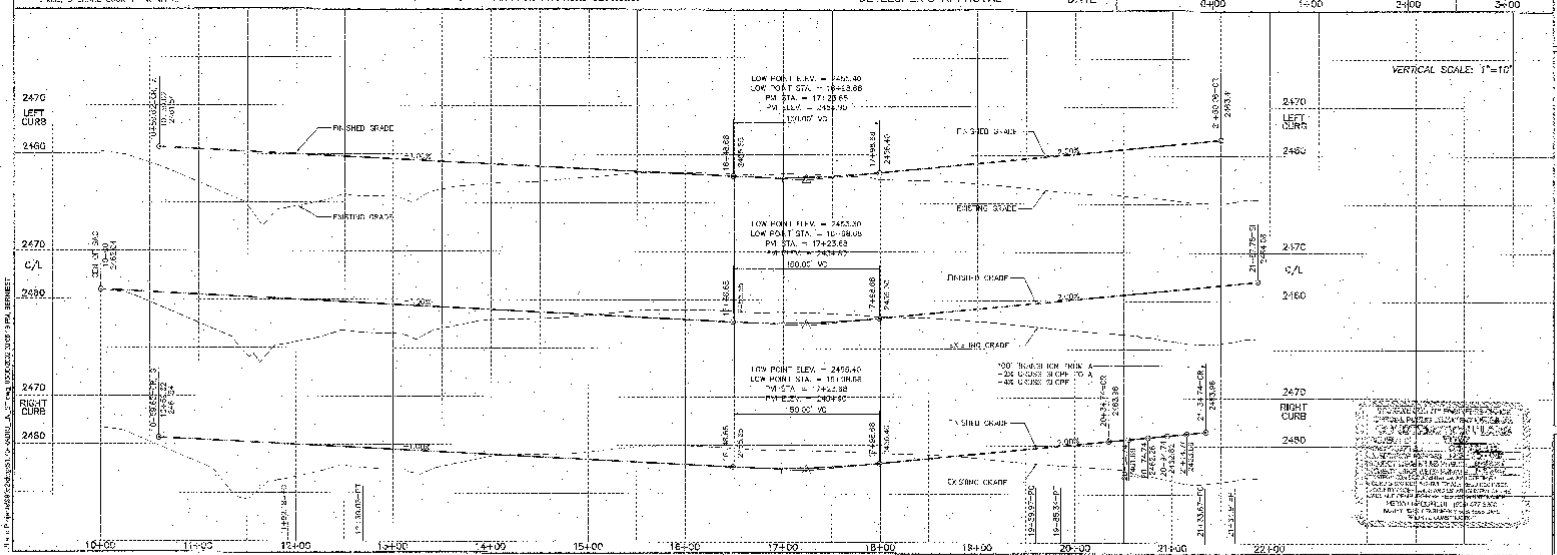
COUNTY DATUM

BASED ON U.S.G.S. ELEVATION FOR THE SE CORNER OF SECTION 25 (EL=2353.70) AS SHOWN ON THE SUCCESS QUADRANGLE PROVIDED BY JEFFERY STONE, SPOKANE COUNTY ENGINEERS.

ROW: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL

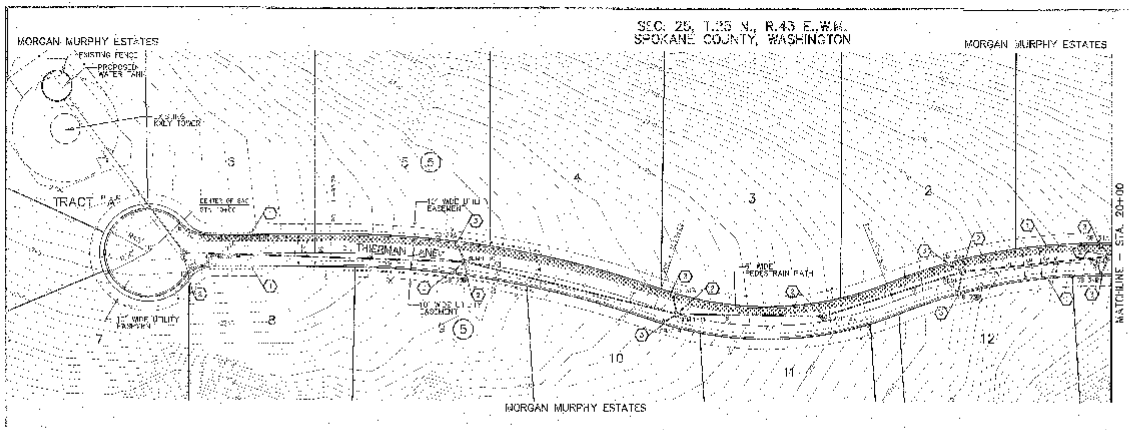
DATE



STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
RADO LANE
STA. 0+00 TO STA. 24+76.21
SPOKANE COUNTY, WA

STORMS BASIN PLAN AND PROFILE

S1.70



GRAPHIC SCALE

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 456-8000

CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE III 48" MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE DRAWINGS AND RIM ELEVATION INFORMATION.
3. TYPE "C" CATCH BASIN (CB) TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-6, M-10 AND M-14. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.

*SEE STORM DRAIN PLANS FOR RIM INFORMATION.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1000.00	332.23	167.68	330.71	19°03'04"
C2	350.00	256.13	133.93	245.21	41°00'14"
C3	575.00	242.49	123.27	240.68	24°23'00"
CR1	30.00	25.52	13.66	24.74	48°43'00"
CT	50.00	78.53	50.00	70.71	90°00'00"

COUNTY DATUM

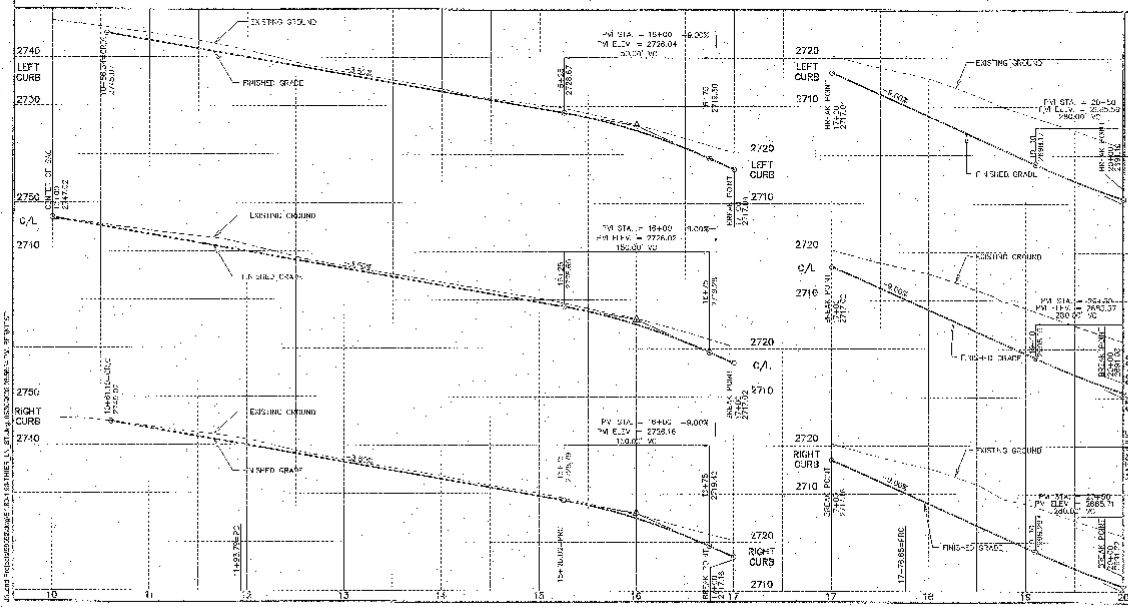
BASED ON SURVEY ESTABLISHED BY THE SPOKANE COUNTY ENGINEER. THE CENTERLINE OF THERMAN LANE, SECTION 25 (EL. = 2,752.277) AS SHOWN ON SURVEY NUMBER SPOKANE COUNTY 216-10E.

NOTE: SEE SURVEY PLAT FOR THE ROAD SECTIONS.

DEVELOPER'S APPROVAL

DATE

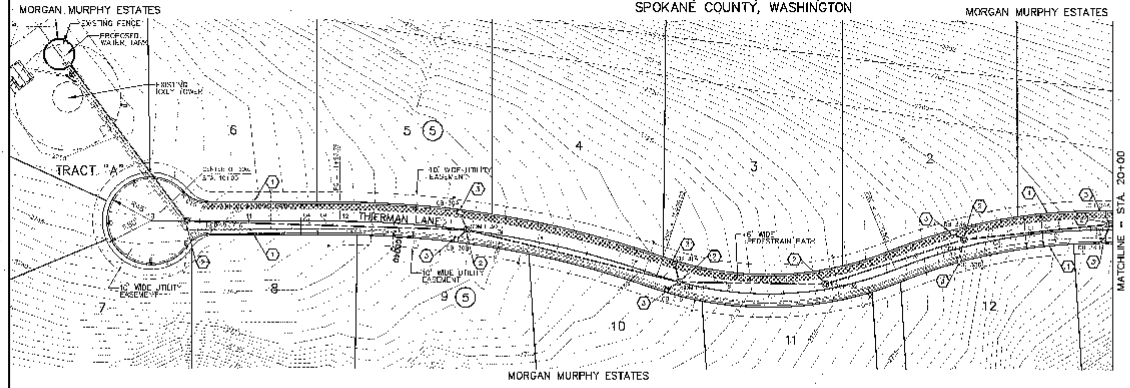
VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THERMAN LANE
STA. 10+00 TO STA. 20+50
SPOKANE COUNTY, WA

S1.00

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONSTRUCTION NOTES

1. TYPE "D" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE III-B MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN J-15 AND D-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE "I" CATCH BASIN GRIP TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10 AND B-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.

* SEE STORM DRAIN PLANS FOR PIPE INFORMATION.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1300.00	342.33	167.80	330.71	15°05'04"
C2	320.00	280.53	150.85	215.21	41°00'41"
C3	570.00	242.83	123.57	240.98	24°24'05"
C10	30.00	25.50	13.53	24.74	48°41'00"
C11	30.00	25.56	15.47	27.80	54°32'58"

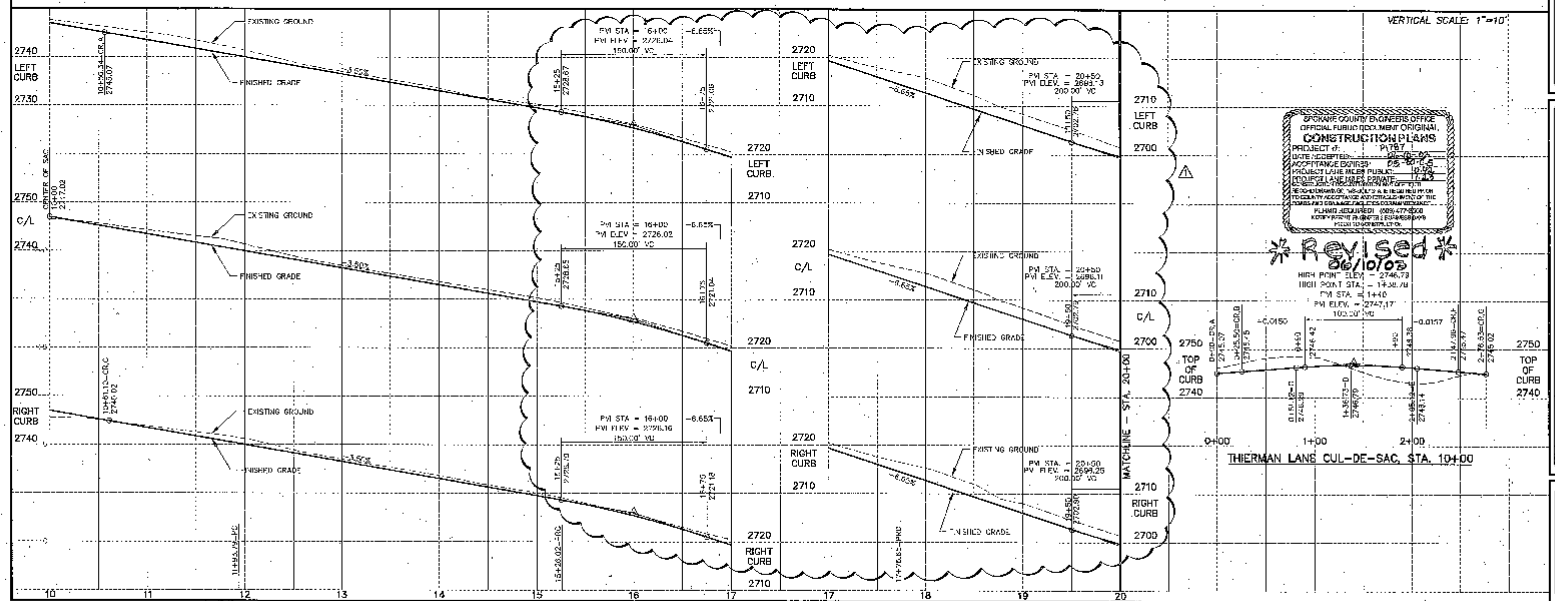
COUNTY DATUM

BASED ON GPS ELEVATION FOR RF 5W FORMER
SECTION 25 (EL=2332.70) AND 1/4 CORNER
SECTION 26 (EL=2275.37) PROVIDED BY JOHN
SOME, SPOKANE COUNTY ENGINEERS

NOTE: SEE SHEET S101 FOR TYP. ROAD SECTIONS.

Mike Hume
DEVELOPER'S APPROVAL

6/10/03
DATE



Revised P-1787 Original Drawings

Associates, Inc.
Planning
Surveying
Civil Engineers
Landscape Architecture
Land Surveyors

06/10/03

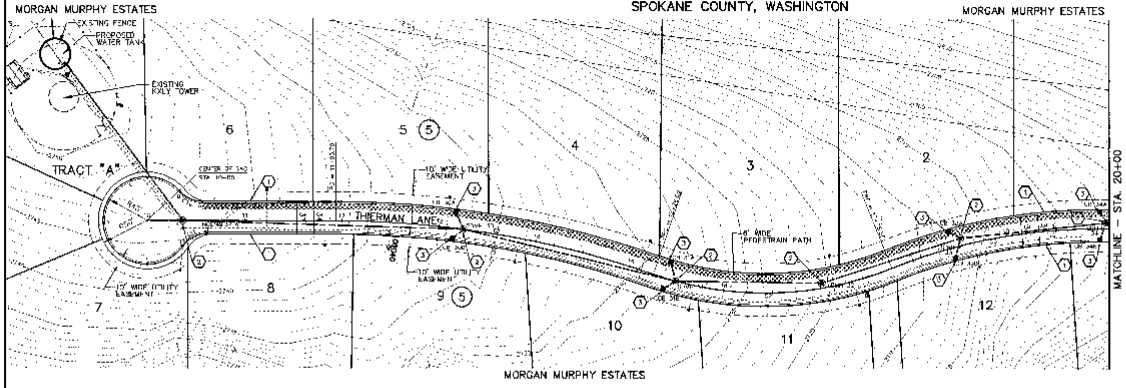
Project Number: 599352
CAD File Number:
Drawn By: DIK MFC
Designed By: JKS
Checked By: JKS

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THIERMAN LANE
STA. 10+00 TO STA. 20+00
SPOKANE COUNTY, WA

Sheet Title
STREET PLAN AND PROFILE

S1.80
Sheet Number

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS
BUFORE YOU DIG

CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE 4-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, R-10 AND R-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.

*SEE STORM DRAIN PLANS FOR PIPE INFORMATION

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	1000.00	332.23	167.66	330.71	19°02'08"
C2	350.00	250.53	130.90	245.21	41°00'44"
C3	500.00	242.89	123.32	241.06	24°24'55"
C10	30.00	25.50	13.86	24.74	48°42'00"
C11	30.00	28.56	15.47	27.50	54°32'08"

COUNTY DATUM

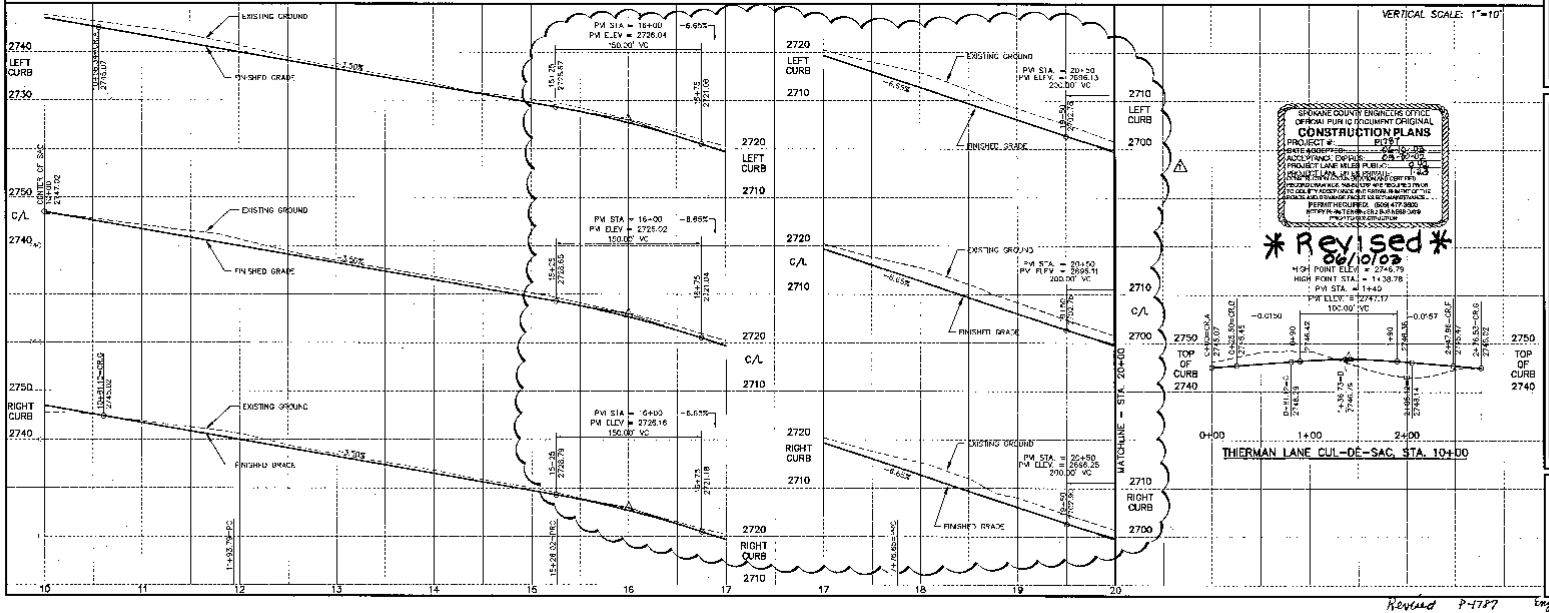
BASED ON G.P.S. ELEVATION FOR THE SW CORNER OF SECTION 25 (EL.=2333.70) AND C 1/4 OF SECTION 25 (EL.=2479.33) PROVIDED BY JERRY SIMMS, SPOKANE COUNTY ENGINEERS

NOTE: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL

6/10/03
DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: PIST
DATE ACCEPTED: 06-10-03
ACCEPTANCE EXPIRES: 06-10-03
PROJECT LANE MILES PUBLIC: 0.00
PROJECT LANE MILES PRIVATE: 1.00
PERMIT REQUIRED: (509) 477-3600
PROJECT CONSTRUCTION

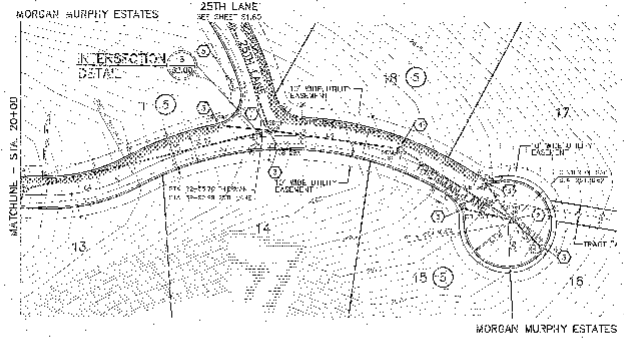
* Revised *
06/10/03

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THIERMAN LANE
STA. 10+00 TO STA. 20+00
SPOKANE COUNTY, WA

Sheet Title
STREET PLAN AND PROFILE
S1.80
Sheet Number

Revised P-1787 Eng Road Drainage

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-5.
2. TYPE 1-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE "A" CATCH BASIN WITH CAST IRON FRAME AND TYPE "B" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-6, B-10 AND B-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
4. TYPE 48S MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE MANHOLE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
5. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-16

*SEE STORM DRAIN PLANS FOR RIM INFORMATION.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C4	150.00	97.22	50.83	95.04	37°08'40"
C5	326.50	113.88	57.70	113.33	20°00'00"
C12	30.00	49.69	32.69	44.33	94°16'52"
C13	50.00	51.46	17.48	49.21	59°12'12"
C14	30.00	23.19	12.11	22.62	44°27'33"
C15	30.00	38.67	22.73	36.26	73°21'17"

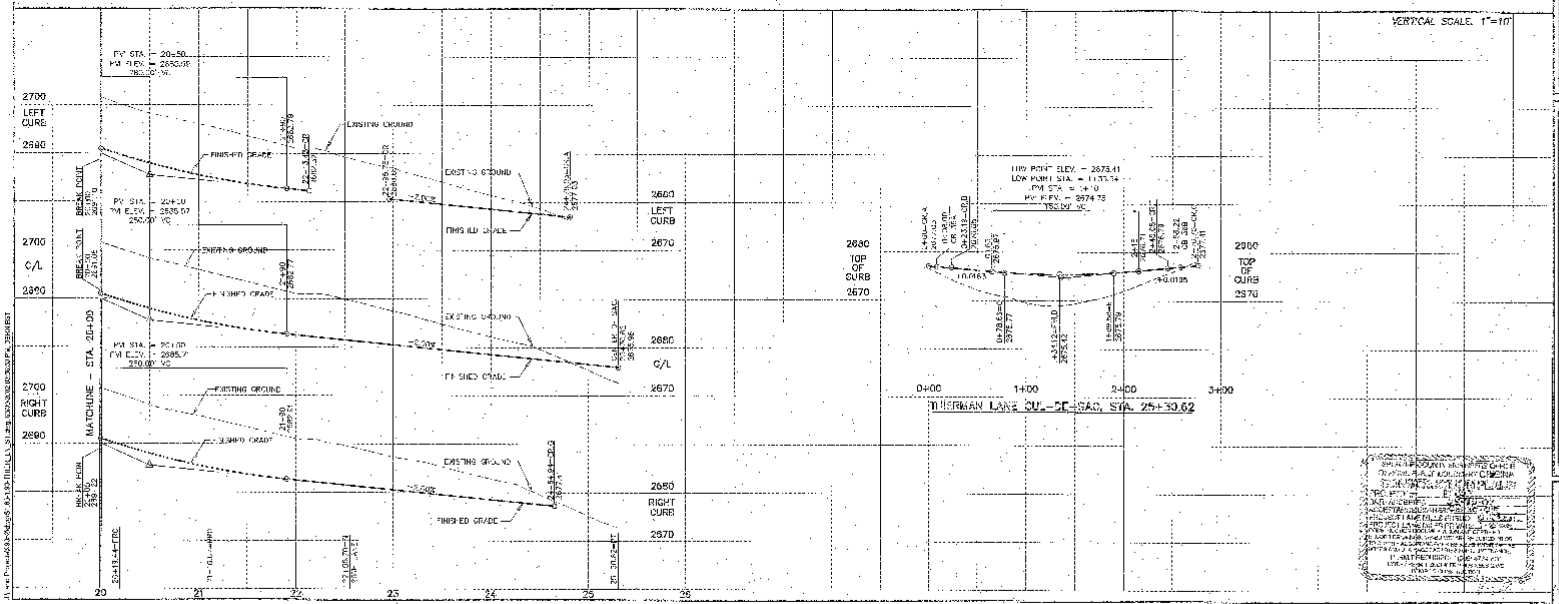
GRAPHIC SCALE
1 inch = 50 ft.

COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR [illegible]
PROVIDED BY JESSY
SPOKANE COUNTY ENGINEERS

NOTE: SEE SHEET 41.00 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL

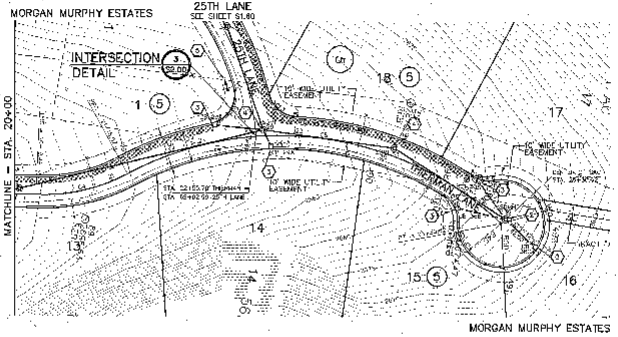
DATE



STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
SHERMAN LANE
STA. 20+00 TO STA. 25+30.62
SPOKANE COUNTY, WA

SHEET 40.00

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE "B" CURB PER SPOKANE COUNTY STANDARD PLAN A-5.
2. TYPE III-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE "1" CATCH BASIN WITH TYPE "1" METAL GRATE AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10 AND B-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
4. TYPE II-48A MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-14 AND U-14. SEE MAIN & STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
5. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-16.

*SEE STORM DRAIN PLANS FOR PIPE INFORMATION

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C4	185.00	97.22	49.83	96.04	30°06'49"
C5	339.85	413.66	239.22	387.33	71°03'37"
C12	30.00	46.03	32.68	41.70	94°34'24"
C13	30.00	31.65	17.48	30.21	60°27'17"
C14	30.00	23.10	12.21	22.62	44°11'43"
C15	30.00	38.97	22.75	36.28	74°38'17"

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

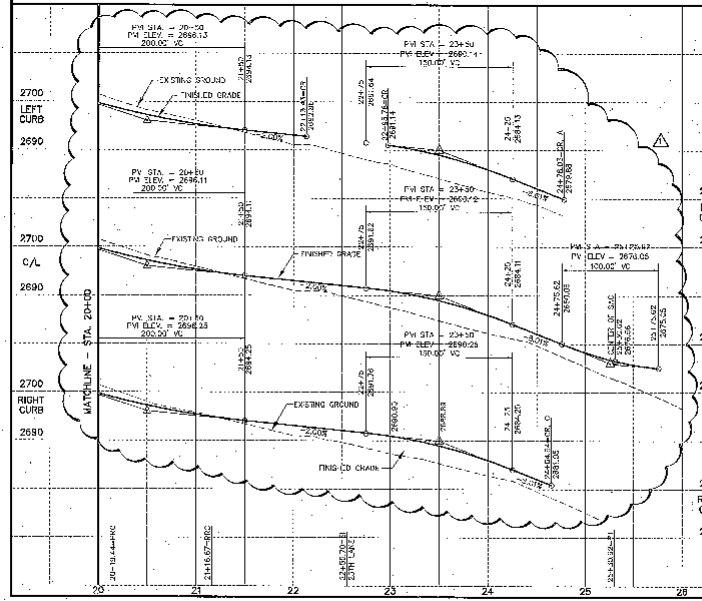
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

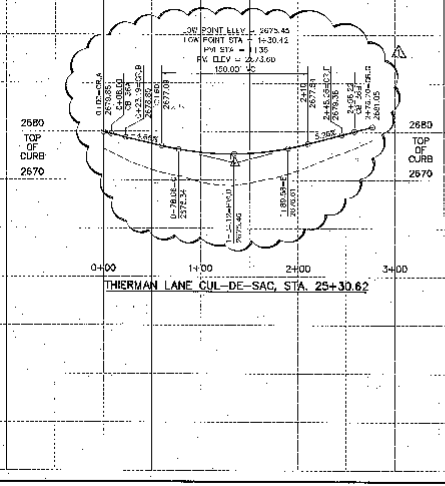
COUNTY DATUM
BASED ON CITY OF SPOKANE ELEVATION FOR THE SW CORNER OF SECTION 25 (LL-2000.7) AND C 1/4 OF SECT. 25 (EL=2479.337) IN ANNULUS OF JENNY NIMAN, SPOKANE COUNTY CO-SHEETS

NOTE: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL — DATE 6/10/03

VERTICAL SCALE: 1"=10'





COPY

SPOKANE COUNTY ENGINEERS STAMP
UNLOCK PLOTTED DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT#: 97061
DATE ACCEPTED: 06-10-03
AS-BUILT/FINAL DRAWING: 06-30-03
STREET NAME LABEL PLACED: 04-08-
STREET LIGHT LABEL PLACED: 04-
PROJECT LOW ELEVATION: 2
ACCEPTED DRAWINGS MUST BE WITHIN ONE YEAR OF THE ACCEPTANCE DATE
PERMIT REQUIRED (509) 477-3600
NOTE: PUBLIC IMPROVEMENTS MUST BE COMPLETED WITHIN TWO YEARS OF THE ACCEPTANCE DATE
PERMIT REQUIRED (509) 477-3600
NOTE: PUBLIC IMPROVEMENTS MUST BE COMPLETED WITHIN TWO YEARS OF THE ACCEPTANCE DATE

Revised
06/10/03

Revised P-1759

Engineering
Planning
Surveying
Construction Management
Water Resource Engineering
Land Surveying
Spokane, Washington 99202
Phone: 509-456-0505
Fax: 509-456-2797

EXPIRES 5/10/04

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN F. DAVIDS, P.E.
WASHINGTON REGISTRATION NO. 28212
FOR AND ON BEHALF OF
CLD ASSOCIATES, INC.

Mark	Description	Date
1	ISSUED FOR CONSTRUCTION	6/10/03

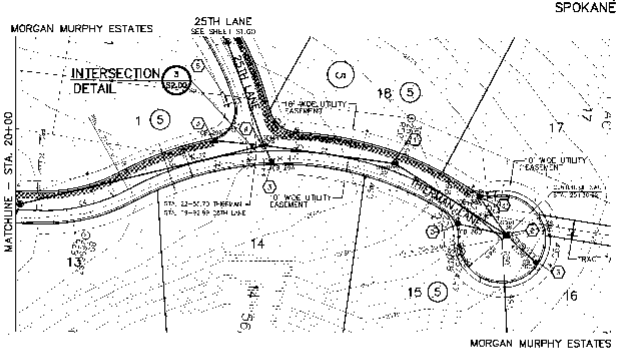
Project Number: 98062
CLD Job Number: 97061.02
Drawn By: CLD, HBF
Designed By: JFD
Checked By: JFD

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THIERMAN LANE
STA. 20+00 TO STA. 25+30.62
SPOKANE COUNTY, WA

Sheet Title
STREET PLAN AND PROFILE

S1.90
Sheet Number

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE "M" CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. TYPE II 48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-3 AND U-14. SEE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
3. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-12 AND B-13. SEE STORM DRAIN PLANS FOR CATCH BASIN LOCATIONS AND RIM ELEVATION INFORMATION.
4. TYPE I-48S MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-1 AND U-14. SEE MANHOLE STORM DRAIN PLANS FOR MANHOLE LOCATIONS AND RIM ELEVATION INFORMATION.
5. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STD PLAN A-16.

*SEE STORM DRAIN PLANS FOR PIPE INFORMATION

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C4	180.00	97.22	49.83	96.04	30°56'49"
C5	370.90	413.86	239.22	367.33	112°03'42"
C12	30.00	49.69	37.68	44.20	94°94'24"
C13	30.00	31.65	17.48	30.21	60°27'17"
C14	30.00	23.19	12.21	22.62	44°17'33"
C15	30.00	36.97	22.78	34.28	72°56'19"

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRA Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN E. SAYWORTH, P.E.
WASHINGTON REGISTRATION
NO. 30317
FOR AND ON BEHALF OF
GRA ASSOCIATES, INC

Date	Description
5/09/03	ORIGINAL PLAN REFERENCE
5/30/03	REVISE TO SHEET S1.00

Project Number: 2000-03
G.R.A. Job Number: 2000-03
Drawn By: D.R. MCK
Designed By: JES
Checked By: JES

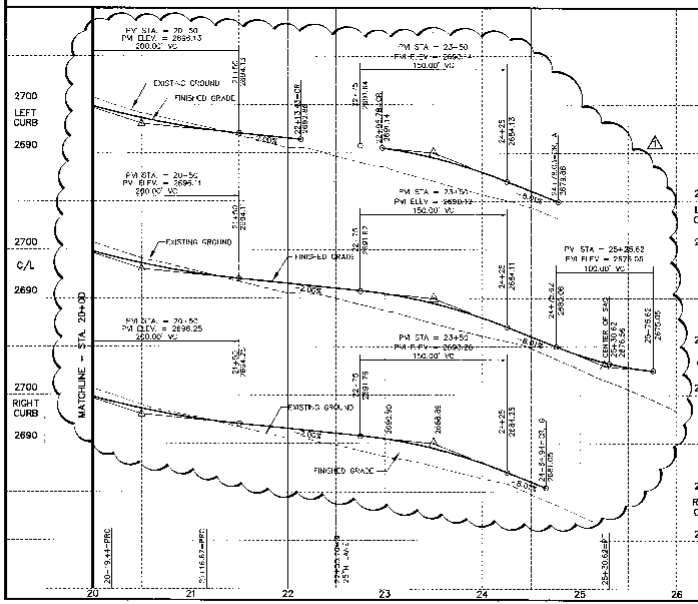
COUNTY DATUM

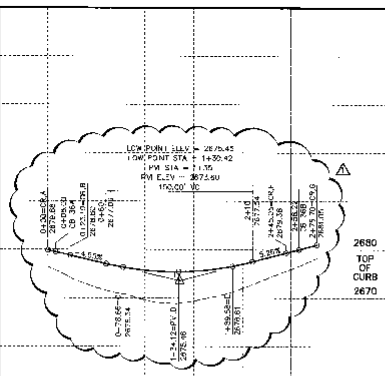
BASED ON GPS/GPS ELEVATION, FOR THE SW CORNER OF SECTION 25 T.25 N., R.43 E., W.M. SPOKANE, SPOKANE COUNTY, WASHINGTON

NOTE: SEE SHEET S1.01 FOR TYP. ROAD SECTIONS.

DEVELOPER'S APPROVAL — DATE 6/10/03

VERTICAL SCALE: 1"=10'





THIERMAN LANE CUL-DE-SAC, STA. 25+30.62

COPY

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P1787
DATE ACCEPTED: 06-10-03
ACCEPTANCE EXPIRES: 06-10-04
PROJECT LINE MILES-PUBLIC: 0.42
PROJECT LINE MILES-PRIVATE: 1.83
THIS PROJECT IS COVERED UNDER WAC CHP 173-226 RECORD DRAWINGS, AS BUILT, ARE PROVIDED AT THE DISCRETION OF THE ASSOCIATED AND REVISABLE WHEN OF THE STORM AND SANITARY FACILITIES ARE CONNECTED.
PERMIT FILE NUMBER: 2000-0470-0000
WITHIN 30 DAYS OF THE ENTITY'S SIGNATURE DATE
STORM CONSTRUCTION

Revised
06/10/03

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THIERMAN LANE
STA. 20+00 TO STA. 25+30.62
SPOKANE COUNTY, WA

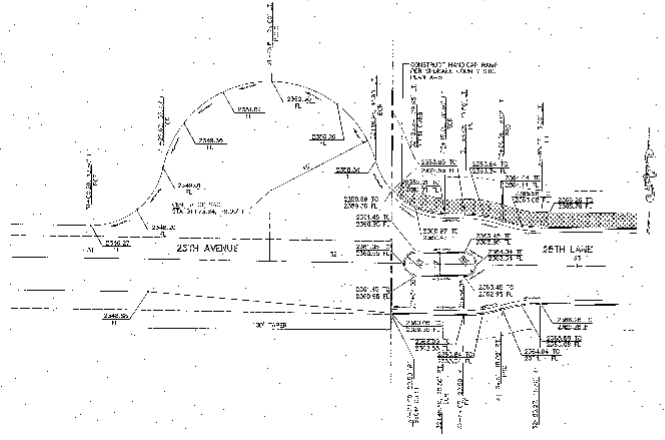
Sheet Title
STREET PLAN AND PROFILE

S1.90
Sheet Number

Revised 1-1989

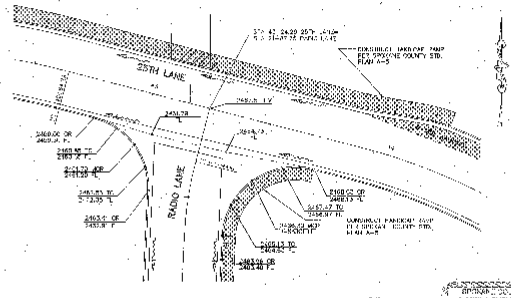
SECTION 25 T.25 N., R43 E., W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
455-8000



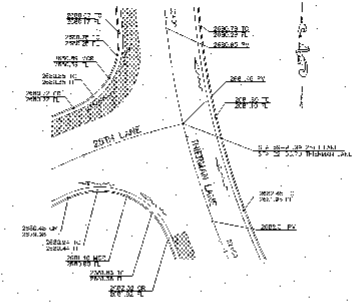
ISLAND AND INTERSECTION DETAIL
25TH LANE AND 25TH AVENUE
SCALE: 1" = 20'

1



INTERSECTION DETAIL
25TH LANE AND RADIO LANE
SCALE: 1" = 20'

2



INTERSECTION DETAIL
25TH LANE AND THERMAN LANE
SCALE: 1" = 20'

3

DEVELOPER'S APPROVAL

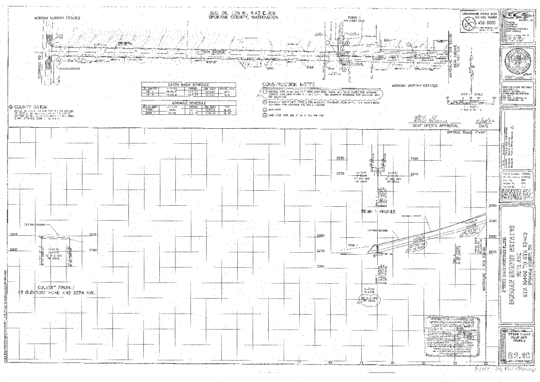
DATE

COUNTY DATUM
BASED ON GPS ELEVATION FOR THE CONTROL
IN SECTION 25 OF SECTIONS 3 AND 3 1/4 OF
SHEET 24 OF CALCULATIONS PROVIDED BY JERRY
SMITH, SPOKANE COUNTY ENGINEERS

STREET CONSTRUCTION PLANS
BORGAN MURPHY ESTATES
INTERSECTION DETAILS
SPOKANE COUNTY, WA

Plan Size
INTERSECTION
RECORDS

$2.00
Kb.mm



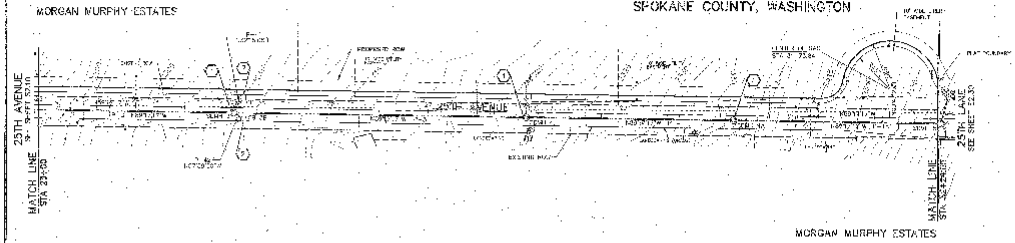
CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV	GRATE TYPE
CB 1	19+68.41	[illegible]	2273.07	N/A
CB 2	21+05.41	13.5' RT	[illegible]	N/A

MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV	TYPE
STMH	9+50	[illegible]	[illegible]	[illegible]
SDMH 2	15+00	5.0' RT	[illegible]	[illegible]

SEC. 28, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



COUNTY DATUM

MANHOLE SCHEDULE				
MH NUMBER	STATION	OFFSET	RIM ELEV	TYPE
SDMH 1	25+00	5.0' RT	2308.67	III-45
SDMH 2	28+00	5.0' RT	2312.73	III-45
SDMH 3A	30+13.50	5.0' LT	2327.76	III-48

CATCH BASIN SCHEDULE				
CB NUMBER	STATION	OFFSET	RIM ELEV	GRATE TYPE
CB 32	30+00.00	13.5' LT	2319.05	N/A
CB 30	30+00.00	13.5' RT	2306.05	N/A

UNDERGROUND SERVICE ALERT
CALL 800-553-4344
456-8000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

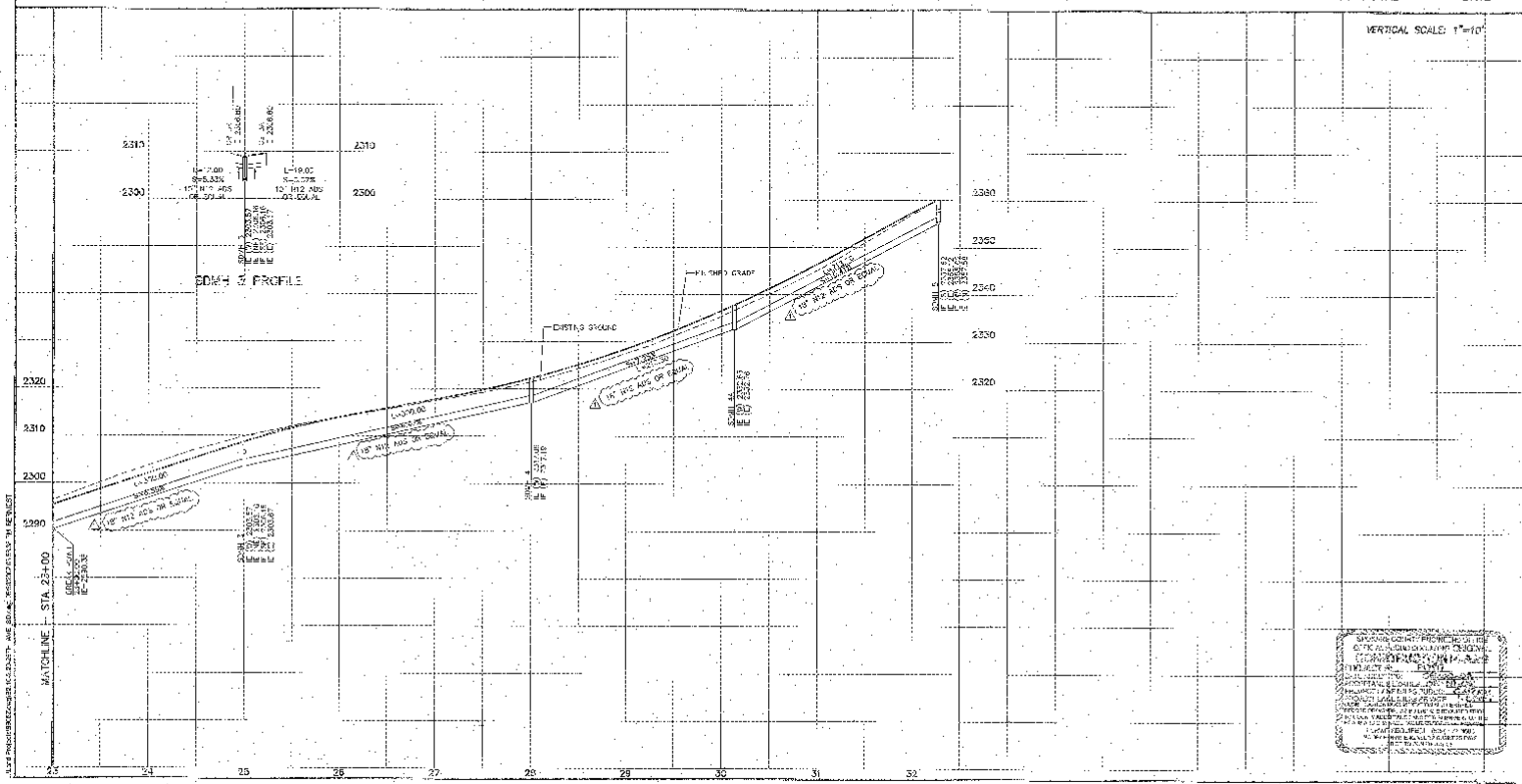
CONSTRUCTION NOTES

1. TYPE III-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLANS 1-5 AND 9-14. SEE MANHOLE SCHEDULE FOR LOCATION AND RIM ELEVATION.
2. REDO OUT THE 7 CATCH BASIN WITH METAL GRATE AND GRATE PER SPOKANE STANDARD PLAN 9-43. SEE CATCH BASIN SCHEDULE FOR LOCATION AND RIM ELEVATION.

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'



Prepared under the direct supervision of John F. Saylor, P.E. Washington Registration No. 33377. For and on behalf of Cole Associates, Inc.

Project number: 99-0000
Drawn By: JDT
Scale: 1"=10'
Reviewed By: JFS

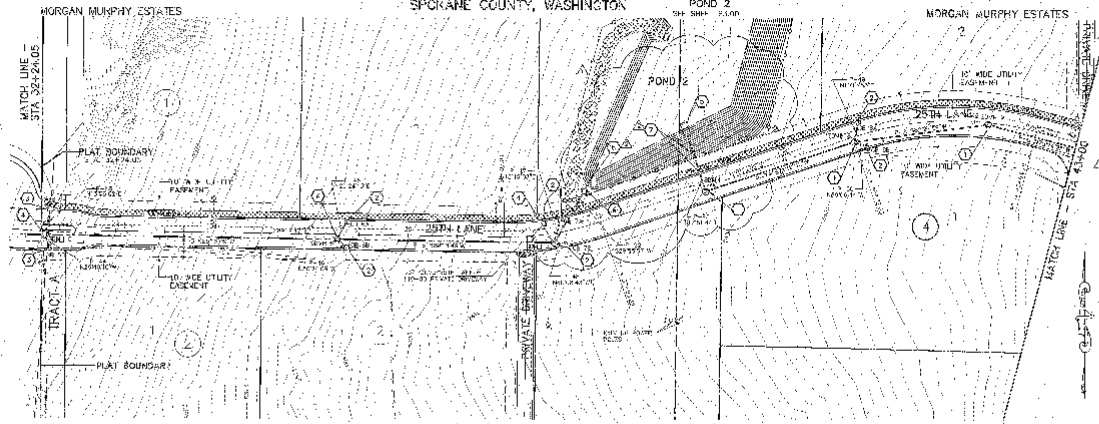
STREET SEWER PROFILE PLANS
MORGAN MURPHY ESTATES
25TH AVE
STA 22+00 TO STA 33+00
SPOKANE COUNTY, WA

SPOKANE COUNTY PRECONSTRUCTION
CONDITIONAL APPROVAL
EXPIRES
PROJECT #:
PLANS
CONDITIONAL APPROVAL DATE
CONDITIONAL APPROVAL EXPIRES
CONDITIONAL APPROVAL NOTES
PRECONSTRUCTION MEETING REQUIRED
CONTACT LAND DEVELOPMENT ENGINEERING AT 509-477-7213 TO SCHEDULE A PRECONSTRUCTION MEETING

SEWER PROFILE
PLAN SHEET
PROFILE

22.20

SEC. 25, T.28 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE II-5 MANHOLE, S-14 CAP, BROK FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U. 5 AND U. 14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "C" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "C" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN D-4, D-10 AND H-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. WEEPOUT GRATE INLET TYPE "B" PER SPOKANE COUNTY STANDARD PLAN D-4.
4. TYPE II-5 ADD-ON - WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U. 5 AND U. 14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
5. OUTLET STRUCTURE, SEE DETAIL 1 ON SHEET C3.0
6. UNDERDRAIN STRUCTURE PER DETAIL 2, ON SHEET C3.01.
7. TIPE AND BOND SHROUD AT 90° MANIFOLD, SEE DETAIL 3 ON SHEET C3.00.
8. TRASH RACK, SEE DETAIL 5 ON SHEET C3.01.

MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 5	24+27.76	0.0' LT	2340.12	II-48
SDMH 6	35+27.26	5.0' RT	2360.00	II-48
SDMH 7	37+44.61	5.42' RT	2410.13	II-48
SDMH 7A	39+77.91	5.0' LT	2410.67	I-54
SDMH 8	40+72.63	5.0' RT	2440.62	I-54
SDMH 9	42+14.26	2.91' RT	2453.00	I-54

CATCH BASIN SCHEDULE

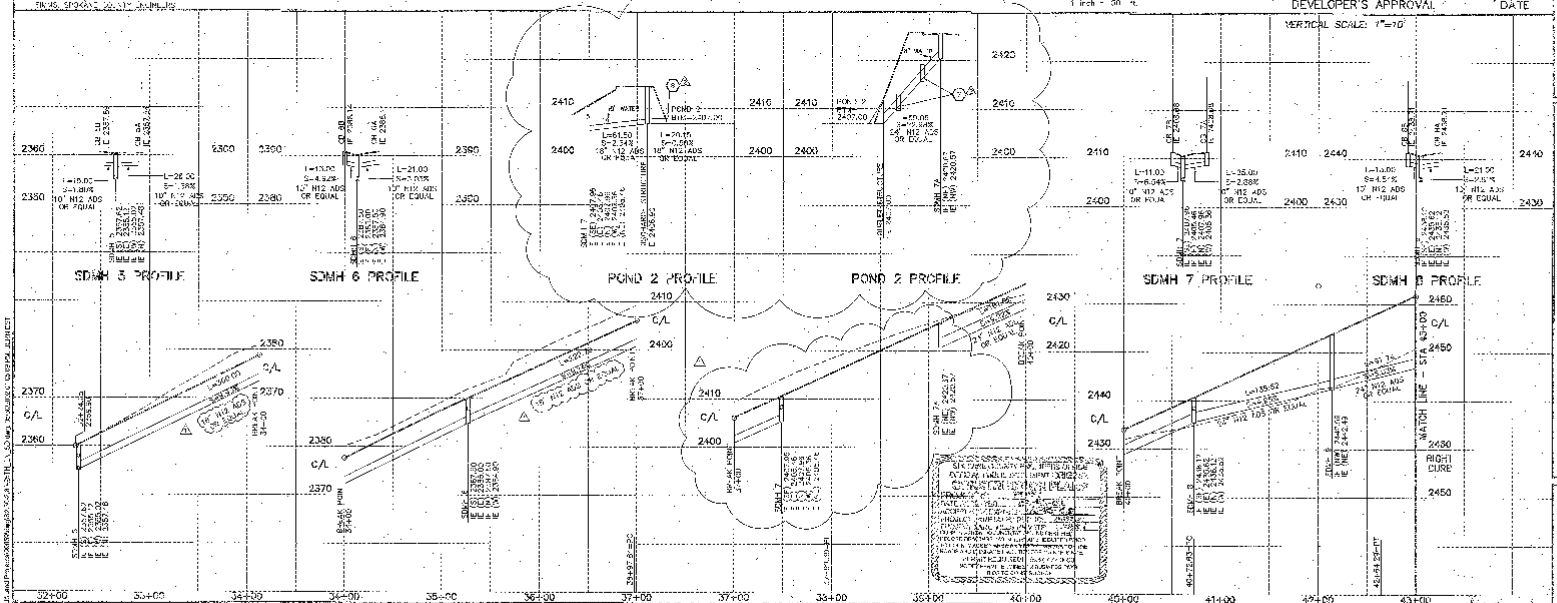
CB NUMBER	STATION	OFFSET	RIM ELEV.	GRATE TYPE
CB 5A	32+33.76	32.97' LT	2360.37	TYPE 2
CB 5B	32+33.76	20.50' RT	2360.35	TYPE 2
CB 6A	35+27.26	15.50' LT	2370.62	TYPE 2
CB 6B	35+27.26	15.50' RT	2369.64	TYPE 2
CB 7A	37+50.61	15.50' LT	2411.18	TYPE 2
CB 7B	37+50.61	15.50' RT	2411.18	TYPE 2
CB 8A	40+60.63	15.50' LT	2441.71	TYPE 2
CB 8B	40+60.63	15.50' RT	2441.71	TYPE 2

COUNTY DATUM

SCALE 1" = 30'

DEVELOPER'S APPROVAL — DATE

VERTICAL SCALE: 1"=10'



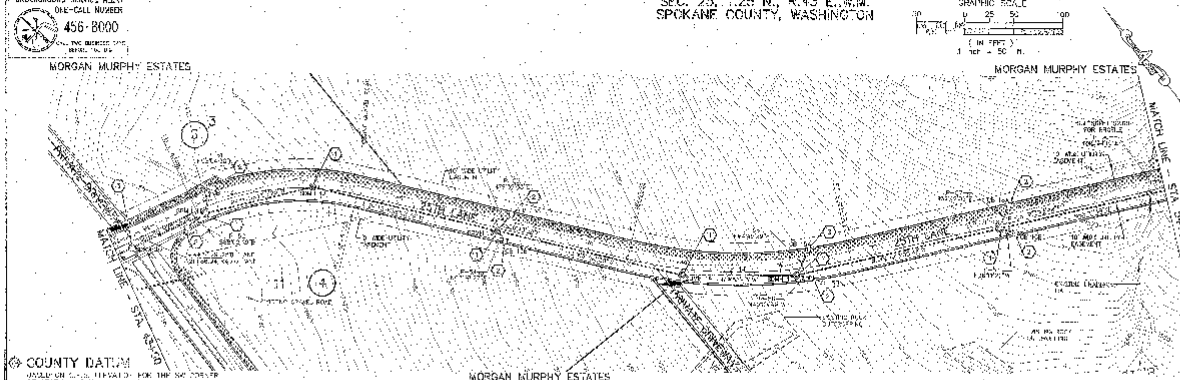
MORGAN MURPHY ESTATES
STREET CONSTRUCTION PLANS
STA 32+26.05 TO STA 43+00
SPOKANE COUNTY, WA

S250
STORM DRAIN PLAN AND PROFILE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

GRAPHIC SCALE
(IN FEET)
1 INCH = 50 FT.



CONSTRUCTION NOTES

1. TYPE III-8 NON-ROLL DIR CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN NO. 4-14 AND H 14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "A" CATCH BASIN WITH TYPE "" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN NO. 4-10 AND H 13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. TYPE III-8A NON-ROLL DIR CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN NO. 4-14 AND H 14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
4. ROCK RIP-RAP PER DETAIL 3. SEE DETAIL 3, SHEET S3.00.
5. RIP-RAP AREA SURROUNDING THE ENTRANCE TO THE PIPE CULVERT WITH 12" DIAMETER RIP RAP.

MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 10	[illegible]	8.0' [illegible]	2472.84	II-51
SDMH 11	434+55.00	5.0' RT.	24[illegible]	III-48
SDMH 12	45[illegible].40	1.50' LT.	2482.07	III-10
SDM[illegible] 13	4[illegible]+[illegible]	[illegible]	250[illegible].41	III-10
SDMH 14	454+[illegible].57	9.00' RT.	250[illegible].05	III-46
SDMH 15	46[illegible]+[illegible].87	8.37' RT.	253[illegible].7	II-48
SDMH 16	5[illegible]+70.07	3.5' RT.	2553.47	II-48

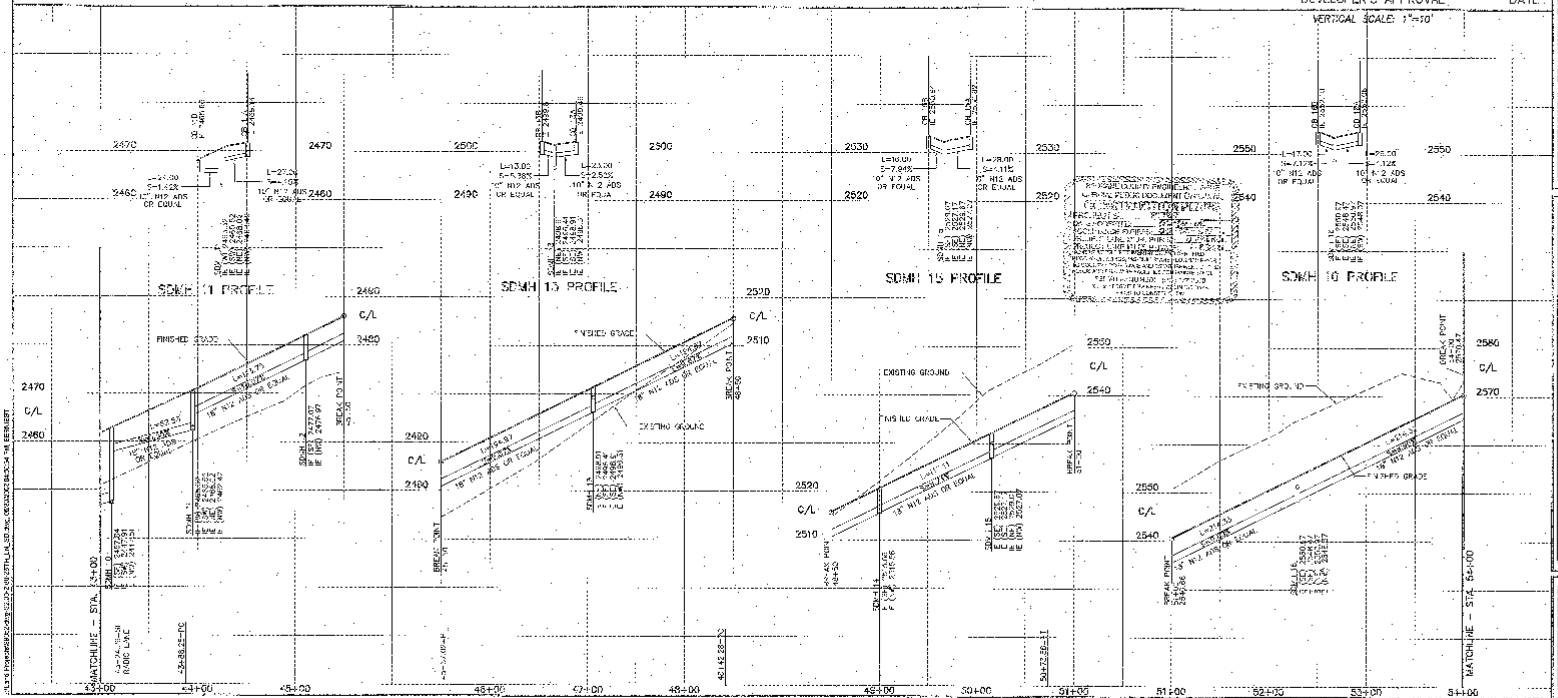
CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	GRATE TYPE
CB 11-A	44+10	15.88' LT.	2[illegible]71.64	TYPE 2
CB 11B	4[illegible]+71.85	13.57' RT.	2467.83	TYPE 2
CB 3A	47+[illegible]9.61	19.80' LT.	250[illegible].90	TYPE 2
CB 15R	47+[illegible]9.61	13.57' RT.	2502.11	TYPE 2
CB 15A	5[illegible]+[illegible].87	19.00' LT.	2533.32	TYPE 2
CB 15B	50+[illegible].57	13.57' RT.	253[illegible].44	TYPE 2
CB 16A	52+44.56	9.80' LT.	2554.56	TYPE 2
CB 16B	52+44.57	15.00' RT.	2554.65	TYPE 2

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'

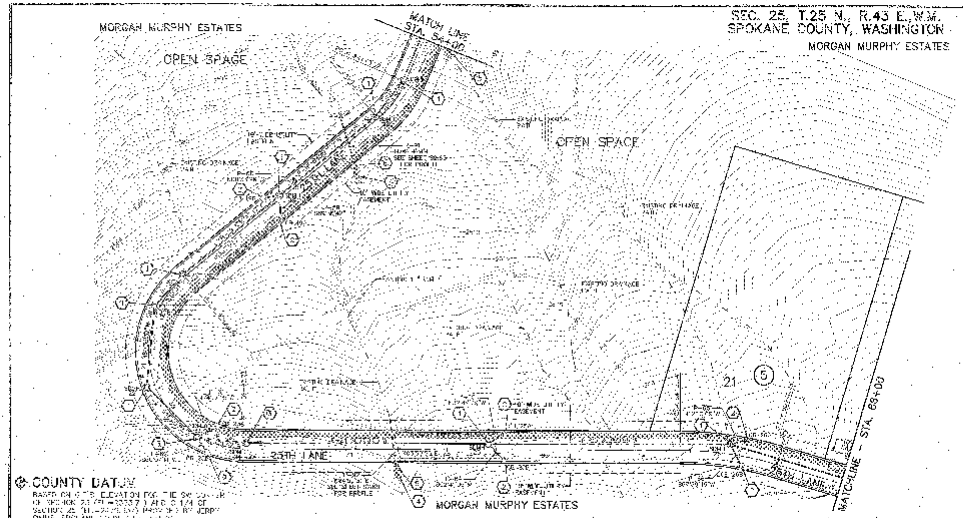


STATE COUNTY/CITY PLANS
MORGAN MURPHY ESTATES
PHASE 1
STA. 44+00 TO STA. 54+00
SPOKANE COUNTY, WA

SANITARY SEWER
PLAN AND
PROFILE

S2.40

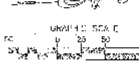
SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE I-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-15 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "C" CATCH BASIN WITH TYPE "C" METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLAN U-4, U-12 AND U-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. TYPE I-48S MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-7 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
4. ROCK RIP-RAP LINED DITCH. SEE DETAIL 8, SHEET 03.00.
5. RIP RAP SUMP AREA SURROUNDING TIE IN MANHOLE TO THE PIPE CULVERT WITH 12" DIAMETER RIP RAP.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000



CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	GRATE TYPE
CB 19A	56+35.28	18.50' LT.	2593.38	TYPE 2
CB 19B	56+35.28	13.50' RT.	2593.17	TYPE 2
CB 23A	59+66.68	13.00' LT.	2525.53	TYPE 2
CB 23B	59+66.68	13.00' RT.	2525.38	TYPE 2
CB 25A	62+67.37	18.50' LT.	2546.79	TYPE 2
CB 25B	62+67.37	18.50' RT.	2546.57	TYPE 2
CB 28A	69+06.74	18.00' LT.	2653.33	TYPE 2
CB 28B	69+06.74	13.00' RT.	2653.15	TYPE 2

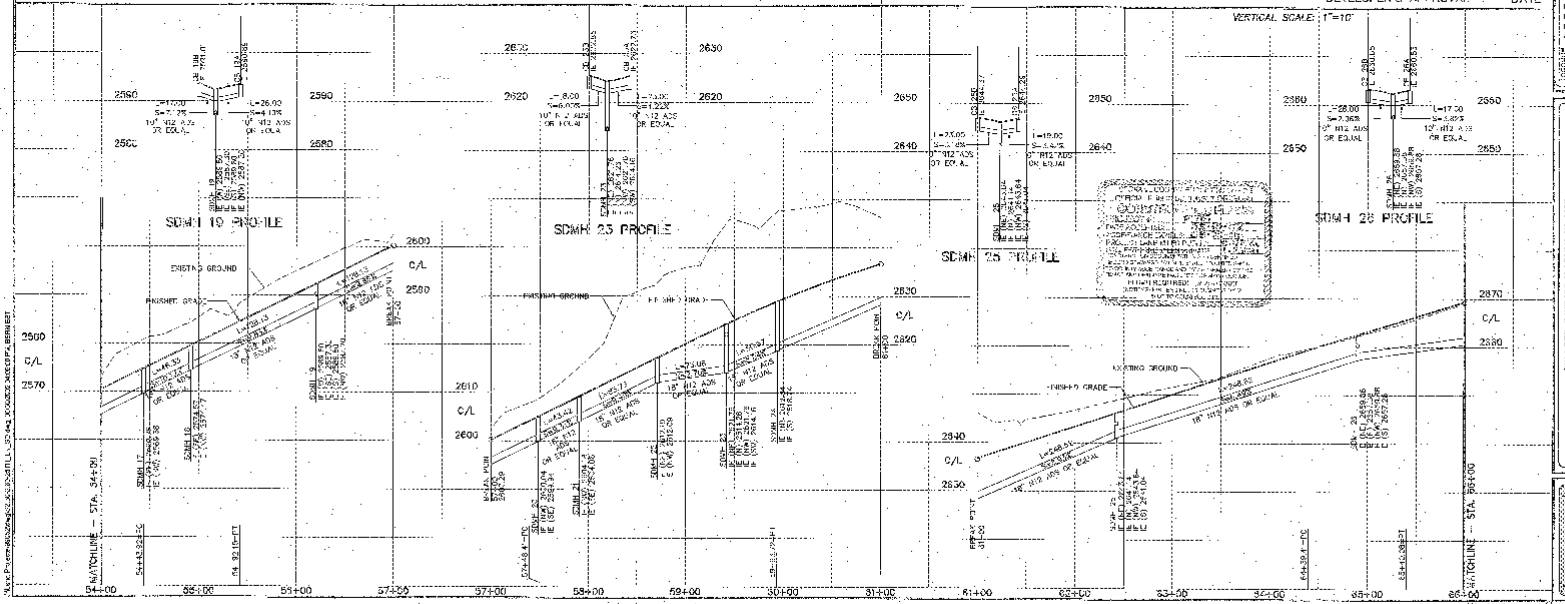
MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV.	PIPE
SDMH 17	54+43.92	3.0' RT.	2574.78	18-48
SDMH 18	54+09.12'	3.0' RT.	2578.17	18-48
SDMH 19	56+30.78	3.0' RT.	2592.10	18-48
SDMH 20	57+45.1	3.0' RT.	2606.61	18-48
SDMH 21	57+20.44	1.91' RT.	2609.17	18-48
SDMH 22	58+71.00	3.0' RT.	2617.79	18-48
SDMH 23	59+11.00	3.0' RT.	2624.28	18-48
SDMH 24	60+23.72	3.0' LT.	2638.84	18-48
SDMH 25	62+42.34	5.0' LT.	2645.14	18-48
SDMH 26	64+88.74	5.71' LT.	2662.38	18-48

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'



Planning
Engineering
Surveying
Landscape Architecture
Construction Management
Phone: (509) 924-9500
Fax: (509) 924-9548

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN D. MCCRACKEN
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON

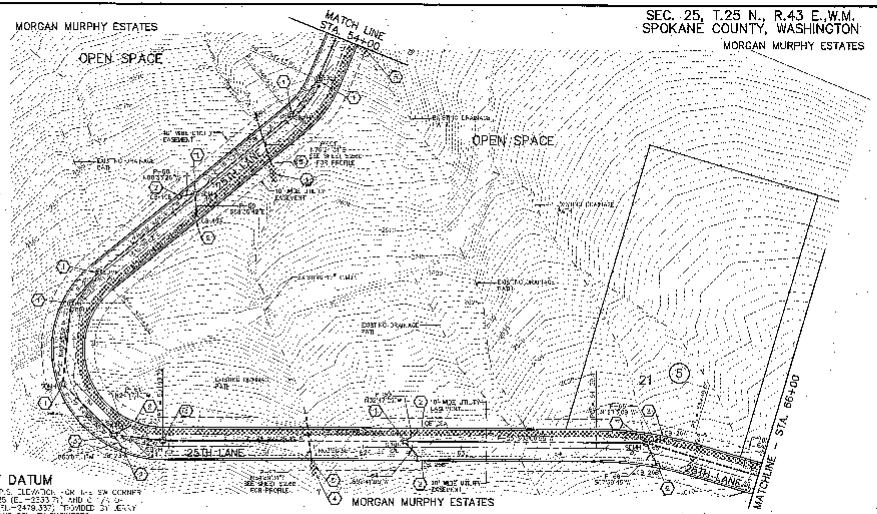
JOB NO. 1997-0-1-0
DATE 10/29/98
SCALE AS NOTED

PROJECT NUMBER 1997-0-1-0
DRAWN BY DJ
DESIGN BY MJS
CHECKED BY MJS

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
24TH LANE
STA. 54+00 TO STA. 66+00
SPOKANE COUNTY, WA

STORM DRAIN PLAN AND PROFILE

S2.50



SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

MORGAN MURPHY ESTATES

COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR I-90 SW CORNER OF SECTION 25 (E.=2333.71) AND (E.=2478.337) PROVIDED BY JERRY NAGAL SPOKANE COUNTY ENGINEERS

CONSTRUCTION NOTES

1. TYPE II-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN I-5 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "2" CATCH BASIN WITH TYPE "2" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN U-4, U-10 AND B-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. TYPE I-48S MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
4. ROCK RIP-RAP LINED DITCH. SEE DETAIL 3, SHEET S3.00.
5. MIN RIP RAP SUMP AREA SURROUNDING THE ENTRANCE TO THE PIPE CULVERT WITH 6" DIAMETER RIP RAP.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL 48 HOURS DAYS BEFORE YOU DIG

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	GRATE TYPE
CB 18A	56+35.28	15.50' LT.	2653.41	TYPE 2
CB 18B	56+35.25	13.50' RT.	2653.51	TYPE 2
CB 23A	58+56.85	15.50' LT.	2660.23	TYPE 2
CB 23B	58+56.88	13.50' RT.	2660.35	TYPE 2
CB 26A	62+57.34	15.50' LT.	2646.75	TYPE 2
CB 26B	62+57.31	13.50' RT.	2646.87	TYPE 2
CB 28A	64+04.74	15.50' LT.	2663.19	TYPE 2
CB 28B	64+04.74	13.00' RT.	2663.31	TYPE 2

MANHOLE SCHEDULE

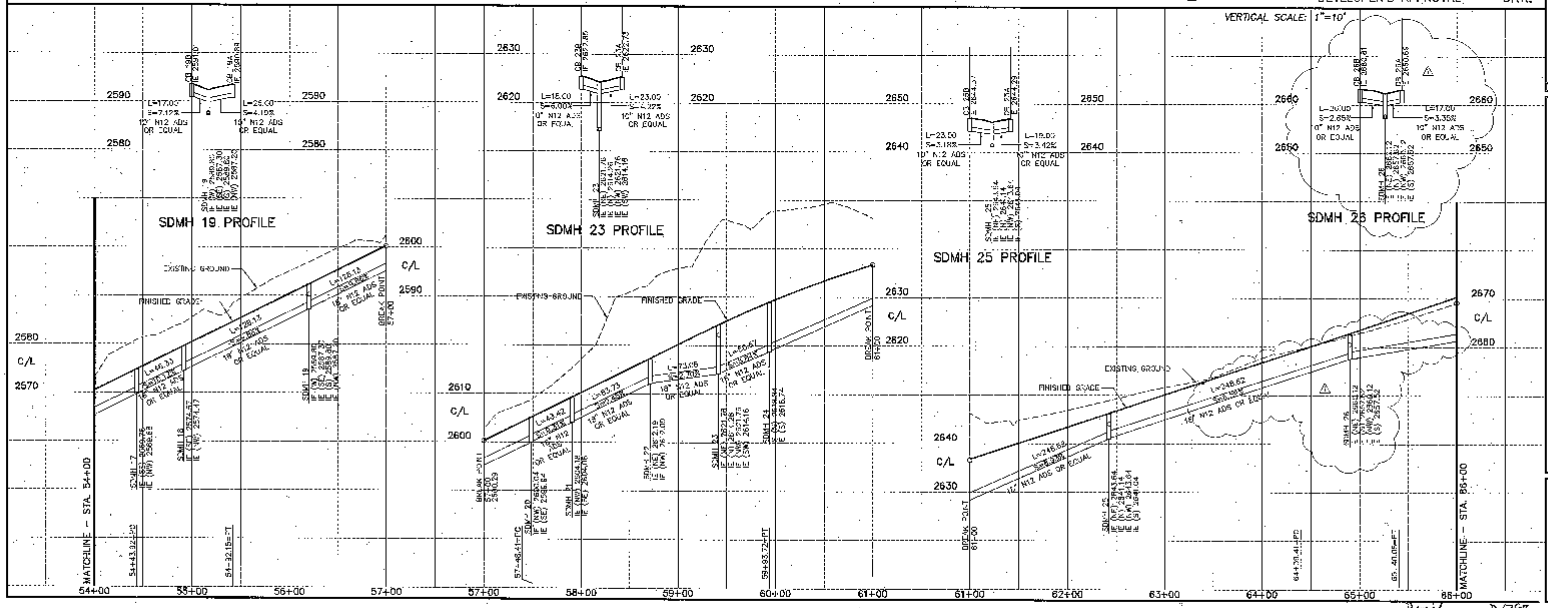
MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 17	54+43.07	3.0' RT.	2574.75	II-48
SDMH 18	55+93.15	3.0' RT.	2579.57	II-48
SDMH 19	56+20.26	3.5' RT.	2582.30	II-48
SDMH 20	57+48.41	3.0' RT.	2605.04	II-48
SDMH 21	57+90.44	4.9' RT.	2606.18	II-48
SDMH 22	58+77.27	5.0' RT.	2617.19	II-48
SDMH 23	59+41.58	1.6' RT.	2634.26	I-48S
SDMH 24	60+93.72	0.0' LT.	2628.84	I-48S
SDMH 25	62+72.34	6.0' LT.	2643.1	II-48
SDMH 26	64+05.74	0.71' LT.	2662.62	II-48

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 21757
DATE ACCEPTED: 06-16-05
ACCEPTANCE NUMBER: 05-37-05
PROJECT LANE MILES PUBLIC: 0.45
PROJECT LANE MILES PRIVATE: 1.63
THIS DOCUMENT WAS CREATED AND ACCEPTED FOR PROCESSING. NOTHING HEREIN ALTERS OR MODIFIES TO COUNTY ACCEPTANCE OF ANY RIGHTS OF WAY OR EASEMENTS. PERMIT REQUIRED DCM 477-5600
NOTE: ALL PAGES MUST BE STAMPED BY SCE PRIOR TO DOING WORK ON

Revised

DEVELOPER'S APPROVAL

6/16/05
DATE



Revised P.1787 Eng Roots Drawing

Engineering Consulting Architecture Technical Services and Surveying
Ascendant, Inc.

PREPARED UNDER THE DIRECT SUPERVISION OF CHRIS FRANK DAVIS III, WA WASHINGTON REGISTRATION NO. 29213 FOR AND ON BEHALF OF ALT ASSOCIATES, INC.

DWN: Tom Nichols
REVISION: PRELIM. PLAN REVISION
DESIGN: SECTION SUBMITTAL
DATE: 03/31/05

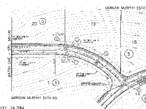
Project Number: 5993052
Drawn By: CIK NFK
Designed By: JS
Checked By: FS

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
25TH LANE
STA. 54+00 TO STA. 66+00
SPOKANE COUNTY, WA

Sheet Title
STORM DRAIN PLAN AND PROFILE

S2.50
Sheet Number

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE "1" CATCH BASIN WITH TYPE "?" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-?, B-10 AND B-?. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
2. TYPE 1 48" MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-? AND U-?. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
3. [illegible] CULVERT WITH [illegible]

CATCH BASIN SCHEDULE				
CB NUMBER	STATION	OFFSET	RIM ELEV.	STRUC. TYPE
CB 27A	[illegible]	[illegible]	[illegible]	TYPE 2
CB 27B	67+59.38	20.50' RT.	2676.08	TYPE 2

MANHOLE SCHEDULE				
MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 27	[illegible]	[illegible]	[illegible]	[illegible]
SDMH 28	[illegible]	[illegible]	[illegible]	[illegible]
SDMH 29	[illegible]	[illegible]	[illegible]	[illegible]

GRAPHIC SCALE

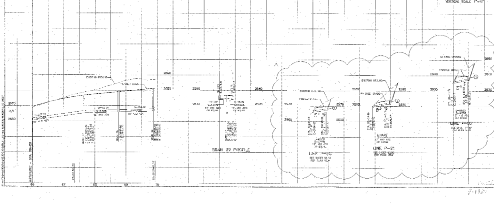
(IN FEET)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

COUNTY DATUM

DEVELOPER'S APPROVAL

DATE



VERTICAL SCALE: 1"=10'

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
STA. [illegible] TO STA. [illegible]
SPOKANE COUNTY, WA

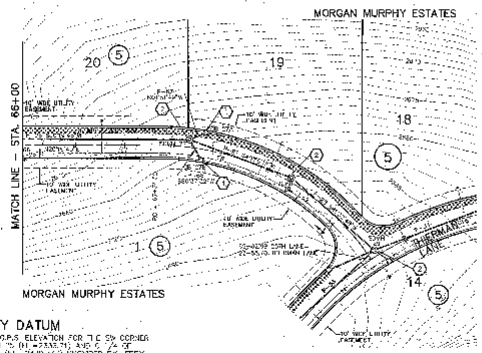
STORM DRAIN
PLAN AND
PROFILE

32.00

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.



COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR THE SW CORNER OF SECTION 25 (N.=233.74) AND C. 1/4 OF SECTION 25 (N.=244.07) PROVIDED BY JERRY SIMMS, SPOKANE COUNTY ENGINEERS

CONSTRUCTION NOTES

1. TYPE "V" CATCH BASIN WITH TYPE "V" METAL FRAME AND TYPE "V" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-6, B-10 AND B-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
2. TYPE I-455 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN 11 AND 11-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
3. RIP RAP SUMP AREA SURROUNDING THE ENTRANCE TO THE PIPE CULVERT WITH 6" DIAMETER RIP RAP.

CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	GRATE TYPE
CB 27A	67+80.35	22.97' LT.	2681.82	TYPE 2
CB 27B	67+80.38	20.52' RT.	2681.94	TYPE 2

MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 27	67+65.06	7.67' RT.	2681.38	I-455
SDMH 28	65+75.95	4.20' RT.	2687.44	I-455
SDMH 29	65+87.05	8.07' LT.	2681.85	I-455

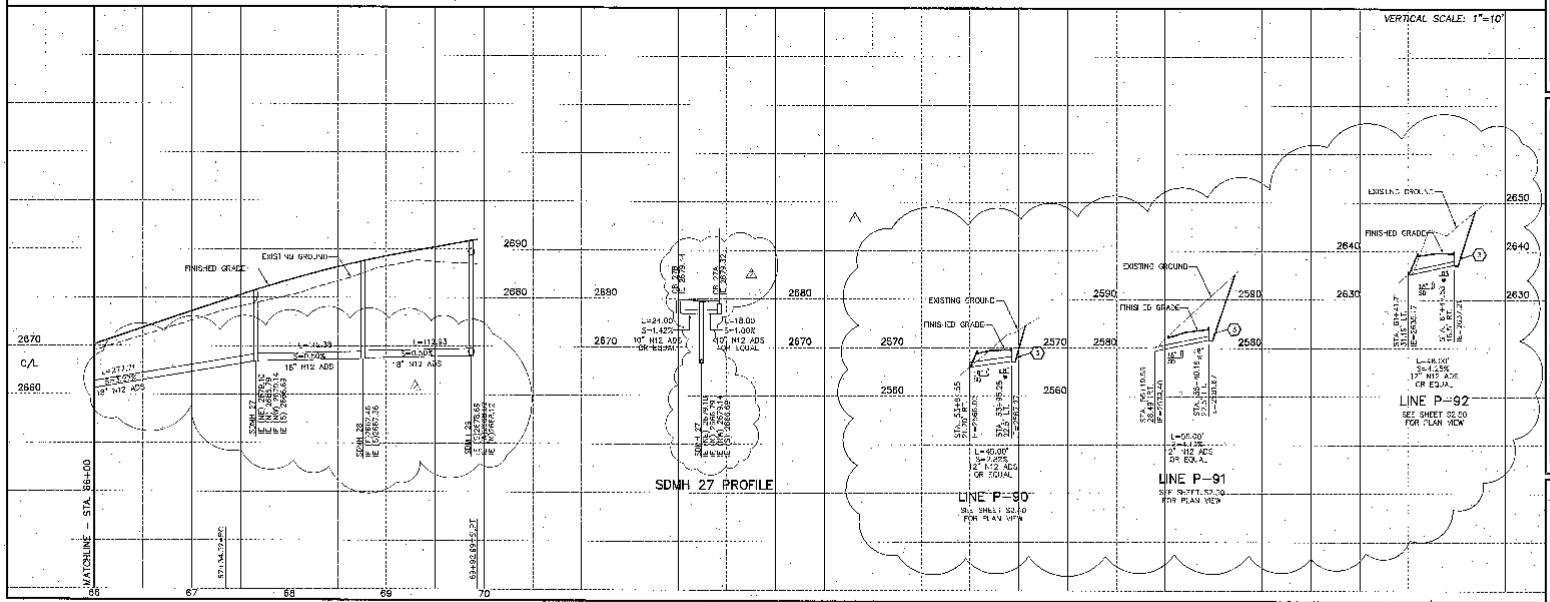
SPOKANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: E197
DATE ACCEPTED: 02-16-03
ACCEPTANCE EXPIRES: 02-16-04
PROJECT LANE MILES PUBLIC: 0.34
PROJECT LANE MILES PRIVATE: 0.32
RECORD DRAWINGS REQUIRED WITHIN 60 DAYS OF COMPLETION OF THE PROJECT AND SHALL BE THE PROPERTY OF THE SPOKANE COUNTY ENGINEERS AND BEARING THE LINES FOR WARRANTY
PERMIT REQUIRED (509) 477-3600
NORTH FOOTE PARKER DR. & MEADOWLARK
PRIOR TO CONSTRUCTION

* Revised *

DEVELOPER'S APPROVAL

6/10/03
DATE

VERTICAL SCALE: 1"=10'



Revised P-1787 Eng Roads Drainage

Harmsen, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

EXPIRES 6/30/03

PREPARED UNDER THE DIRECT SUPERVISION OF
JOHN FRANK SCHWERTNER, PE
WASHINGTON REGISTRATION
NO. 18777
FOR AND ON BEHALF OF
CLO ASSOCIATES, INC

NO/REV/DATE	DESCRIPTION
01/10/03	ORIGINAL PLAN PER WRA
02/20/03	SECOND SUBMITTAL
03/26/03	SECOND REVISION
06/10/03	REVISIONS

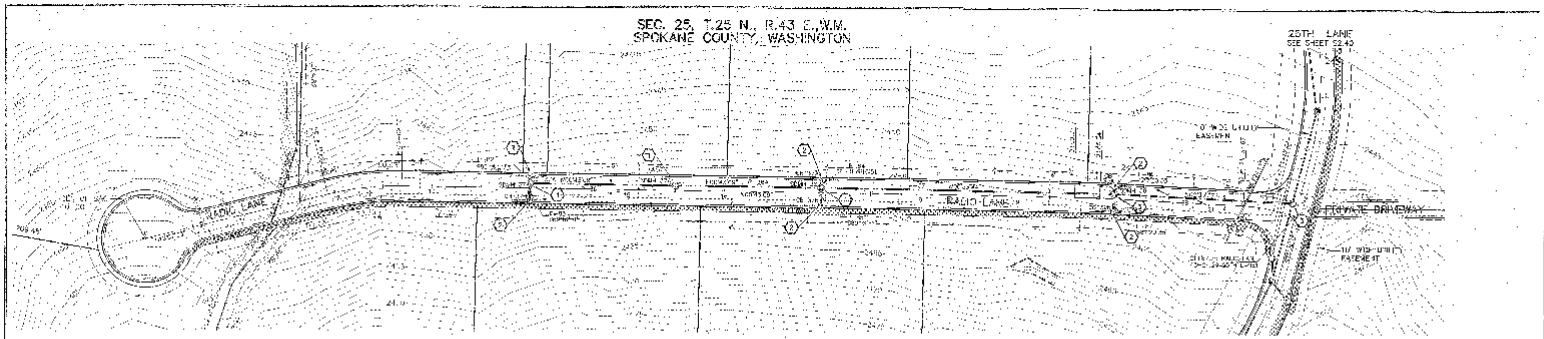
Project Number: 3990002
Drawn By: CJK, WBK
Designed By: [illegible]
Checked By: [illegible]

STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
25TH LANE
STA. 66+00 TO STA. 69+92.98
SPOKANE COUNTY, WA

Sheet Title
STORM DRAIN PLAN AND PROFILE

S2.60
Sheet Number

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



CATCH BASIN SCHEDULE				
CB NUMBER	STATION	OFFSET	RIM ELEV.	GRATE TYPE
CB 37A	14+20.00	10.50' LT.	2456.68	TYPE 2
CB 37B	14+20.00	15.50' RT.	2457.68	TYPE 2
CB 38A	16+98.65	10.50' LT.	2454.91	TYPE 2
CB 38B	16+98.65	10.50' RT.	2454.91	TYPE 2
CB 39A	20+00.00	10.50' LT.	2459.94	TYPE 2
CB 39B	20+00.00	10.50' RT.	2459.94	TYPE 2

MANHOLE SCHEDULE				
MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 37	14+00.00	8.00' LT.	2457.64	I-48
SDMH 38	16+98.65	8.00' LT.	2455.00	I-48
SDMH 39	20+00.00	8.00' LT.	2460.22	I-48
SDMH 40	21+66.64	8.00' LT.	2462.64	I-48
SDMH 37A	14+50.00	8.00' LT.	2458.44	I-48

CONSTRUCTION NOTES

1. TYPE III-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLATE U-3 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "1" CATCH BASIN WITH "1" MODIFIED FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLATE U-8 AND U-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. TYPE I-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLATE U-1 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.

4. COUNTY DATUM
BASED ON THE ELEVATION FOR THE SW CORNER OF SECTION 25, T.25 N., R.43 E.W.M. AS FOUND ON THE SPOKANE COUNTY BENCHMARK

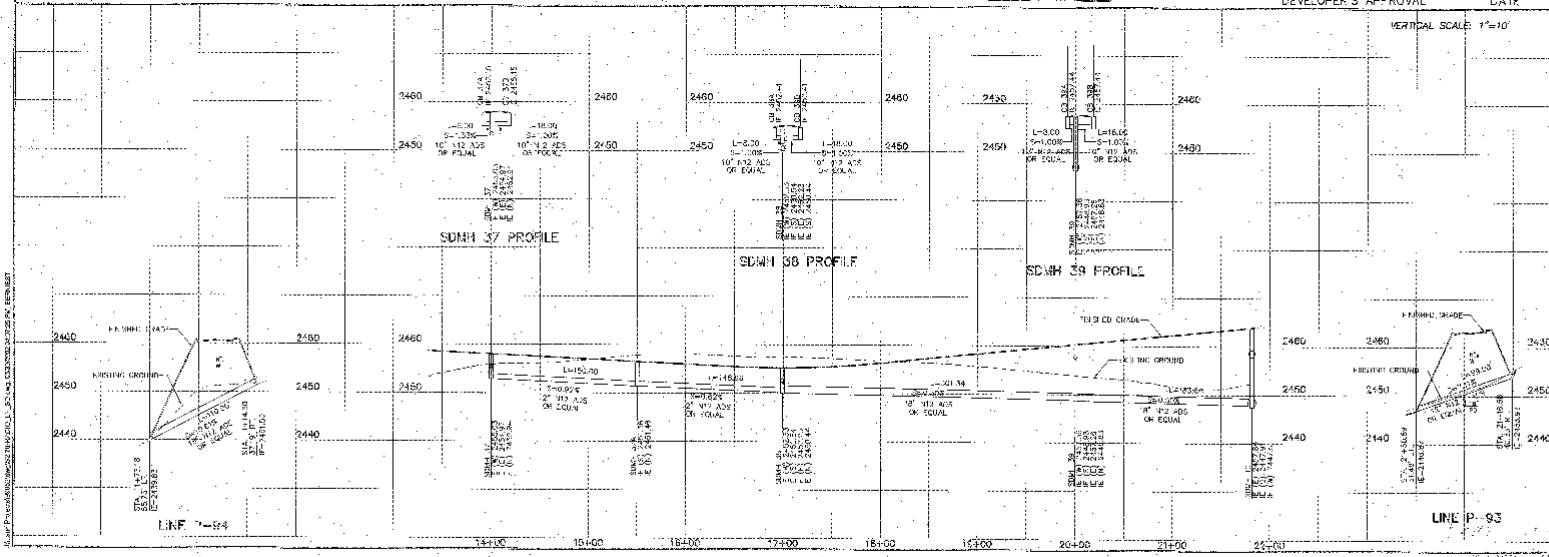
GRAPHIC SCALE
1 inch = 50 ft.

UNDERGROUND SERVICE ALERT
CALL 456-8000

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
CONTRACT NUMBER 2014-0000
PARIO LANE
SEC. 25-T25N-R43E, 2014-0000
SPOKANE COUNTY, WA

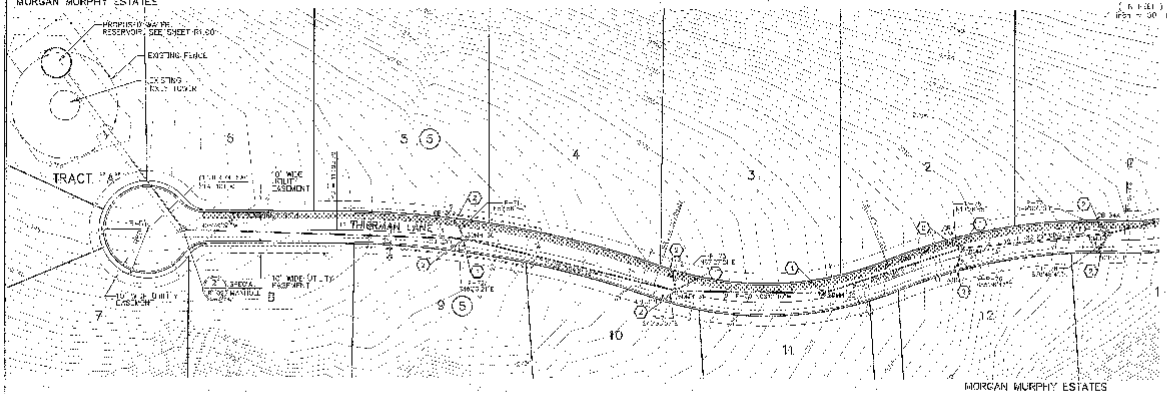
S2.70

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

GRAPHIC SCALE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
455-8000

MORGAN MURPHY ESTATES



CONSTRUCTION NOTES

1. INSTALL 8-48" X 24-48" DEEP CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-2 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. INSTALL CATCH BASIN INLET TYPE 1 WITH TRAVE AND 1998 TRAFFICA GRATE PER SPOKANE COUNTY STANDARD PLAN B-7, B-9, B-10 AND B-11. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.

MANHOLE SCHEDULE

RIM NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 30	1+93		2735.62	1-B
SDMH 31	15+50	–	2727.00	1-B
SDMH 32	17+21.91	5.00' LT.	2715.76	1-B
SDMH 33	19+53.19	5.00' LT.	2703.10	1-B
SDMH 34	23+22.57	8.00' LT.	2690.93	1-B

CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
CB 30A	1+45	14.50' LT.	2736.67	TYPE 2
CB 30B	1+48	13.50' LT.	2735.65	TYPE 2
CB 31A	15+42	9.50' LT.	2727.67	TYPE 2
CB 31B	15+42	13.50' RT.	2727.72	TYPE 2
CB 32A	18+13.11	9.50' LT.	2716.67	TYPE 2
CB 32B	18+13.12	13.50' RT.	2713.75	TYPE 2
CB 33A	19+55.46	9.50' LT.	2690.9	TYPE 2
CB 33B	19+55.41	13.50' RT.	2691.73	TYPE 2

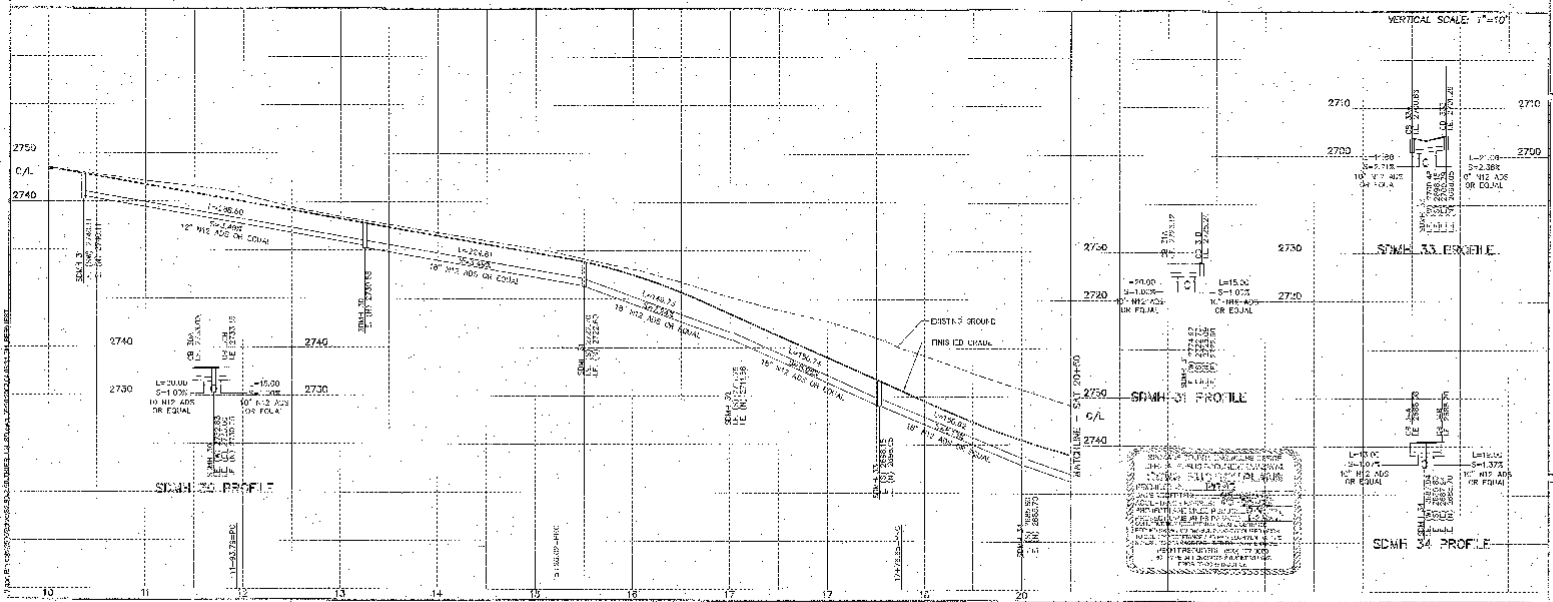
DEVELOPER'S APPROVAL

DATE

COUNTY DATUM

BASED ON GPS ELEVATION FOR THE SW CORNER OF SECTION 31 T.25 N., R.44 E.W.M. ADJUSTED TO MEAN SEA LEVEL PER SPOKANE COUNTY ENGINEERS.

VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THERMAN LANE
SECTION 25, T25N, R43E
SPOKANE COUNTY, WA

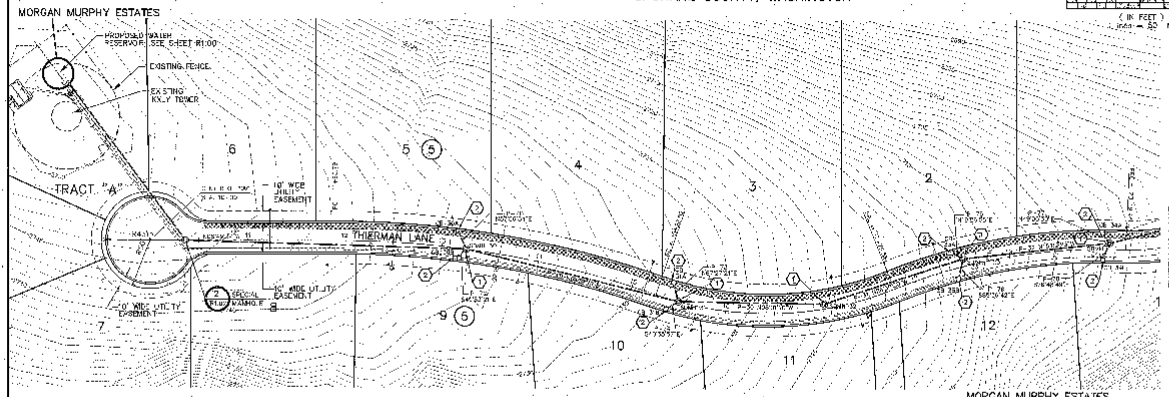
SDMH 30A
MORGAN MURPHY ESTATES
PLAT 3RD
PROFILE

$2.50

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 INCH = 50 FT.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL AND LOCATE WHAT BELOW FOR UG



CONSTRUCTION NOTES

1. TYPE "B-48" MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-8 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "1" CATCH BASIN WITH TYPE "1" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN B-6, B-10 AND B-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.

MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 30	13+25	–	2735.65	B-48
SDMH 31	15+90	–	2722.64	B-48
SDMH 32	17+01.91	5.00' LT.	2707.15	B-48
SDMH 33	18+53.2	7.80' LT.	2729.05	B-48
SDMH 34	20+07.37	6.10' LT.	2699.46	B-48

CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
CB 30A	13+15	15.50' LT.	2735.53	TYPE 2
CB 30B	13+15	2.50' RT.	2735.05	TYPE 2
CB 31A	15+40	16.50' LT.	2727.15	TYPE 2
CB 31B	15+40	3.50' RT.	2727.67	TYPE 2
CB 33A	18+73.11	19.50' LT.	2709.22	TYPE 2
CB 33B	18+73.11	12.50' RT.	2710.34	TYPE 2
CB 34A	19+95.46	19.50' LT.	2699.33	TYPE 2
CB 34B	19+95.46	13.50' RT.	2699.46	TYPE 2

COUNTY DATUM
BASED ON G.P.S. ELEVATION FOR THE SW CORNER OF SECTION 36 (EL=2332.70) AS S 1/4 OF SEC 1(N 2) (EL=2327.33) PROVIDED BY JERRY SIMS, SPOKANE COUNTY ENGINEERS

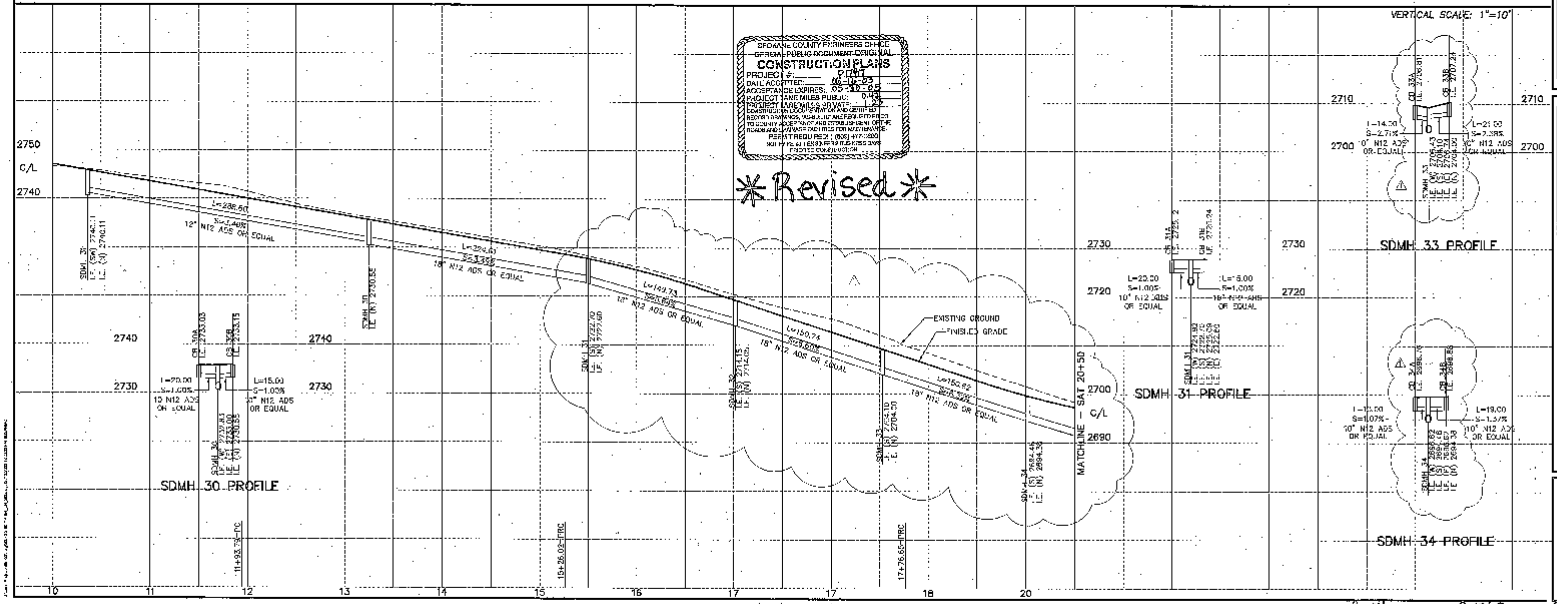
Mike Thune
DEVELOPER'S APPROVAL

6/16/03
DATE

VERTICAL SCALE: 1"=10'

SPOKANE COUNTY ENGINEERS OFFICE
GENERAL PUBLIC DOCUMENT (ORIGINAL)
CONSTRUCTION PLANS
PROJECT #: 2000000
DATE ACCEPTED: 06-16-03
ACCEPTANCE EXPIRES: 09-16-03
SUBJECT TO RULES PURSUANT TO SPOKANE COUNTY CODE SECTION 1.01.
EXISTING STORM WATER SYSTEMS MUST BE CONSTRUCTED TO COUNTY STANDARDS, PUBLIC WATER SYSTEMS TO COUNTY STANDARDS AND ESTABLISHMENT OF ROADWAY GRADES MUST BE IN PLACE FOR ROADWAYS.
PERMIT REQUESTS: (509) 477-3600
NOTIFY 24 HOURS PRIOR TO BEGINNING WORK
PROJECT ENGINEER

Revised



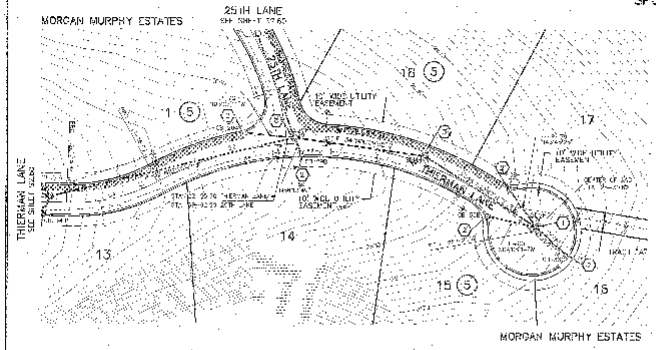
STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THIERMAN LANE
STA. 10+00 TO SAT 20+00
SPOKANE COUNTY, WA

Sheet Title
STORM DRAIN PLAN AND PROFILE

S2.80
Sheet Number

Revised P-1787 Eng Root & Drainage

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE II-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN J-5 AND U-4. SEE WARNER - SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "C" CATCH BASIN WITH TYPE "D" METAL FRAME AND TYPE "D" GRATE PER SPOKANE COUNTY STANDARD PLAN S-1, G-10 AND G-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. TYPE I-48S MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN J-1 AND U-4. SEE WARNER - SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.

MANHOLE SCHEDULE

MH NO.	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 29	22+67.49	8.13' LT.	2681.76	I-48S
SDMH 30	24+05.06	8.37' LT.	2675.47	I-48S
SDMH 36	304+30.62	[illegible]	2670.24	II-48

CATCH BASIN SCHEDULE

CB NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
CB 29A	22+19.52	13.00' LT.	2681.76	TYPE 2
CB 29B	22+22.26	13.00' RT.	2680.29	TYPE 2
CB 30A	24+05.40	22.00' LT.	2676.40	TYPE 2
CB 30B	24+05.31	19.50' RT.	2676.55	TYPE 2
CB 36C	1 13+05.025	—	2671.91	TYPE 2

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
TWO WORKING DAYS
BEFORE YOU DIG

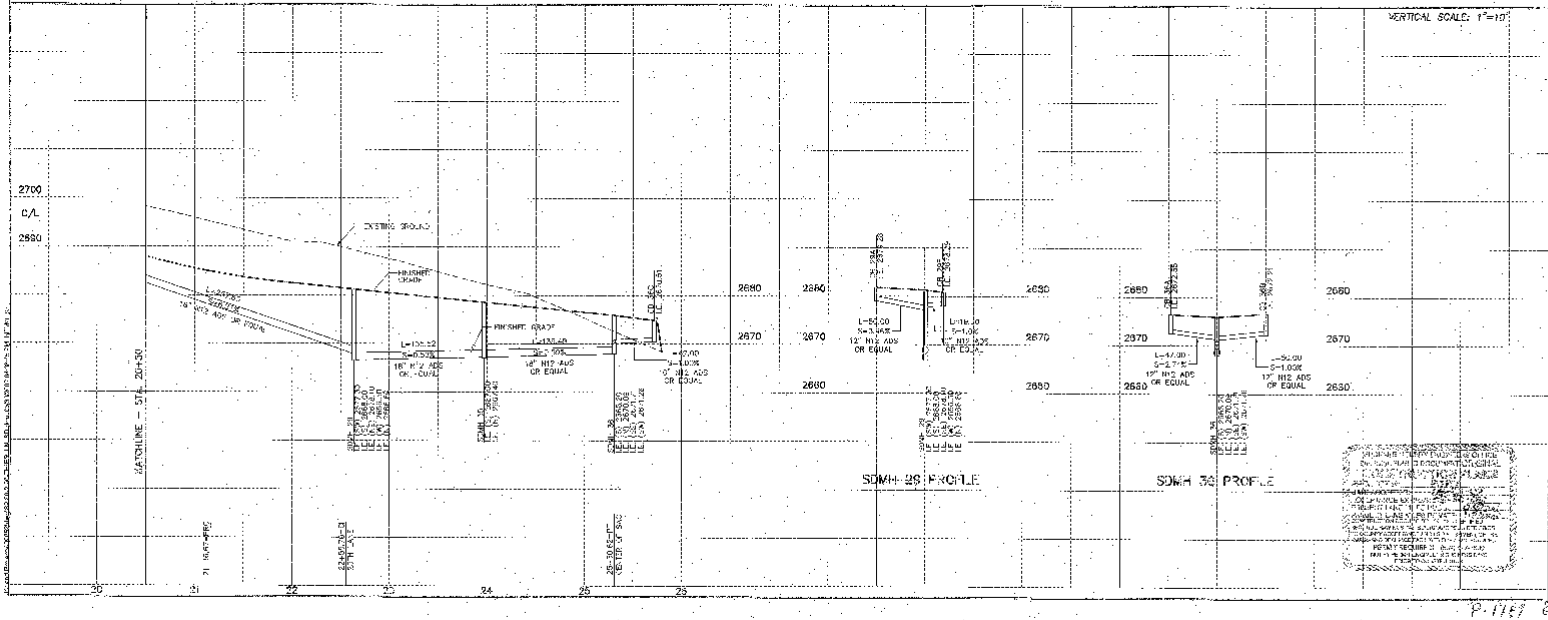
GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

DEVELOPER'S APPROVAL

DATE

COUNTY DATUM

BASED ON U.S.G.S. ELEVATION FOR T.2 [illegible]
[illegible]
SECTION 25 [illegible]
BY THE SPOKANE COUNTY ENGINEERS



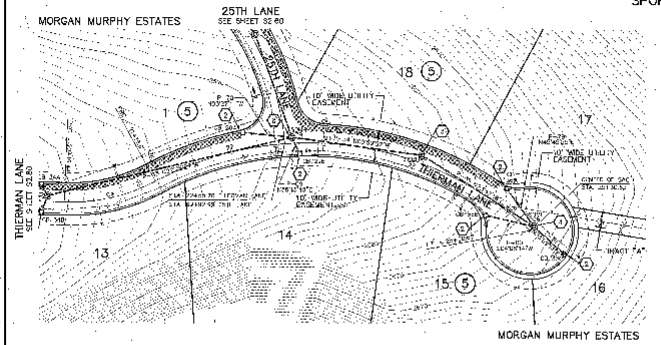
SHEET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THERMAN LANE
STA 20+00 TO STA 25+50
SPOKANE COUNTY, WA

SEWER PLAN
SYSTEM SEWER
PROFILE

52230

P.1161

SEC. 25, T.25 N., R.43 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. TYPE II-48 MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.
2. TYPE "1" CATCH BASIN WITH TYPE "M" METAL FRAME AND TYPE "2" METAL GRATE PER SPOKANE COUNTY STANDARD PLAN U-4, U-10 AND U-13. SEE CATCH BASIN SCHEDULE FOR CATCH BASIN LOCATIONS AND RIM ELEVATIONS.
3. TYPE II-48S MANHOLE WITH CAST IRON FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLAN U-5 AND U-14. SEE MANHOLE SCHEDULE FOR MANHOLE LOCATIONS AND RIM ELEVATIONS.

MANHOLE SCHEDULE

MH NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
SDMH 29	23+63.79	6.16' LT.	2691.80	II-48S
SDMH 36	23+97.06	5.97' LT.	2686.33	I-48S
SDMH 38	23+30.62	5.97' LT.	2678.59	II-48

CATCH BASIN SCHEDULE △

CB NUMBER	STATION	OFFSET	RIM ELEV.	TYPE
CB 28A	24+15.52	19.55' LT.	2687.19	TYPE 2
CB 29B	23+70.76	13.50' RT.	2691.18	TYPE 2
CB 36A	24+96.46	20.60' LT.	2678.24	TYPE 2
CB 36C	24+63.31	16.53' RT.	2679.41	TYPE 2
CB 36C	14+33.99 CDS	–	2672.93	TYPE 2

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
(U.S. TWO BUSINESS DAYS)
(LOCAL 509 ID)

Bonnie Engineering Architecture Landscape Architecture Land Surveying

PROFESSIONAL ENGINEER
GARY R. SCHWERS
WASHINGTON
STATE OF WASHINGTON
REG. 36216
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.
6/16/03

Mike Hume
DEVELOPER'S APPROVAL

6/16/03
DATE

REVISIONS	
05/30/03	REVISED PER REVIEW
05/30/03	SEDIMENT TRAPS
06/16/03	SEDIMENT TRAPS

Project Number: 3000067
CLC Job Number: 3000067
Drawn By: C.R., M.K.
Designed By: G.S.
Checked By: G.S.

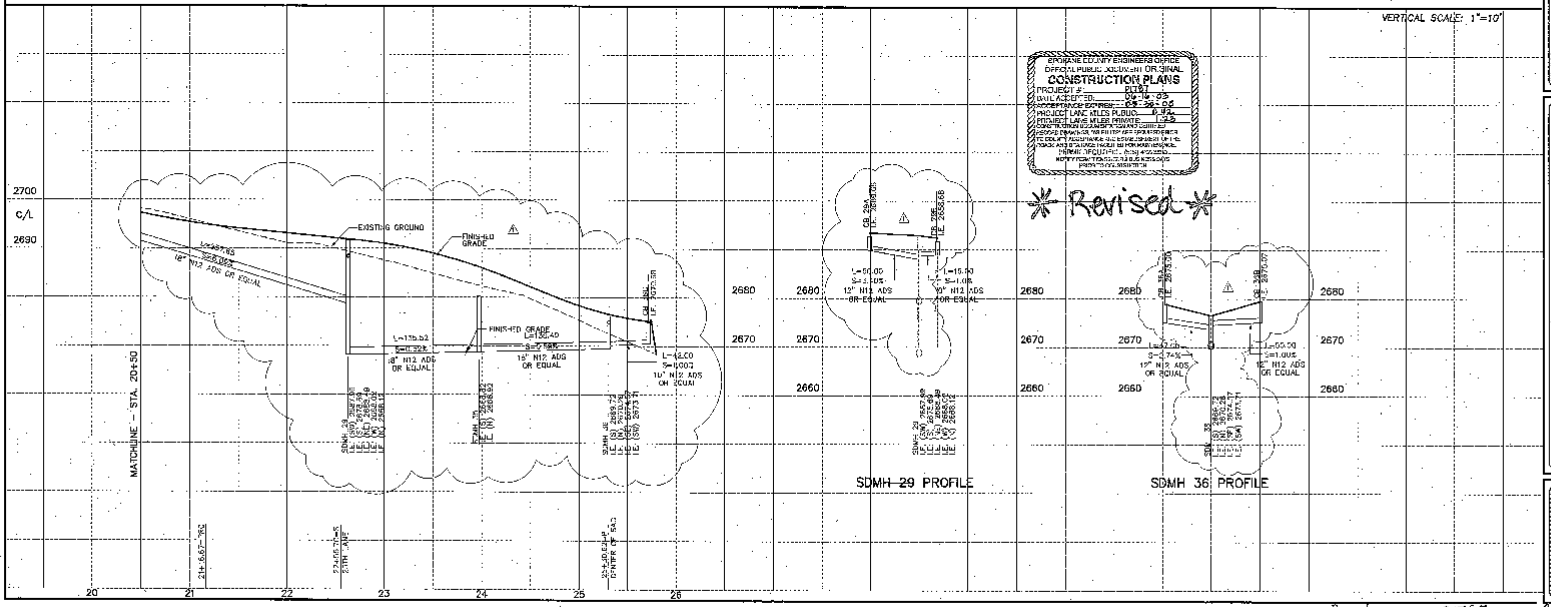
COUNTY DATUM

BASED ON S.P.C. ELEVATION 1,[illegible] FOUND AT THE SW CORNER OF SECTION 25 (EL.=2335.71) AS CALCULATED BY SECTION 25 (EL.=2475.337) PROVIDED BY JERRY SIMES, SPOKANE COUNTY ENGINEERS

VERTICAL SCALE: 1"=10'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC RECORD ORIGINAL
CONSTRUCTION PLANS
PROJECT #: [illegible]
MAIL ACCEPTANCE DATE: 05-16-03
ACCEPTANCE SCHEDULE: 05-30-03
PROJECT LANE MILES PUBLIC: [illegible]
PROJECT LANE MILES PRIVATE: [illegible]
CONSTRUCTION ACCEPTANCE BY COUNTY ENGINEER IS NOT A GUARANTEE OR WARRANTY BY THE COUNTY ENGINEER OR THE COUNTY REGARDING THE SUITABILITY OF THE WORK AND SERVICES PERFORMED BY THE WORKING ORIGINAL PERMIT INSPECTOR. DOES NOT ACCEPT ANY FUTURE CONSTRUCTION OR MAINTENANCE RESPONSIBILITY.

* Revised *



STREET CONSTRUCTION PLANS
MORGAN MURPHY ESTATES
THIERMAN LANE
STA. 20+00 TO STA. 25+30.62
SPOKANE COUNTY, WA

Sheet Title
STORM DRAIN PLAN AND PROFILE

S2.90
Sheet Number

Revised P1787 Eng Road & Drainage

SEC. 25, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

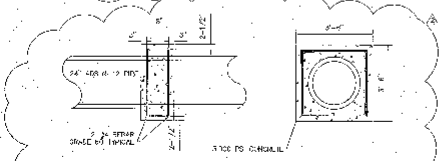
POND 1 INFORMATION			
TAG	STATION	OFFSET LT.	ELEVATION
A	19+41.10	17.00	2269.10
B	19+57.04	225.00	2268.97
C	20+14.73	224.10	2268.90
D	20+26.00	87.62	2268.90
E	19+73.68	14.62	2268.10
F	19+61.15	51.38	2268.10
G	19+38.41	88.73	2268.10
H	19+41.12	92.50	2268.10

POND 1 AREA TABLE		
ELEVATION (FT.)	POND AREA (S.F.)	VOLUME (C.F.)
2269.10	34,700	
2270.00	33,203	
2271.00	38,000	
2272.00	38,861	

REQUIRED 20% VOLUME ..... 11,591 C.F.
PROVIDED "20%" VOLUME ..... 11,591 C.F.
REQUIRED POND BOTTOM AREA ..... 23,189 S.F.
PROVIDED POND BOTTOM AREA ..... 24,540 S.F.
ACCESS POND AREA ..... 5,560 S.F.

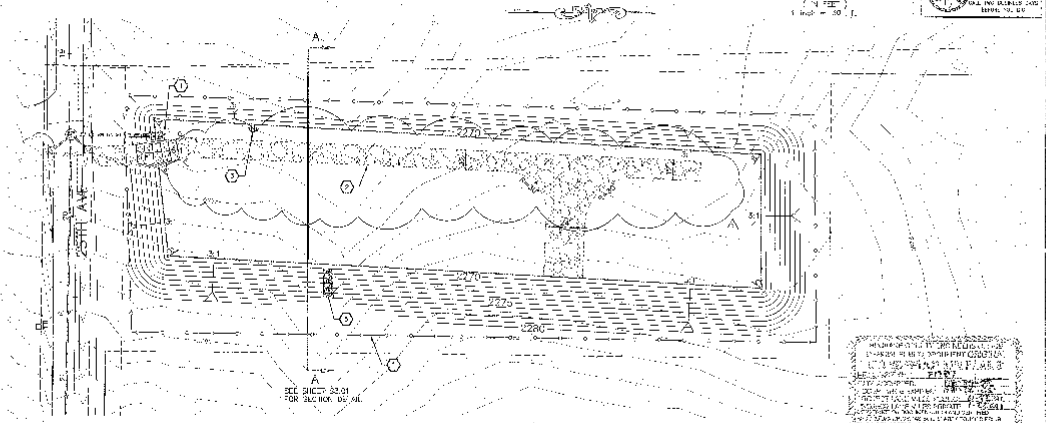
CONSTRUCTION NOTES

1. 5' W x 10' L x 1' D 18"-24" RIP RAP OVER COMPACTED NATIVE SOIL.
2. ACCESS ROAD WITH 6" CRUSHED ON COMPACTED NATIVE SOIL.
3. PROTECT EXISTING TREE TO REMAIN. PROVIDE AND INSTALL METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLAN B-15. STA. 19+49.40, 113.92' LT. RIM ELEV=2259.75
4. 6' CHAIN LINK FENCE WITH GATED ACCESS.
5. 24" TAP (HIGH PRO DIA. 3 SHEET SIZE).
6. OUTLET STRUCTURE PER DETAIL 1, SHEET S3.01.
7. EXISTING POWER POLES.
8. DISCHARGE STRUCTURE PER DETAIL 2, SHEET S3.01



TO REMAIN
REFER TO FIGURE 40 PART 3-08
IN SPOKANE COUNTY GUIDELINES
FOR STRUCTURES EASEMENT

PIPE ANCHOR DETAIL
NOT TO SCALE

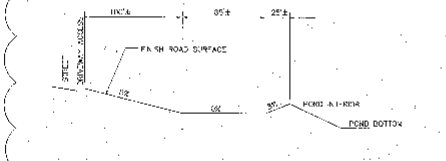


POND 1 DETAIL
SCALE: 1"=30'

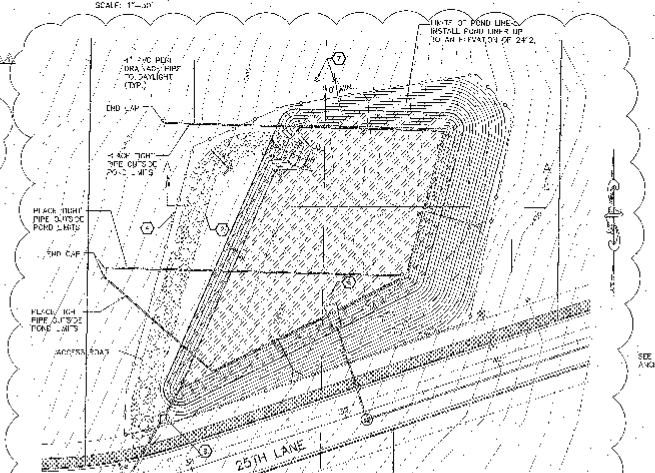
POND 2 INFORMATION			
TAG	STATION	OFFSET LT.	ELEVATION
A	39+08.16	19.00	2407
B	39+07.59	158.95	2407
C	39+25.53	159.10	2407
D	39+30.09	154.89	2407
E	39+29.31	180.00	2407
F	39+22.31	181.62	2407
G	40+15.13	145.21	2407
H	39+62.01	20.00	2407

POND 2 AREA TABLE		
ELEVATION (FT.)	POND AREA (S.F.)	VOLUME (C.F.)
2407	13,350	
2408	14,402	13,876
2409	15,478	28,710
2410	16,58	44,937
2411	17,702	61,978

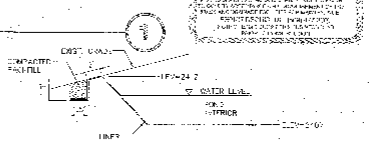
*MINIMUM BERM ELEVATION = 2412



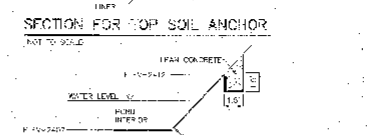
ACCESS ROAD PROFILE
NOT TO SCALE



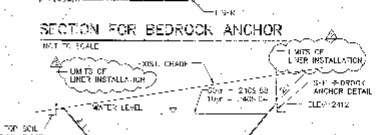
POND 2 DETAIL
SCALE: 1"=30'



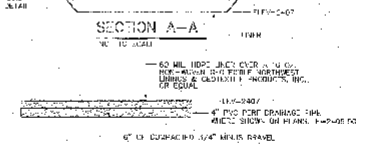
SECTION FOR TOP SOIL ANCHOR
NOT TO SCALE



SECTION FOR BEDROCK ANCHOR
NOT TO SCALE



SECTION A-A
NOT TO SCALE



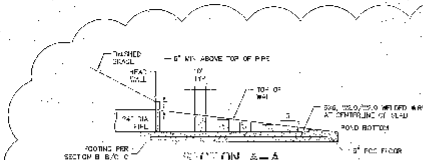
LINER SECTION
NOT TO SCALE

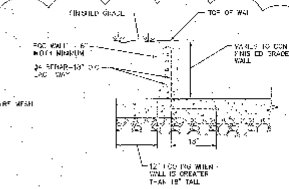
DEVELOPER'S APPROVAL — DATE

S3.00

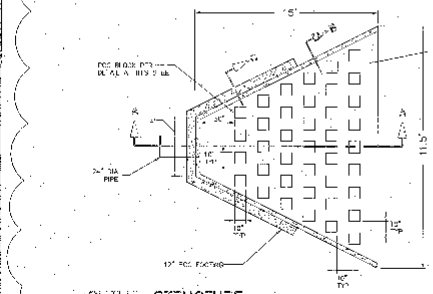
SEC. 26, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

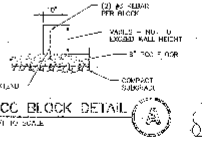
UNDERGROUND SERVICE ALERT
DIG-LINE NUMBER
456-8000

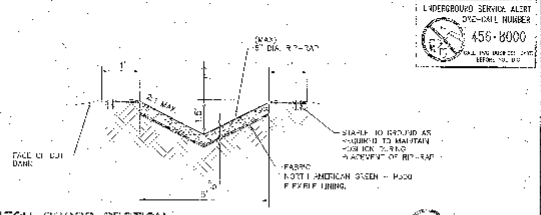


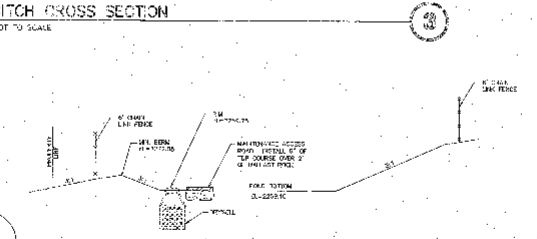


NOTE:
MIX FOR CONCRETE MIX FOR HEADWALL AND APRON SHALL BE 6 / 1/2 SACK, 3000 P.S.I.
HEADWALL SHALL BE REINFORCED WITH #4 BARS 12" O.C. EACH DIRECTION.
CHAMFER ON ALL EXPOSED CONCRETE EDGES.









NOTE: ORGANIC CHECK TESTING IS REQUIRED AS PART OF THE FINAL INSPECTION FOR THE TOPSOIL SINCE THE DRYWELL SHALL BE SITUATED 1-4 FEET ABOVE THE SOIL.
IF THE CATION EXCHANGE CAPACITY IS LESS THAN 10, ORGANIC MATERIAL SUCH AS TEA KILL FEED TO BE MIXED INTO THE SOIL. NO INSTALL WILL BE REQUIRED TO CONTROL THE PROPER CHECK. SOIL HAS BEEN REACTED.

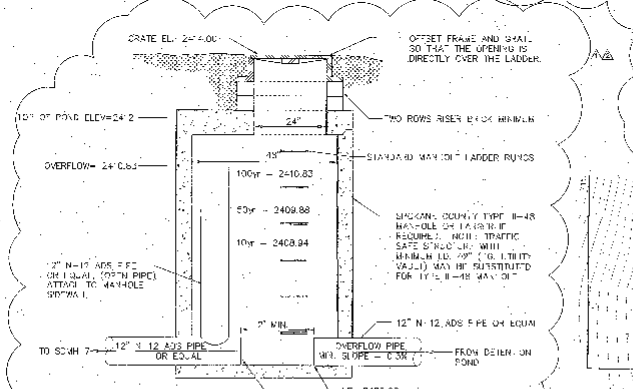
GRASS SEEDING NOTES:
EXCAVATION AND EMBANKMENT BANKS AND ALL DISTURBED AREAS IN ROADWAY STABILIZATION WITH INTRODUCING NATIVE SEED MIXTURE SHALL CONSIST OF THE FOLLOWING GRASS SPECIES:

20% BLUE PERENNIAL RYE
20% DURAN HARD FESCUE
40% CHEWINGS FESCUE
20% REDTOP OR CANADIAN BLUEGRASS

GRASS FEED: 60 LBS. / ACRE

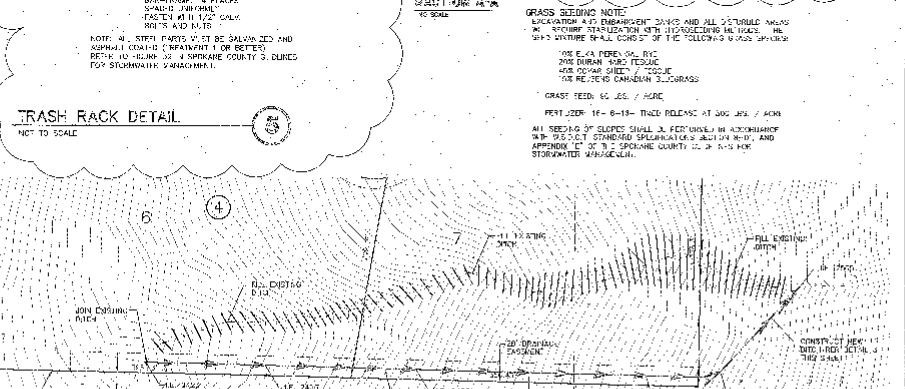
FERTILIZER: 16 - 8 - 13 - TYPE RELEASE AT 300 LBS. / ACRE

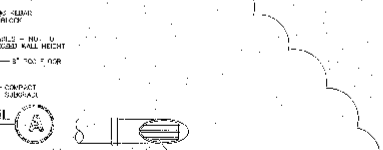
ALL SEEDING OF SLOPES SHALL BE FERTILIZED IN ACCORDANCE WITH 9.5.2.6.1 STANDARD SPECIFICATIONS SECTION 9-14.1, AND APPENDIX "E" OF THE SPOKANE COUNTY MANUAL FOR STORMWATER MANAGEMENT.



NOTE:
ALL METAL PARTS AND SURFACES MUST BE MADE OF CORROSION RESISTANT MATERIAL OR GALVANIZED. COATING CORROSION PROTECTION MUST BE ASSURED.

COUNTY DATUM
BASED ON GPS STATION TOP TO 59 CONNA
SECTION 26 R.L. 2453.70 A.M.S.L. 1/4 CR
SECTION 26 R.L. 2453.70 PROVIDED BY PERRY
SEMS, SPOKANE COUNTY, INSTALL 5





DEVELOPER'S APPROVAL

DATE

SHEET DESCRIPTION PLAN
BOGSAN MANOR SITE PLAN
STORM DRAINAGE AND
DETAILS
SPOKANE COUNTY, WA

S3.05