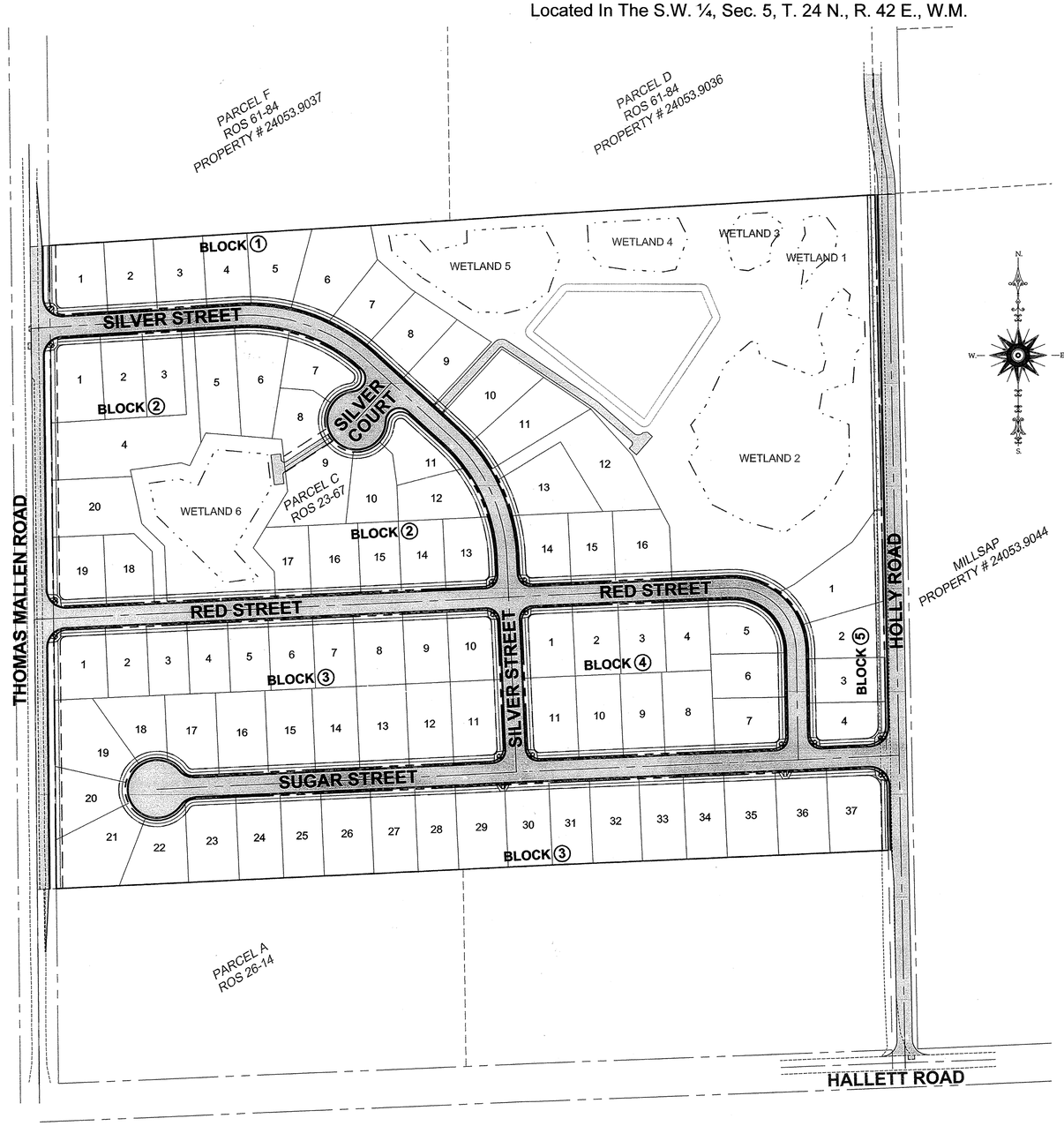
MAPLE TERRACE

Located In The S.W. ¼, Sec. 5, T. 24 N., R. 42 E., W.M.



General Notes

Owner/Developer:

Aho Construction I
5512 NE 109th court, Suite 101
Vancouver, WA 98662
(360)254-0493 (Ph)
(360)254-6998 (Fax)

Surveyor:

Minister-Glaeser Surveying Inc.
6303 Burden Blvd., Suite E
Pasco, WA 99301
Phone: (509) 544-7802

Engineer:

Hopper Dennis Jellison, PLLC
Contact: Jason Mattox, E.I.T.
6115 Burden Blvd., Suite E
Pasco, WA 99301
Phone: (509) 547-5119

Boundary and topographic information prepared by Minister & Glaeser Surveying, Inc., 2006.

Benchmark : WSDOT GPS W354 , USC&GS Brass disk in 6 inch pipe in concrete monument. Elevation is 2412.35, NAVD 88 Datum, US survey feet.

Locations of existing utilities shown in plans are approximate. The contractor shall be responsible for locating all underground utilities prior to construction of road and drainage facilities.

A minimum of two full business days prior to beginning construction, the Contractor shall call 1-509-456-8000 (Utilities Underground Location Center) for location mark-up of existing utilities.

Any archaeological findings shall be reported to the County inspector and any state agency required by Washington State law.

Site grading, paving, and storm sewer construction, materials and workmanship shall conform to the "2006 Standard Specifications for Road, Bridge and Municipal Construction" prepared by WSDOT/APWA, and shall conform with the "Spokane County Standards For Road And Sewer Construction" 2001, and as amended.

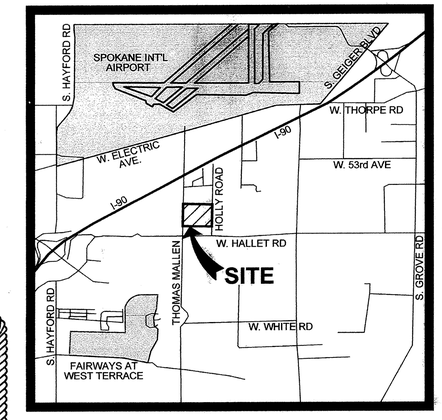
Public sanitary sewer and water system construction, materials, and workmanship shall conform to the "2006 Standard Specifications for Road, Bridge & Municipal Construction" prepared by the WSDOT/APWA, and the standards and practices of the City of Spokane Department of Engineering Services.

Erosion, sediment, and air quality control shall comply with Spokane County air quality control ordinances, and the notes and details on these plans.

The contractor is required to have a complete set of the approved road and drainage plans on the job site whenever construction is in progress.

If the contractor discovers any discrepancies between the plans and existing conditions encountered, the contractor shall immediately notify the Design Engineer and the Spokane County Engineer's Office.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



VICINITY MAP
NOT TO SCALE

PROJECT APPLICANT

Thomas Brunowski 6/26/07
AHO CONSTRUCTION Date

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4. Erosion Control Details
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8. Silver Street/Silver Court Storm Drainage & Street Plan & Profile
9. Red Street Storm Drainage & Street Plan & Profile
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11. Sugar Street Storm Drainage & Street Plan & Profile
12. Sugar Street Storm Drainage & Street Plan & Profile
13. Thomas Mallen Road Storm Drainage & Street Plan & Profile
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28. Thomas Mallen Road Water Plan & Profile
29. Storm Facility Plan
30. Storm Facility Plan
31. Storm Facility Details
32. Miscellaneous Details
33. Signing, Striping, & Illumination Plan

The design improvements shown in this set of plans and calculations conform to the applicable editions of the Spokane County Standards for Road and Sewer Construction and the Spokane County Guidelines for Storm Water Management. The Spoken County Engineer has approved all design deviations. I approve these plans for construction.

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(306) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF, STATE OF WASHINGTON, 34322, REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

1/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD						GRADE ESTABLISHMENTS					

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL 1"=100'
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: COVER SHEET
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT:
CITY PROJECT NUMBER
CITY PLAN NUMBER: COVER 5-24-42
EFN:

P-1980 Eng Road Drainage

Spokane County Standard Notes for Construction Plans

1) All work and materials shall be in conformance with the "Spokane County Standards For Road and Sewer Construction" 1995, and as amended.

2) 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.

3) The contractor is required to have a complete set of approved road and drainage plans on the job site whenever construction is in progress.

4) If the Contractor discovers any discrepancies between plans and existing conditions encountered, the Contractor shall immediately notify the Design Engineer and the Spokane County Engineer's Office.

5) For construction of drywells, install filter fabric (Amoco 4545 or approved equivalent) between the washed drainrock and the native soils.

6) Prior to site construction, the Contractor is responsible for locating underground utilities. Call the underground utility location service at 456-8000 before you dig.

Supplemental Notes, When Applicable

7) For any curb grades less that 0.8% (0.008 ft/ft), a Washington State-licensed Professional Land Surveyor shall verify that the curb forms are at the grades noted on the approved plans, prior to placement of curb material. The Contractor is responsible for arranging and coordinating work with the Professional Land Surveyor.

8) The Contractor shall employ a licensed surveyor to verify that the cross-gutter forms are at the correct plane grade prior to concrete placement. The cross-gutters shall be constructed prior to paving, and the pavement shall then match the edge of concrete gutter.

9) Onsite grading shall be in accordance with the approved grading plan and ESC plan. Any import or export of material shall be from a preapproved source/destination and coordinated with the Spokane County Department of Building and Planning at 477-3675. Grading on this site or any other site must comply with all development regulations including, but not limited to, grading permits, SEPA review, timber harvest permits, critical areas, floodplains, designated drainageways, etc.

Site Grading

The portion of the site slated for construction under these construction documents is to be mowed and stripped to remove all grass, roots, organic soil, and construction fill debris prior to the beginning of any grading operations. Strippings shall be stockpiled for later use as final lift ground cover.

Following stripping and grubbing, the exposed soils shall be proof rolled to reveal weak, organic, or other unsuitable soils. Unsuitable soils shall be excavated to firm ground.

Exposed subgrade soils on areas to receive structural fill should be scarified to a depth of 12" and be recompacted with structural fill.

Fill areas shall be structurally filled with surplus suitable materials from cut areas or suitable imported materials. Select materials shall be placed in fill areas in lifts not to exceed 8". Each lift shall be compacted to 95% of the maximum dry density. Fill materials should be free of organics, and rock fragments in excess of 6 in dimension.

Compaction testing shall be done in accordance with the AASHTO T-99.

At the end of the grading operation, the stockpiled strippings shall be distributed on the landscape areas in a compacted depth not to exceed 12".

All surfaces shall be graded smooth and free of irregularities that might accumulate surface water.

Maximum slopes on site at the completion of grading shall not exceed 2 horizontal: 1 vertical (50%).

Storm Sewers

Materials for storm sewer inlet laterals and pipe shall be Corrugated Polyethylene Storm Sewer Pipe or approved equal.

Trench excavation shall meet the requirements of Section 7-08.3(1).

Storm sewer pipe bedding and backfill shall meet the requirements of Section 7-08.3(3). Backfill material shall be compacted to 95% of the maximum relative density.

Trench backfill shall meet the requirements of Section 7-08.3(3).

All roof water shall be routed and splash blocked to landscape areas.

Foundation drains shall be directly connected to storm sewer lines.

Sanitary Sewer Construction Notes

Sanitary sewer laterals shall be 4" in size, installed at a minimum slope of 0.02 ft/ft unless otherwise specified on the plan.

Materials for sanitary sewer pipe shall be Solid Wall CPEP Sanitary Sewer Pipe unless otherwise specified.

Prior to backfilling sewer service lateral ends, the Contractor shall notify the project land surveyor in a timely manner so that construction "As-Built" information may be gathered. If the Contractor backfills prior to the gathering of required information, the Contractor shall be required to expose the ends of service laterals and sewer main cleanouts.

Backfill for sanitary sewer pipe shall be as required by the City of Spokane utility permit.

Service laterals shall be extended to 16' behind the R/W line and the contractor shall mark lateral ends with a 10' - 2" x 4" board, tracing wire and mark the depth of the lateral on the 2x4 board.

Contractor to construct cutoff walls in areas of rock, groundwater and as determined by the City of Spokane Field Engineer in accordance with the City of Spokane Standard Plan B-19.

Water System Construction Notes

Pipe backfill for water pipe shall be as required by the City of Spokane Standards.

Contractor to maintain a minimum 10' horizontal and 18" vertical separation between all existing and proposed water and sewer lines.

City forces shall make all connections to existing mains. Contractor to pay all costs.

All utility trench bedding shall be in conformance with City of Spokane Standard Plan B-18C.

All valves, fittings, etc., shall be ductile iron. Water pipe shall be ductile iron, Class 50.

Deflections at pipe joints shall not exceed 75% of maximum permissible deflection per listed deflection table or manufacturers recommended deflection, which ever is less.

Water lines shall be restrained per listed Joint Restraint Table.

Contractor to coordinate with City of Spokane Water Department to shut off necessary water lines for construction and maintenance service as necessary.

Install 2-inch blowoff assembly at end of each waterline per WSDOT Plan B-21 for flushing and testing.

Backfill to be installed per WSDOT Standard Specifications. Lifts to be 8 inches maximum and compacted in accordance with City of Spokane Standard Plan B-18D. Provide marking tape at mid-depth of backfill.

All fire hydrants shall include a STORZ adapter.

Individual pressure reducing valves are required on all services.

Sewer and storm water line crossings as shown on the plans or directed by the City of Spokane Field Engineer shall meet the requirements of City of Spokane Standard Plan W-111.

Monumentation

The contractor shall coordinate with the surveyor so that centerline monuments are set as required by Spokane County. Monuments shall be set at curvature points and street intersections and shall conform to Spokane County Standard Plan A-14.

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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT

Thomas Arnesmith 6/26/07
AHO CONSTRUCTION Date

JOHN ERIC FETTEROLF — STATE OF WASHINGTON — 38322 — REGISTERED PROFESSIONAL ENGINEER — 6/27/07
EXPIRES: JAN 27, 2009

2/33

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SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

LAST PROJECT BY		DATES
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REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

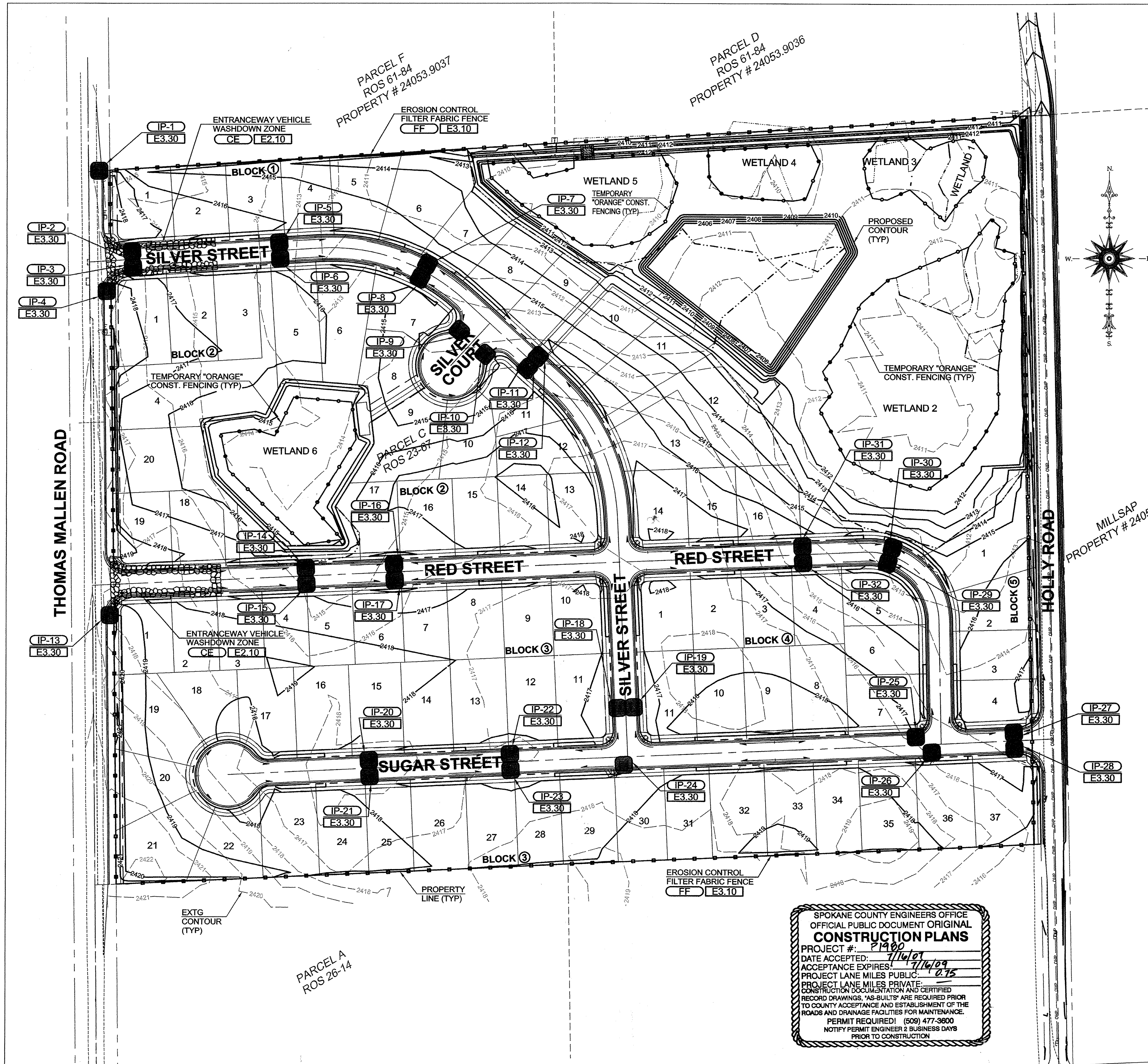
SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: GENERAL NOTES
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

TYPE OF IMPROVEMENT:
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:
Detail 5-24-42

P-1980 Eng Road Drainage



Property Owner:
Aho Construction I
5512 NE 109th Court, Suite 101
Vancouver, WA 98662
(360)254-0493 (Ph)
(360)254-6998 (Fax)

Permit Applicant:
Scott's Excavating
10403 W Westbow Road
Spokane, WA 99224
(509)458-7548 (Ph)
(509)458-7616 (Fax)

Project Site Contact:
Clayton Warren
(509)458-7548 (Ph)
(509)458-7616 (Fax)

Project Address:
North of Hallet Road, East of Thomas Mallen Road,
West of Holly Road.

Legal Description:
SW 1/4 Section 5, Township 24 North, Range 42 East, W.M.

Plans Prepared By:
Jason Mattox, E.I.T.

Project Description:
Development of 30.86 acre site into 88 single family residential lots, with paved roads & designated open spaces. There are category 3&4 wetland areas located in the NE portion of the site along Holly Road. There is a category 4 wetland located midwestern portion of the site near Thomas Mallen Road.

Existing Vegetation:
The majority of the site is vacant with natural vegatation.

Existing Water Bodies:
There are currently no existing water bodies on the site.

On-Site Soils:
The top layer consists of a till (soil) zone of organic silt with an average thickness of 15 inches. Over the majority of the site, the (till) zone is under lain by a layer of medium stiff to hard silt to silty clay that ranged from 1 foot to over 10 feet. A medium dense to dense gravel layer is present in isolated areas of the site.

Description Of ESC Measures:

An Erosion/Sedimentation Control (ESC) plan is required for this project. Implementation of the ESC plan, and construction, maintenance, and upgrading of the ESC 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.

Approval of the ESC plan does not constitute approval of any of the proposed road, storm drainage, grading or utility design elements shown on the ESC plan.

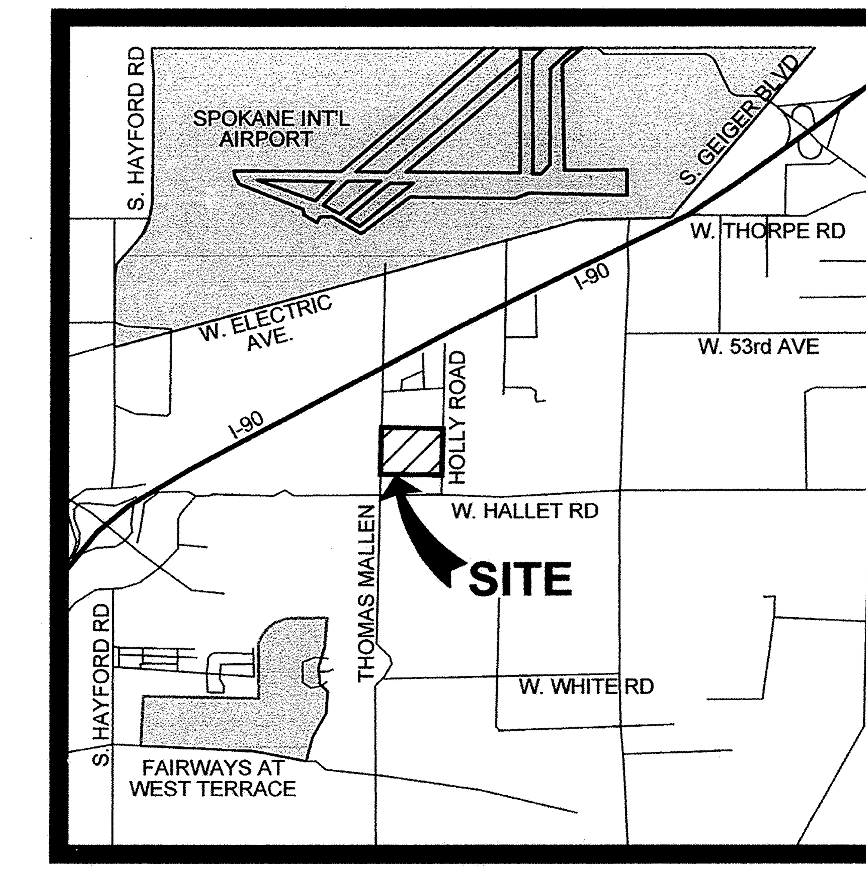
The Contractor/Developer is responsible for installing Rock Construction Entries at any and all locations used to enter or exit the project site.

The erosion/sedimentation control measures shown are the minimum requirements for the anticipated site conditions. The contractor shall inspect and maintain these ESC measures daily, and shall maintain and upgrade these measures as necessary to prevent sediment-laden water from either flowing off the site, or into new/existing storm drainage facilities, such as drywells, culverts, or gravel galleries.

The ESC facilities show on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water do not enter the drainage system, roadways, or violate applicable water and air quality standards.

Care should be taken to not disturb more area than needed for construction requirements. All disturbed soils surfaces are to be stabilized. Stabilization of disturbed soil areas will consist of: hydroseeding or handseeding, mulching, placing of erosion control blankets or plastic in landscaping soil areas. It will also consist of paving and concrete work in driving, parking and sidewalk areas. All seeded areas are to be fertilized, watered and maintained to enhance the immediate regrowth of vegetation.

Geotextile fabric is to be placed on the rims of drywells, catch basins and inlets until such time the vegetation on the site is established and the threat of sediment deposition into the drainage system is mitigated.



VICINITY MAP
NOT TO SCALE

Material stockpiles are to be protected from precipitation by the following means:

Temporary - cover piles with tarps or plastic sheeting weighted with tires, lumber or concrete blocks.

Permanent - cover piles with tarps or plastic, or reseed. Perimeter areas around piles are to be surrounded with erosion control filter fabric fences until soils surface is stabilized with reseeding.

The ESC facilities shall be inspected daily by the contractor and maintained as necessary to ensure continuous functioning. Inspection and maintenance shall include, but not be limited to:

Verifying that all areas are graded such that all runoff is directed to a sedimentation trap facility before discharging to surface.

Removal of trapped silts at silt barriers, silt traps, or points of accumulation.

Additional protective measures, as required, due to job site conditions.

Stabilized construction entrances installed at the beginning of construction and maintained for the duration of the project. Monitoring of vehicles leaving the site to minimize transmission of loose soils to the public roadways.

If sediment is transported onto a road surface, the surface is to be cleaned thoroughly at the end of each day.

The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 24 hours following a storm event.

At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

This sedimentation and erosion control plan is intended to be utilized as a guide to control the transportation of loose soils from the property that cause water quality and nuisance problems outside of the construction area.

Depending upon the Contractor's construction practices, some portions of the proposed erosion control plan may be varied according to the job site condition. All changes to the plan must be reviewed and approved by the Engineer prior to adjustment.

Onsite grading shall be in accordance with the approved grading plan and ESC plan. Any import or export of material shall be from a preapproved source/destination and coordinated with the Spokane County Department of Building and Planning at 477-3675. Grading on this site or any other site must comply with all development regulations including, but not limited to, grading permits, SEPA review, timber harvest permits, critical areas, floodplains, designated drainageways, etc.

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NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

On-Site Soils Table	
HrB	Hesseltine Gravelly Silt Loam
HnB	Hesseltine Silt Loam
ChB	Cheney Stony Silt Loam
CnB	Cheney and Uhlig Silt Loams

PROJECT APPLICANT
Thomas Arrowsmith (signature) 6/26/07
AHO CONSTRUCTION Date

I, John E. Fetterolf P.E. certify that this Erosion Control Plan meets the ESC requirements as listed in Chapter 4.5 of the Guidelines for Storm Water Management of Spokane County Public Works.

JOHN ERIC FETTEROLF — STATE OF WASHINGTON — 38322 — REGISTERED PROFESSIONAL ENGINEER — 6/27/07
EXPIRES: JAN 27, 2009

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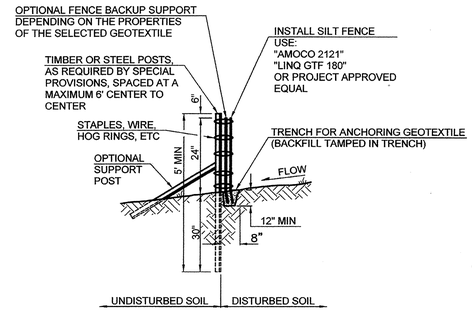
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: EROSION CONTROL
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

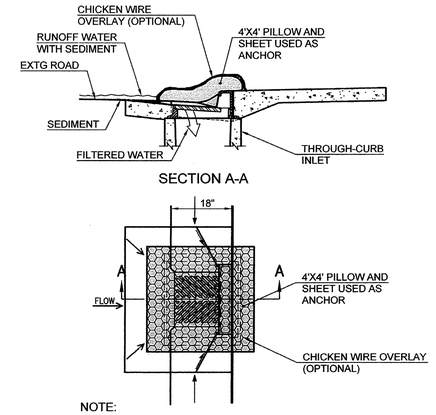
TYPE OF IMPROVEMENT:	EROSION
CITY PROJECT NUMBER	CITY PLAN NUMBER
EFN:	

P-1980 Eng Road Drainage



Erosion Control Filter Fabric Fence

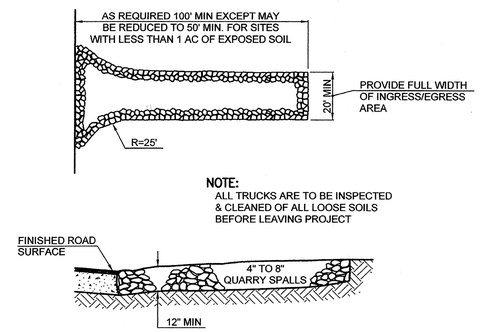
E 3.10 FF NTS



NOTE:
USE 15-16 LBS OF WOOD CHIP FILTER INSIDE POLYESTER FABRIC (ASTM-D191 OR EQUAL) PILLOW.

Thru Curb Inlet Silt Barrier

E 3.30 IP NTS



NOTE:
ALL TRUCKS ARE TO BE INSPECTED & CLEANED OF ALL LOOSE SOILS BEFORE LEAVING PROJECT

1. EXCAVATE MINIMUM OF 12" OF EXISTING SOILS.
2. PLACE MINIMUM OF 12" OF 3" MINUS CRUSHED ROCK.

Entranceway Vehicle Washdown Zone

E 2.10 CE NTS

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Thomas Greenwitt 6/26/07
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JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38522
REGISTERED PROFESSIONAL ENGINEER
6/27/07
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DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD						GRADE ESTABLISHMENTS					

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT. NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL N/A
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

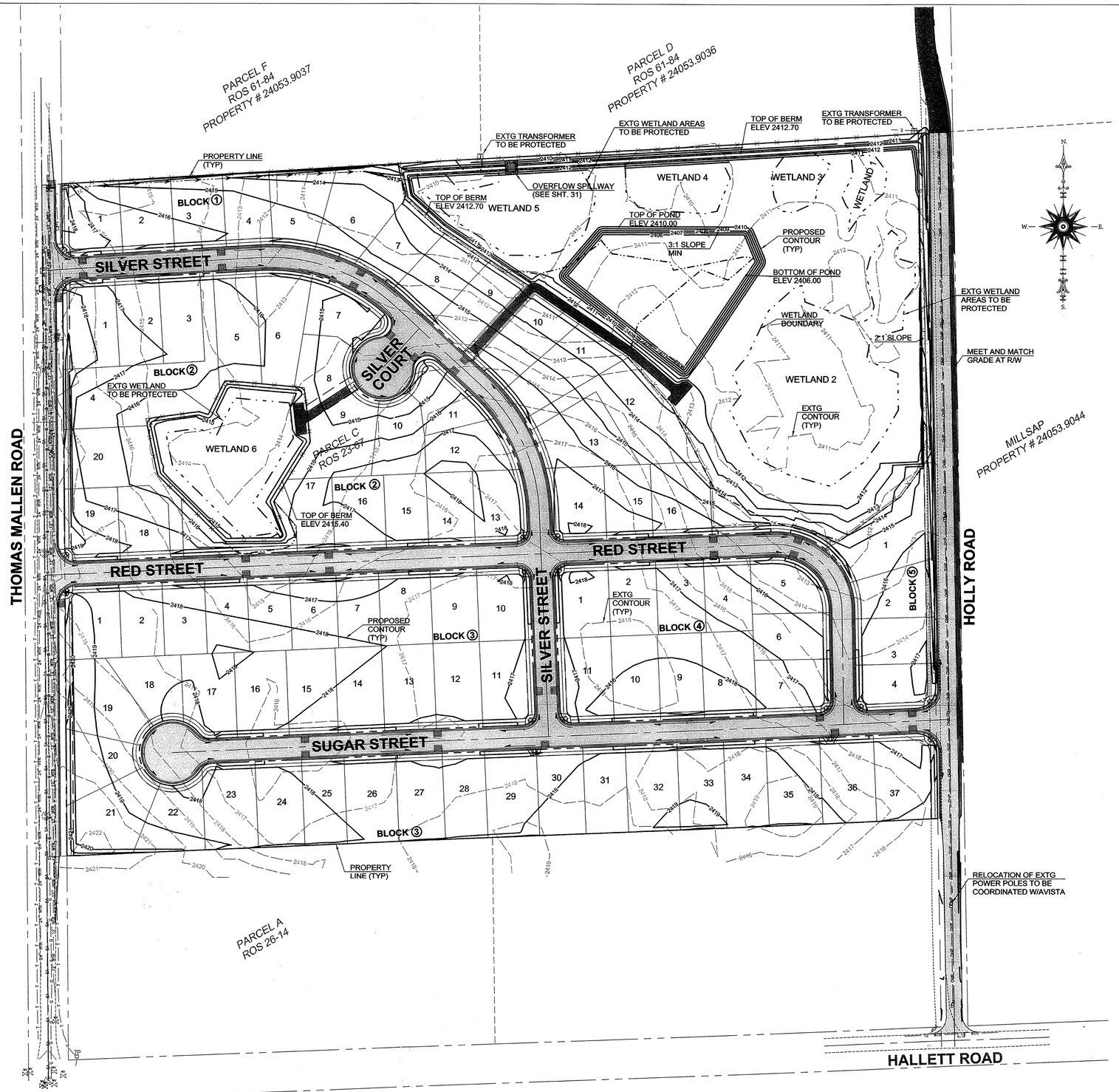
LAST PROJECT BY		DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: EROSION CONTROL DETAILS
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: DETAILS
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

P-1980 Eng Road Drainage



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

EXTG LINETYPE LEGEND	
Extg Sanitary Sewer Pipe	—— SA —— SA —— SA ——
Extg 12" Water Pipe	—— 12" WTR —— 12" WTR ——
Extg 24" Water Pipe	—— 24" WTR —— 24" WTR ——
Extg Electric Line	—— E —— E —— E —— E ——
Extg Gas Line	—— G —— G —— G —— G ——
Extg Over Head Power Line	—— OHP —— OHP —— OHP ——
Extg Telephone Line	—— T —— T —— T —— T ——

PROJECT APPLICANT
Thomas Brennenstuhl 6/26/07
AHO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(306) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38322
REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

5/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=80'
VERTICAL PROFILE ONLY N/A
SCALE

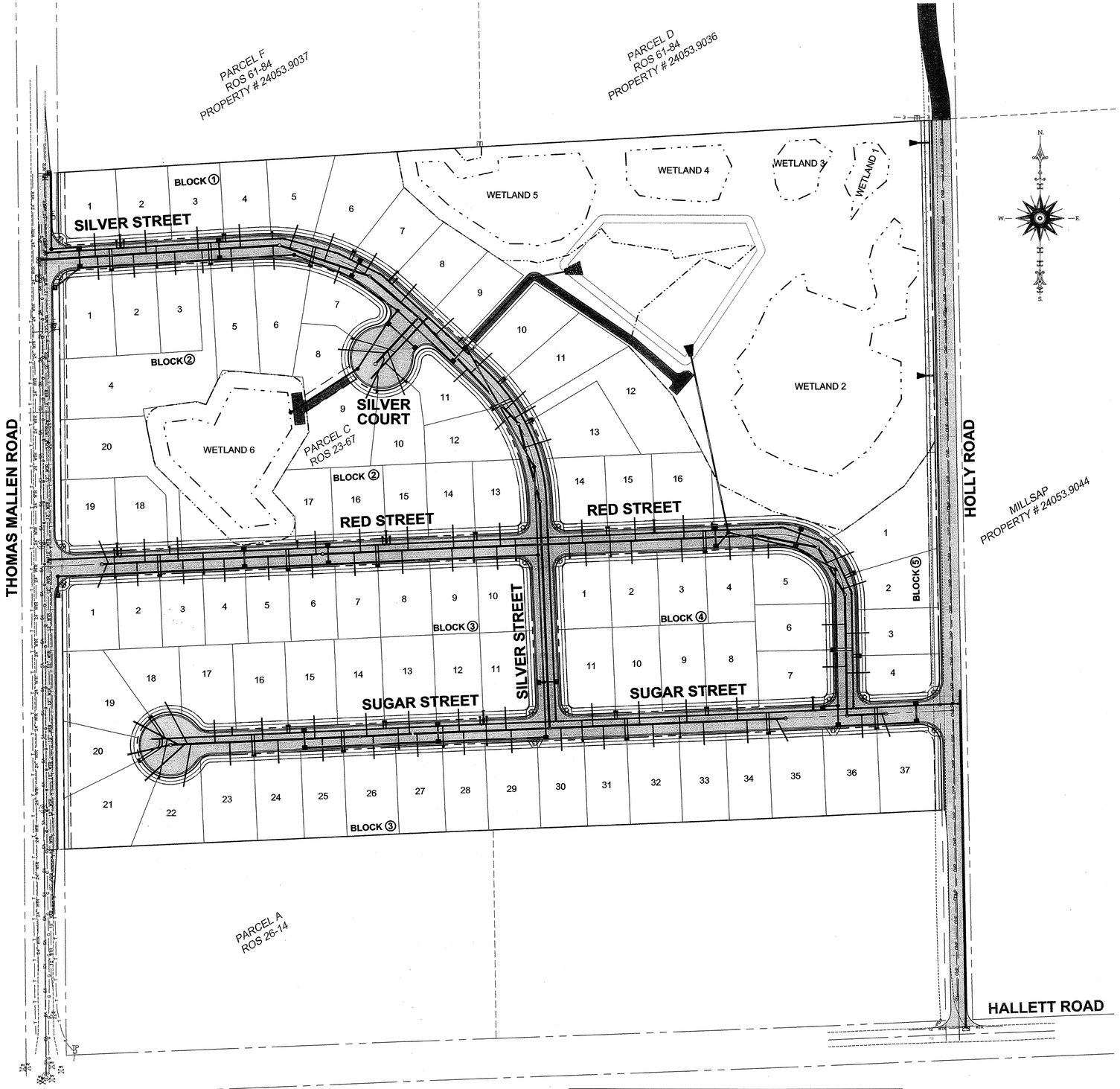
CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

	LAST PROJECT BY	DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: GRADING PLAN
TYPE OF IMPROVEMENT: GRADING
CITY PROJECT NUMBER | CITY PLAN NUMBER
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
EFN:

P-1980 Eng Road Drainage



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

HATCHING LEGEND

- PROPOSED ASPHALT CONCRETE
- PROPOSED CEMENT CONCRETE

SYMBOL LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING WATER VALVE
- EXISTING POWER POLE
- PROPOSED CAP
- PROPOSED CATCH BASIN
- PROPOSED STORM MH
- PROPOSED SANITARY MANHOLE
- PROPOSED 2" BLOW OFF ASS'Y
- PROPOSED CROSS
- PROPOSED WATER METER
- PROPOSED VALVE
- PROPOSED BEND TEE W/VALVE
- PROPOSED BEND TEE
- PROPOSED 45° BEND
- PROPOSED 22½° BEND
- PROPOSED FIRE HYDRANT

EXTG LINETYPE LEGEND

- EXTG SANITARY SEWER PIPE — SA — SA — SA —
- EXTG 12" WATER PIPE — 12" WTR — 12" WTR —
- EXTG 24" WATER PIPE — 24" WTR — 24" WTR —
- EXTG ELECTRIC LINE — E — E — E — E —
- EXTG GAS LINE — G — G — G — G —
- EXTG OVER HEAD POWER LINE — OHP — OHP — OHP —
- EXTG TELEPHONE LINE — T — T — T — T —

LINETYPE LEGEND

- PROPOSED LOT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED SAWCUT LINE
- PROPOSED EASEMENT
- PROPOSED SANITARY SEWER PIPE
- PROPOSED CURB
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SANITARY LATERAL
- PROPOSED STORM PIPE
- PROPOSED WATER LATERAL
- PROPOSED WATER PIPE

PROJECT APPLICANT

Thomas Brunsmith 6/27/07
AHO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
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JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38322
REGISTERED
PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

6/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD						GRADE ESTABLISHMENTS					

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BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=80'
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

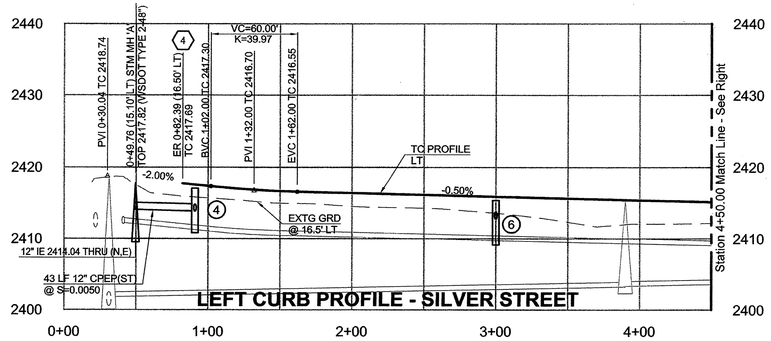
	LAST PROJECT BY	DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

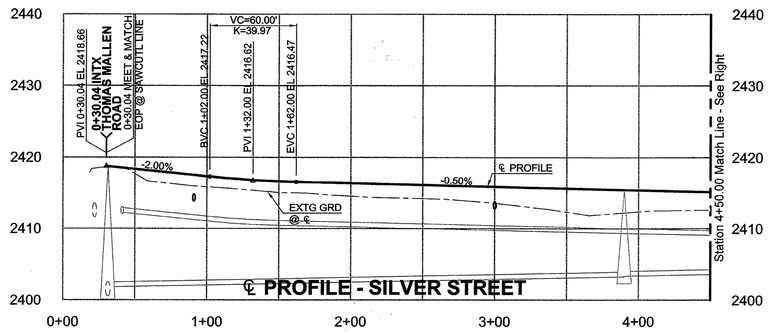
SPOKANE

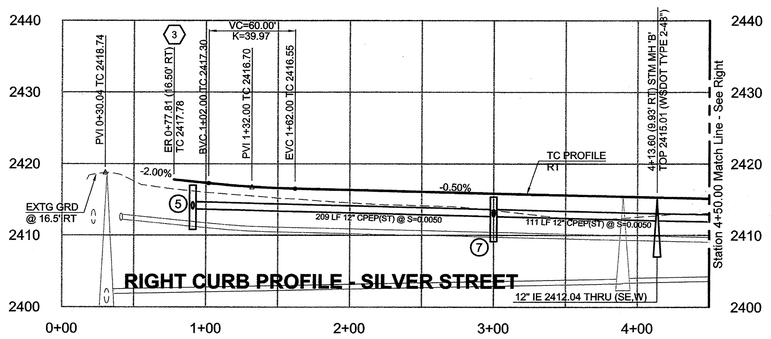
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

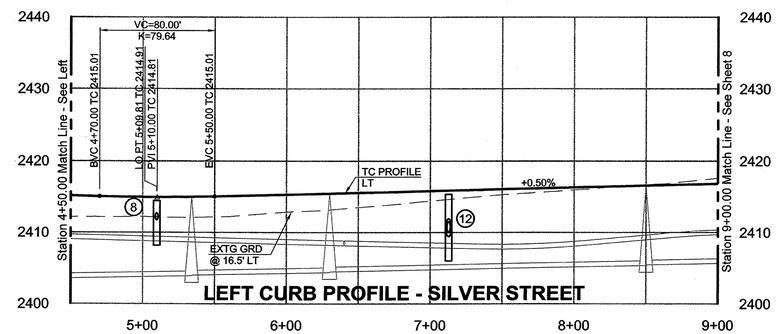
PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: MASTER UTILITY PLAN
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT:
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:
DETAIL 5-24-42

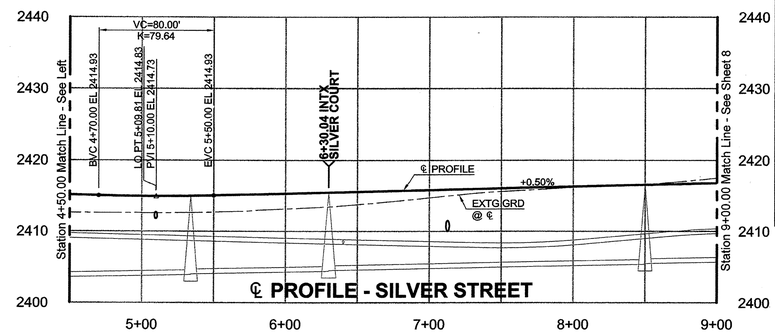
P-1980 Eng Road Drainage

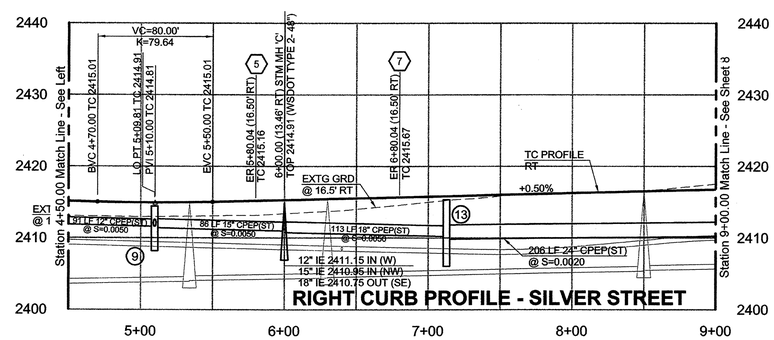












CENTERLINE CURVE DATA				
#	△	R	L	T
1	46°02'00"	275.00	220.95	116.83
2	44°51'07"	275.00	215.27	113.49

CURB RETURN DATA									
#	△	R	L	ELEVATION* (CLOCKWISE)					
				ER	1/4PT	1/2PT	3/4PT	ER	
3	87°10'45"	30.00	45.65	2418.50	2418.42	2418.24	2418.01	2417.78	
4	92°49'15"	30.00	48.60	2417.69	2417.91	2418.09	2418.21	2418.22	
5	90°00'00"	20.00	31.42	2415.16	2415.09	2414.81	2414.54	2414.50	
7	90°00'00"	20.00	31.42	2414.50	2414.59	2415.03	2415.49	2415.67	

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	FRAME TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
4	0+91.00 (16.5' LT)	1	1	1	2417.02	2413.82	12 in.	2413.82	12 in.	0.50%	31 ft.
5	0+91.00 (16.5' RT)	2-48"	1	1	2417.02	2413.66	12 in.	2413.66	12 in.	0.50%	209 ft.
6	3+00.00 (16.5' LT)	1	1	1	2415.36	-	-	2412.76	12 in.	0.50%	31 ft.
7	3+00.00 (16.5' RT)	1	1	1	2415.36	2412.60	12 in.	2412.60	12 in.	0.50%	111 ft.
8	5+09.81 (16.5' LT)	1	2	3	2414.41	-	-	2411.74	12	0.50%	31 ft.
9	5+09.81 (16.5' RT)	1	2	3	2414.41	(2) 2411.58	(2) 12 in.	2411.38	15 in.	0.50%	86 ft.
12	7+12.75 (16.5' LT)	2-60"	2	1	2415.33	2410.02 2409.82	18 in. 24 in.	2409.42	30 in.	0.20%	140 ft.
13	7+12.75 (16.5' RT)	2-60"	2	1	2415.33	2410.18	18 in.	2410.18	18 in.	0.52%	31 ft.

EXTG LINETYPE LEGEND	
Extg Sanitary Sewer Pipe	SA SA SA
Extg 12" Water Pipe	12" WTR 12" WTR
Extg 24" Water Pipe	24" WTR 24" WTR
Extg Gas Line	G G G G

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

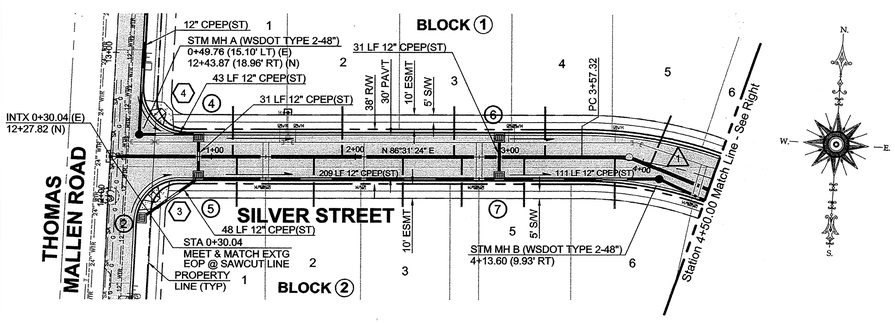
METAL GRATE:

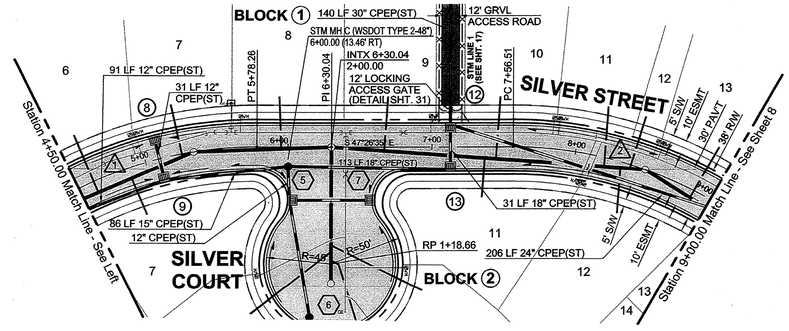
TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

STORM MANHOLES:

ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY STANDARD PLAN B-15





PROJECT APPLICANT	
Thomas Brunovsmith AHO CONSTRUCTION	6/26/07 Date

HOPPER DENNIS JELLISON P.L.L.C.
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JOHN ERIC FETTEROLF
STATE OF WASHINGTON
REG. 34532
PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

7/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N. - U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV.: 2412.35
CBM NO.:
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

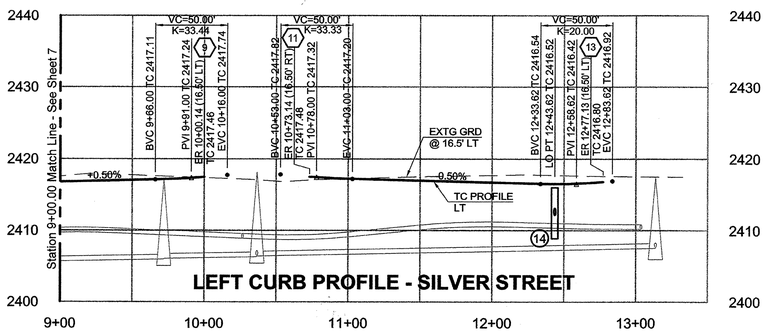
	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

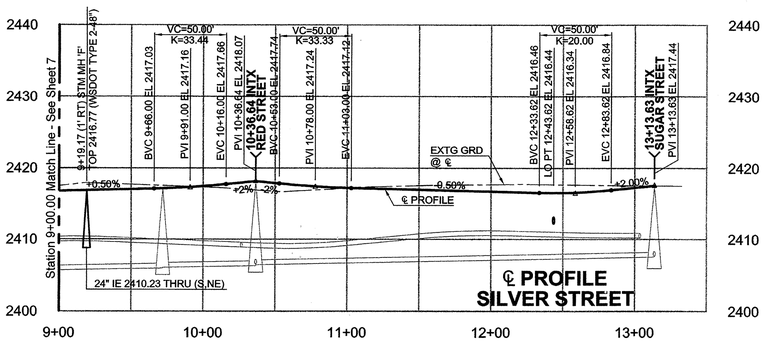
SPOKANE

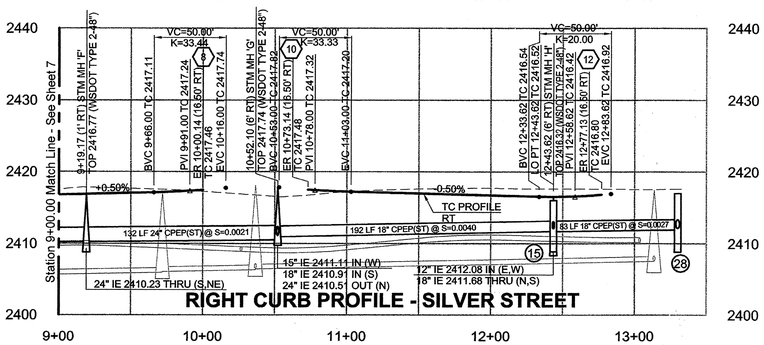
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

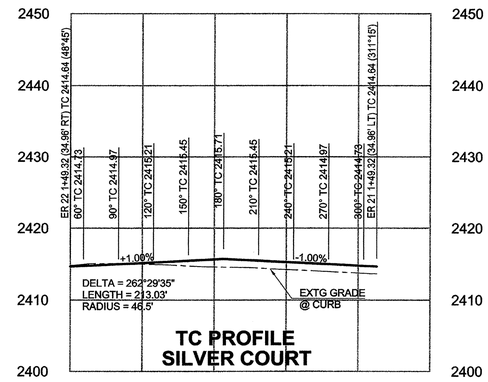
PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: SILVER STREET 0+30.04 TO 9+00.00
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

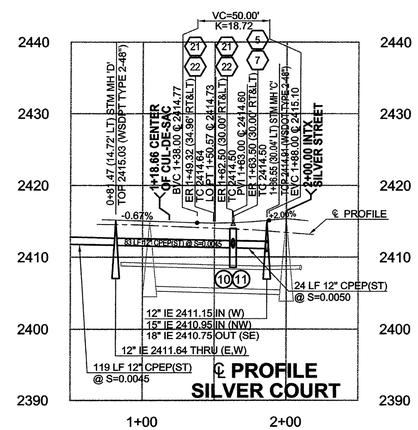
P-1980 Eng Road-Drainage











CENTERLINE CURVE DATA				
#	△	R	L	T
2	44°51'07"	275.00	215.27	113.49

CURB RETURN DATA								
#	△	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
5	90°00'00"	20.00	31.42	2415.16	2415.09	2414.81	2414.54	2414.50
7	90°00'00"	20.00	31.42	2414.50	2414.59	2415.03	2415.49	2415.67
8	90°00'00"	20.00	31.42	2417.46	2417.61	2417.81	2417.97	2417.99
9	90°00'00"	20.00	31.42	2418.10	2418.05	2417.86	2417.62	2417.46
10	90°00'00"	20.00	31.42	2417.99	2417.97	2417.81	2417.62	2417.48
11	90°00'00"	20.00	31.42	2417.48	2417.63	2417.86	2418.06	2418.10
12	90°00'00"	20.00	31.42	2416.80	2416.95	2417.16	2417.31	2417.34
13	90°00'00"	20.00	31.42	2417.70	2417.58	2417.30	2416.99	2416.80

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	FRAME TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
14	12+43.62 (16.5' LT)	1	2	3	2416.02	-	-	2412.19	12 in.	0.50%	22 ft.
15	12+43.62 (16.5' RT)	1	2	3	2416.02	-	-	2412.13	12 in.	0.50%	10 ft.
28	13+30.13 (6' RT)	2-48"	1	1	2416.99	2412.10	15 in.	2411.90	18 in.	0.27%	83 ft.
10	1+63.00 (30' LT)	1	2	3	2414.00	2411.27	12 in.	2411.27	12 in.	0.50%	24 ft.
11	1+63.00 (30' RT)	1	2	3	2414.00	-	-	2411.56	12 in.	0.50%	58 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

METAL GRATE:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

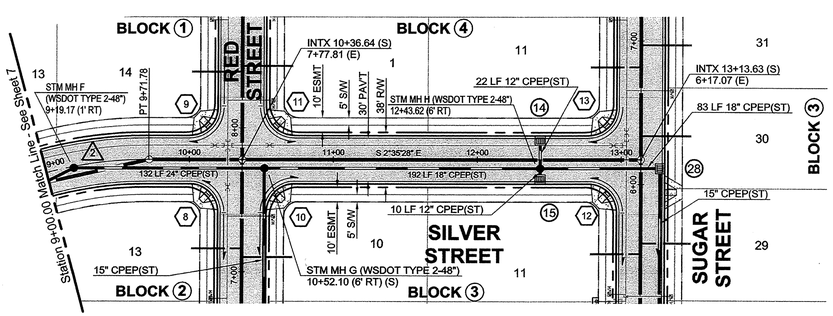
STORM MANHOLES:

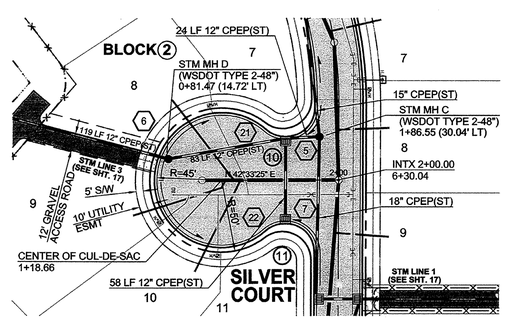
ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

Cul-De-Sac Data For Silver Street					
#	Summary		Location	Angle Clockwise	T.C. Elev
22	△	41°14'48"	1+62.50 (30' RT)	ER RT	2414.50
	R	20.00	1+55.46 (31.28' RT)	MID RT	2414.55
	L	14.40	1+49.32 (34.96' RT)	PRC RT	2414.64
6	△	262°29'35"	1+41.91 (40.27' RT)	60°	2414.73
	R	46.50	1+18.66 (46.50' RT)	90°	2414.97
	L	213.03	0+95.41 (40.27' RT)	120°	2415.21
			0+78.39 (23.25' RT)	150°	2415.45
			0+72.16	180°	2415.71
			0+78.39 (23.25' LT)	210°	2415.45
			0+95.41 (40.27' LT)	240°	2415.21
			1+18.66 (46.50' LT)	270°	2414.97
			1+41.91 (40.27' LT)	300°	2414.73
21	△	41°14'48"	1+49.32 (34.96' LT)	PRC LT	2414.64
	R	20.00	1+55.46 (31.28' LT)	MID LT	2414.55
	L	14.40	1+62.50 (30' LT)	ER LT	2414.50
			1+18.66	RP	FG=2414.90

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION





PROJECT APPLICANT	
AHO CONSTRUCTION	6/26/07 Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(206) 695-3488
FAX (509) 547-5129
Internet : www.hdjengineers.com

JOHN ERIC FETTERHOFF — STATE OF WASHINGTON — 18327 — REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

8/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N.	U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD								GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) - (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

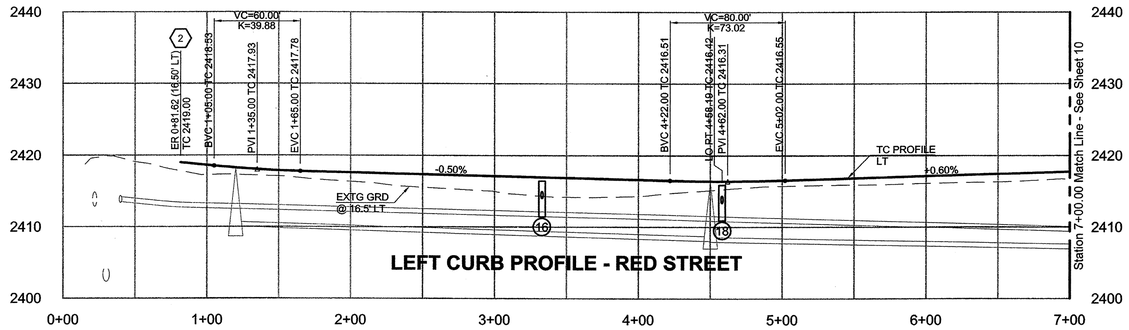
	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

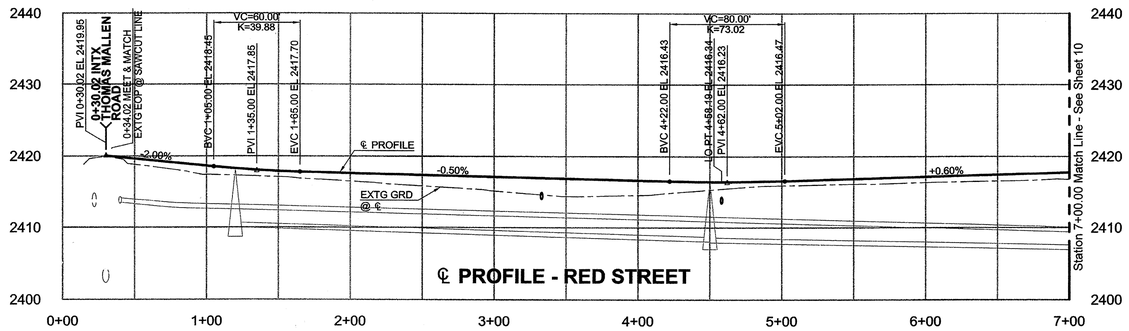
SPOKANE

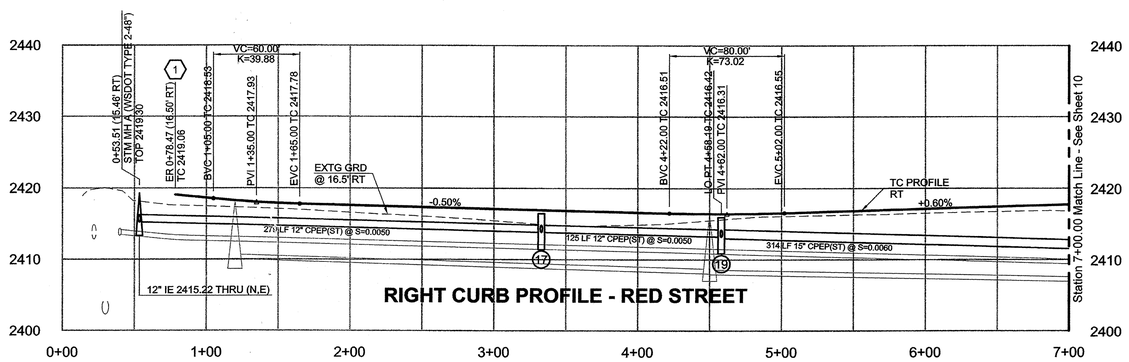
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

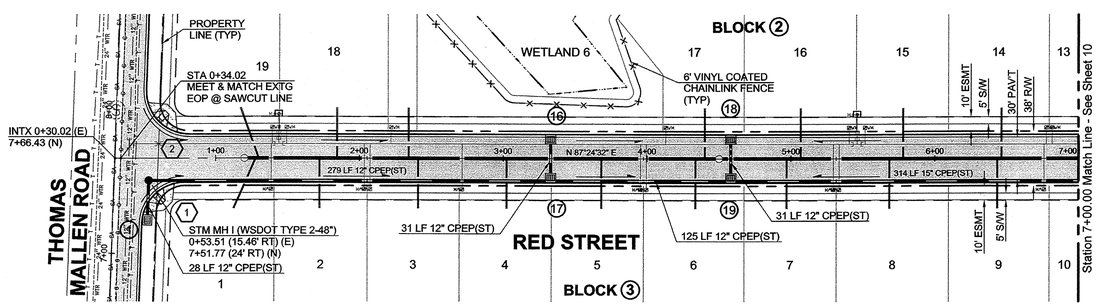
PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: SILVER STREET/SILVER COURT
9+00.00 TO 13+13.63/1+18.66 TO 2+00.00
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

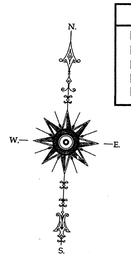
P-1980 Eng Road Drainage











CURB RETURN DATA

#	Δ	R	L	ELEVATION* (CLOCKWISE) ER	1/4PT	1/2PT	3/4PT	ER
1	88°03'53"	30.00	46.11	2420.08	2419.95	2419.66	2419.33	2419.06
2	91°56'07"	30.00	48.14	2419.00	2419.24	2419.48	2419.65	2419.67

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE

#	LOCATION	CB TYPE	FRAME TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
1	0+52.52 (43.21' RT)	1	1	1	2418.87	-	-	2416.34	12 in.	4.00%	28 ft.
16	3+33.00 (16.5' LT)	1	1	1	2416.45	-	-	2413.98	12 in.	0.50%	31 ft.
17	3+33.00 (16.5' RT)	1	1	1	2416.45	(2) 2413.82	(2) 12	2413.82	12 in.	0.50%	125 ft.
18	4+58.19 (16.5' LT)	1	2	3	2415.92	-	-	2413.35	12 in.	0.50%	31 ft.
19	4+58.19 (16.5' RT)	1	2	3	2415.92	(2) 2413.19	(2) 12	2412.99	15 in.	0.60%	314 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

METAL GRATE:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

STORM MANHOLES:

ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

EXTG LINETYPE LEGEND

Extg Sanitary Sewer Pipe	SA SA SA
Extg 12" Water Pipe	12" WTR 12" WTR
Extg 24" Water Pipe	24" WTR 24" WTR
Extg Gas Line	G G G G
Extg Telephone Line	T T T T

PROJECT APPLICANT

AHO CONSTRUCTION — Date 6/26/07

JOHN ERIC FETTEROLF — STATE OF WASHINGTON — 38321 — REGISTERED PROFESSIONAL ENGINEER — 6/27/07
EXPIRES: JAN 27, 2009

HOPPER DENNIS JELLISON P.L.L.C.
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9/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. - U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995		
LAST PROJECT BY		DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE

SHEET LIMITS: RED STREET 0+30.02 TO 7+00.00

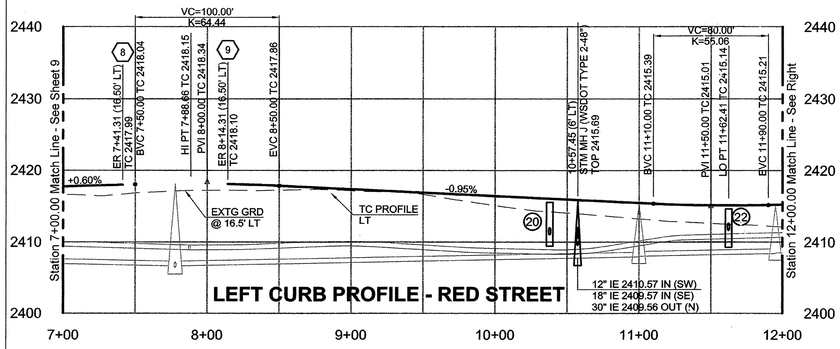
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

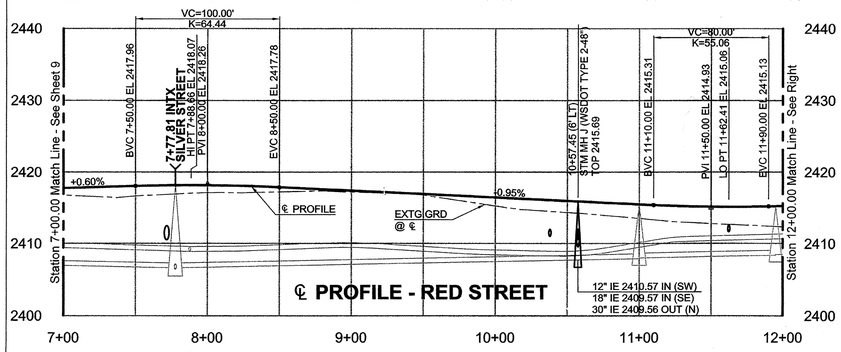
TYPE OF IMPROVEMENT: STREET & STORM

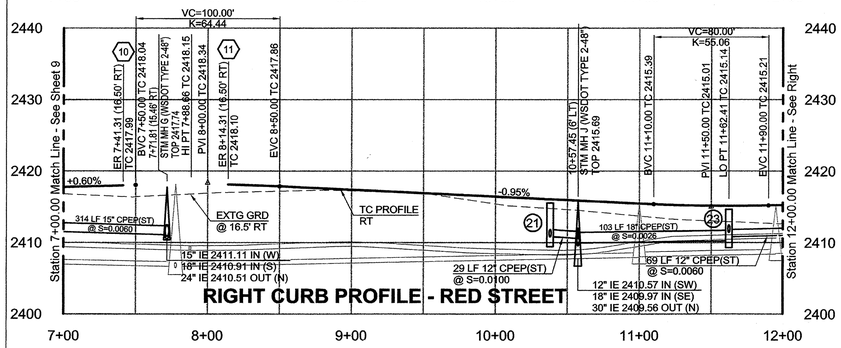
CITY PROJECT NUMBER | CITY PLAN NUMBER

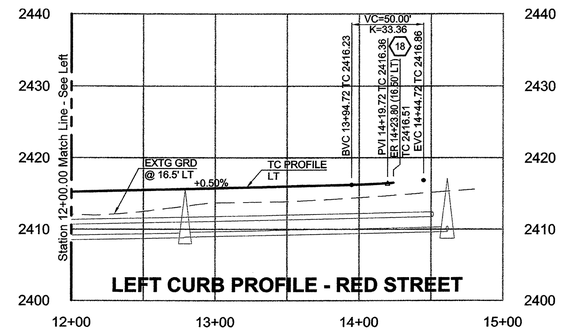
EFN:

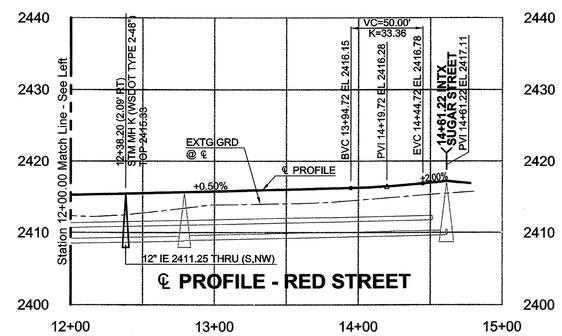
P-1980 Eng Road Drainage

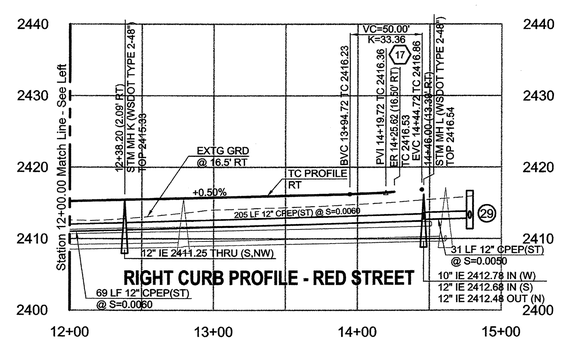


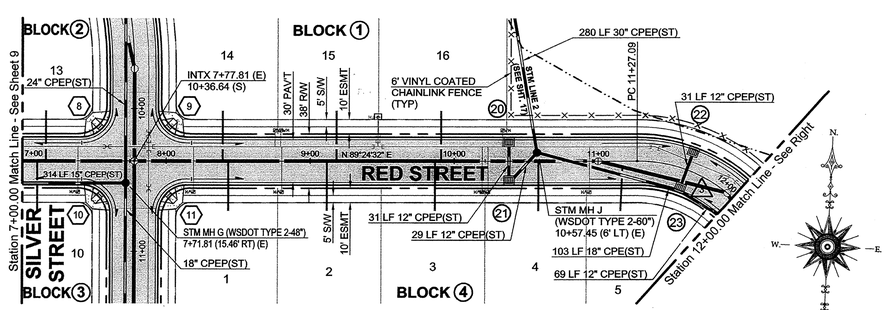


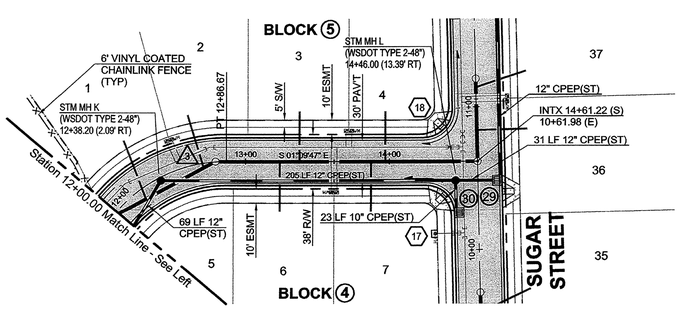


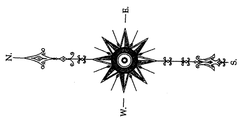












CENTERLINE CURVE DATA				
#	△	R	L	T
3	91°25'41"	100.00	159.57	102.52

CURB RETURN DATA									
#	△	R	L	ELEVATION* (CLOCKWISE)					
				ER	1/4PT	1/2PT	3/4PT	ER
8	90°00'00"	20.00	31.42	2417.46	2417.61	2417.81	2417.97	2417.99
9	90°00'00"	20.00	31.42	2418.10	2418.05	2417.86	2417.62	2417.46
10	90°00'00"	20.00	31.42	2417.99	2417.97	2417.81	2417.62	2417.48
11	90°00'00"	20.00	31.42	2417.48	2417.63	2417.86	2418.06	2418.10
17	88°34'19"	20.00	30.92	2416.53	2416.70	2417.00	2417.28	2417.40
18	91°25'41"	20.00	31.91	2416.97	2416.96	2416.82	2416.64	2416.51

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	FRAME TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
20	10+38.00 (16.5' LT)	1	1	1	2415.57	-	-	2411.02	12 in.	0.52%	31 ft.
21	10+38.00 (16.5' RT)	1	1	1	2415.57	2410.86	12 in.	2410.86	12 in.	1.00%	29 ft.
22	11+62.41 (16.5' LT)	1	2	3	2414.64	-	-	2412.14	12 in.	0.50%	31 ft.
23	11+62.41 (16.5' RT)	2-48"	2	3	2414.64	2411.98 (NE) 2410.84 (SE)	12 in. 12 in.	2410.24	18 in.	0.26%	103 ft.
29	14+78.06 (13.37' RT)	1	1	1	2416.77	2412.84	12 in.	2412.84	12 in.	0.50%	31 ft.
30	14+45.61 (36' RT)	1	1	1	2416.90	-	-	2412.90	10 in.	0.50%	23 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

METAL GRATE:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

STORM MANHOLES:

ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT

ARO CONSTRUCTION — Date 6/26/07

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
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Pasco, WA 99301
(509) 547-3119
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JOHN ERIC FETTEROLF — STATE OF WASHINGTON — 36852 — REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

10/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

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BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

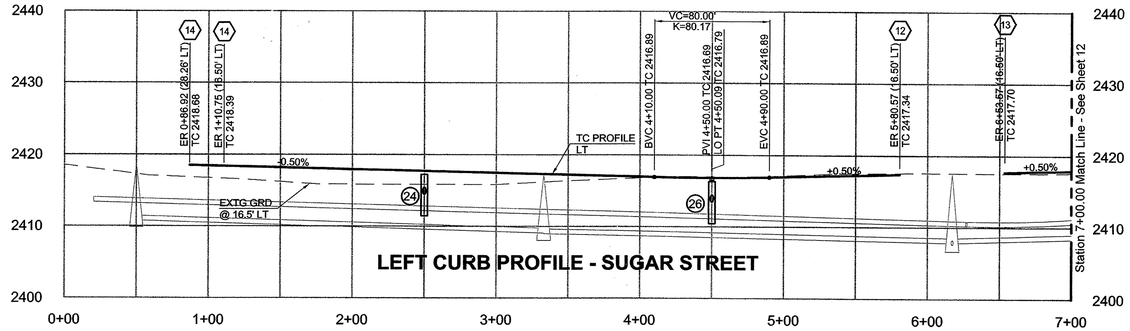
	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

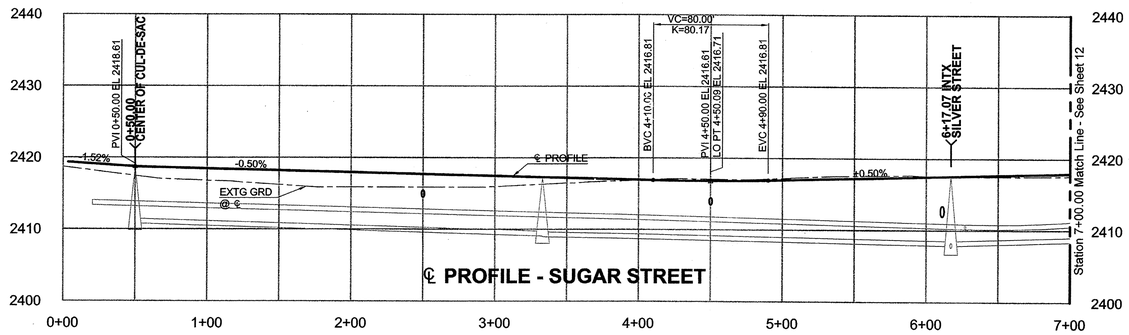
SPOKANE

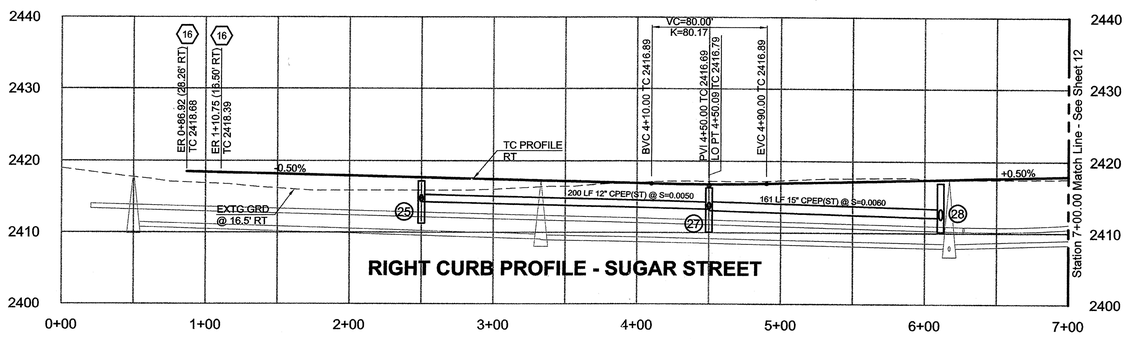
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

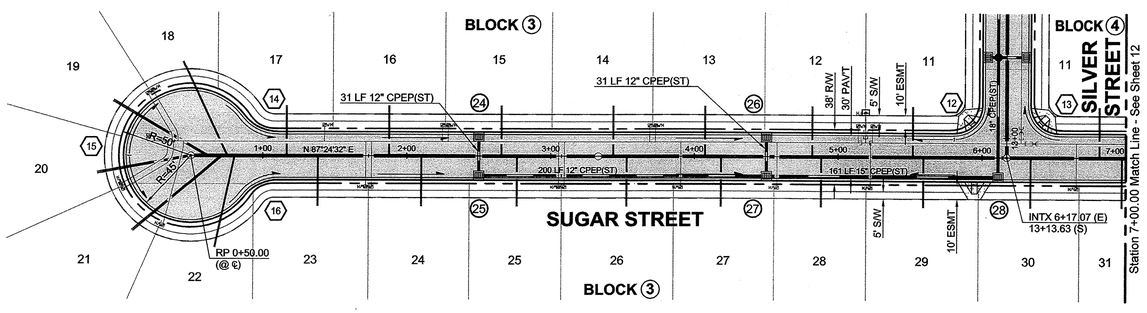
PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: RED STREET 7+00.00 TO 14+61.22
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
EFN:

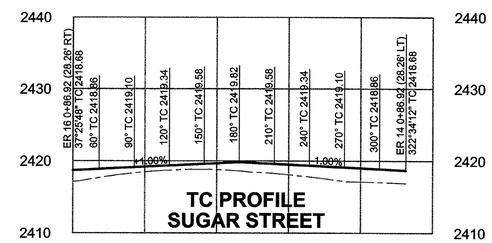
P-1980 Erg Road Drainage











CURB RETURN DATA								
#	△	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
12	90°00'00"	20.00	31.42	2416.80	2416.95	2417.16	2417.31	2417.34
13	90°00'00"	20.00	31.42	2417.70	2417.58	2417.30	2416.99	2416.80

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

Cul-De-Sac Data Sugar Street					
#	Summary		Location	Angle Clockwise	T.C. Elev
16	△	52°33'59"	1+10.75 (16.50' RT)	ER RT	2418.39
	R	30.00	0+97.46 (19.60' RT)	MID RT	2418.52
	L	27.52	0+86.92 (28.26' RT)	PRC RT	2418.68
15	△	285°07'57"	0+73.25 (40.27' RT)	60°	2418.86
	R	46.50	0+50.00 (46.50' RT)	90°	2419.10
	L	231.41	0+26.75 (40.27' RT)	120°	2419.34
			0+09.73 (23.25' RT)	150°	2419.58
			0+03.50	180°	2419.82
			0+09.73 (23.25' LT)	210°	2419.58
			0+26.75 (40.27' LT)	240°	2419.34
			0+50.00 (46.50' LT)	270°	2419.10
			0+73.25 (40.27' LT)	300°	2418.86
14	△	52°33'59"	0+86.92 (28.26 LT)	PRC LT	2418.68
	R	30.00	0+97.46 (19.60' LT)	MID LT	2418.52
	L	27.52	1+10.75 (16.50' LT)	ER LT	2418.39
			0+50.00	RP	FG 2418.61

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	FRAME TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
24	2+50.00 (16.5' LT)	1	1	1	2417.19	-	-	2414.43	12 in.	0.50%	31 ft.
25	2+50.00 (16.5' RT)	1	1	1	2417.19	2414.27	12 in.	2414.27	12 in.	0.50%	200 ft.
26	4+50.09 (16.5' LT)	1	2	3	2416.29	-	-	2413.43	12 in.	0.50%	31 ft.
27	4+50.09 (16.5' RT)	1	2	3	2416.29	(2) 2413.27	12 in.	2413.07	15 in.	0.60%	161 ft.
28	6+11.07 (16.5' RT)	2-48"	1	1	2416.99	2412.10	15 in.	2411.90	18 in.	0.27%	83 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

METAL GRATE:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

STORM MANHOLES:

ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

PROJECT APPLICANT

Thomas Brunsmann — 6/26/07
AHO CONSTRUCTION — Date

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6112 Bucklin Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(306) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF — STATE OF WASHINGTON — 28522 — REGISTERED PROFESSIONAL ENGINEER — 6/27/07
EXPIRES: JAN 27, 2009

11/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV.: 2412.35
CBM NO.:
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
SCALE: HORIZONTAL 1"=50'; VERTICAL PROFILE ONLY 1"=10'

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

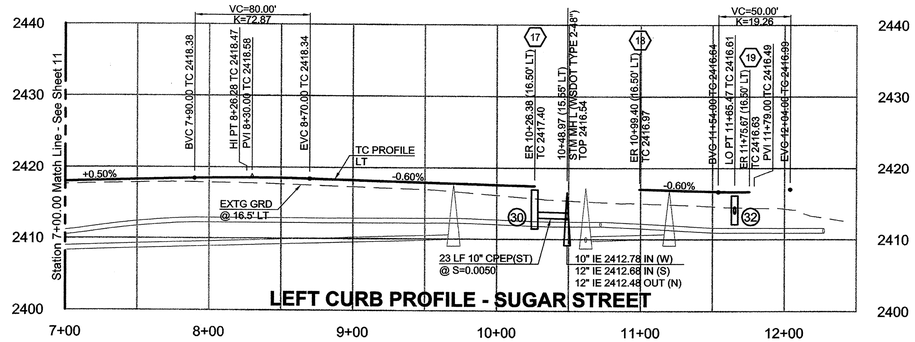
	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

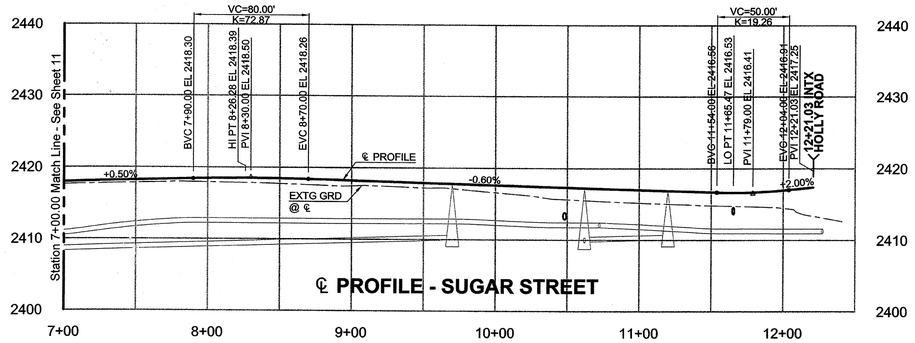
SPOKANE

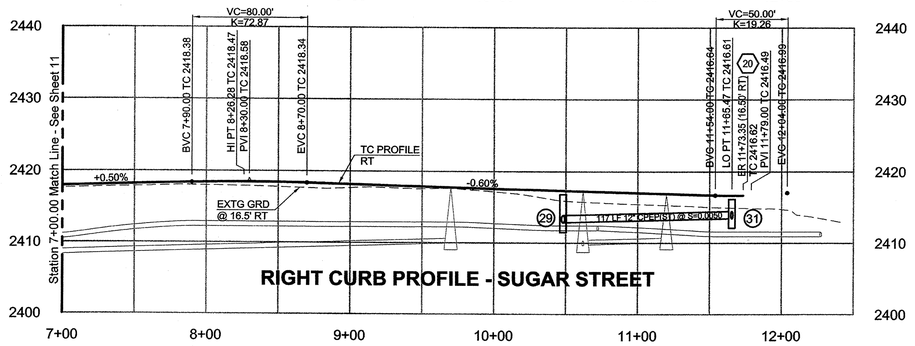
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

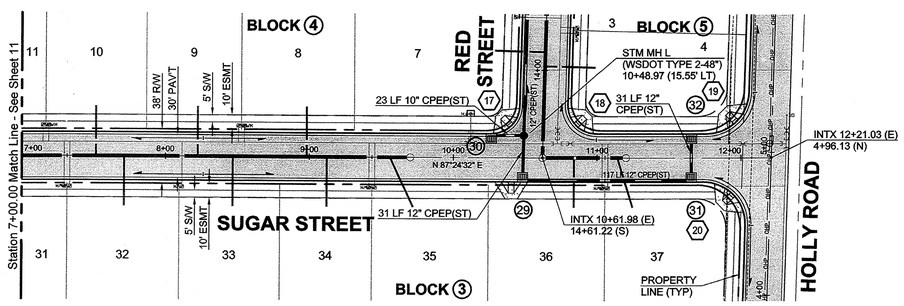
PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: SUGAR STREET 0+50.00 TO 7+00.00
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
EFN:

P-1980 Eng Road Drainage









CURB RETURN DATA								
#	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
17	88°34'19"	20.00	30.92	2416.53	2416.70	2417.00	2417.28	2417.40
18	91°25'41"	20.00	31.91	2416.97	2416.96	2416.82	2416.64	2416.51
19	88°34'19"	30.00	46.38	2417.30	2417.25	2417.02	2416.76	2416.63
20	91°25'41"	30.00	47.87	2416.62	2416.73	2416.95	2417.13	2417.14

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	FRAME TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
29	10+48.19 (16.5' RT)	1	1	1	2416.77	2412.84	12 in.	2412.84	12 in.	0.50%	31 ft.
30	10+26.38 (16.5' LT)	1	1	1	2416.90	-	-	2412.90	10 in.	0.50%	23 ft.
31	11+65.47 (16.5' RT)	1	2	3	2416.11	2413.43	12 in.	2413.43	12 in.	0.50%	117 ft.
32	11+65.47 (16.5' LT)	1	2	3	2416.11	-	-	2412.59	12 in.	0.50%	31 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

METAL GRATE:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

STORM MANHOLES:

ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/09
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

EXTG LINETYPE LEGEND	
Extg Over Head Power Line	—— OHP —— OHP —— OHP ——

PROJECT APPLICANT

Thomas Brewsmith 6/26/07
AHO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
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(800) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38322
REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

12/33

DATE	BY	PROJ.	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE
IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

NAVD88 DATUM

HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE

SHEET LIMITS: SUGAR STREET 7+00.00 TO 12+21.03

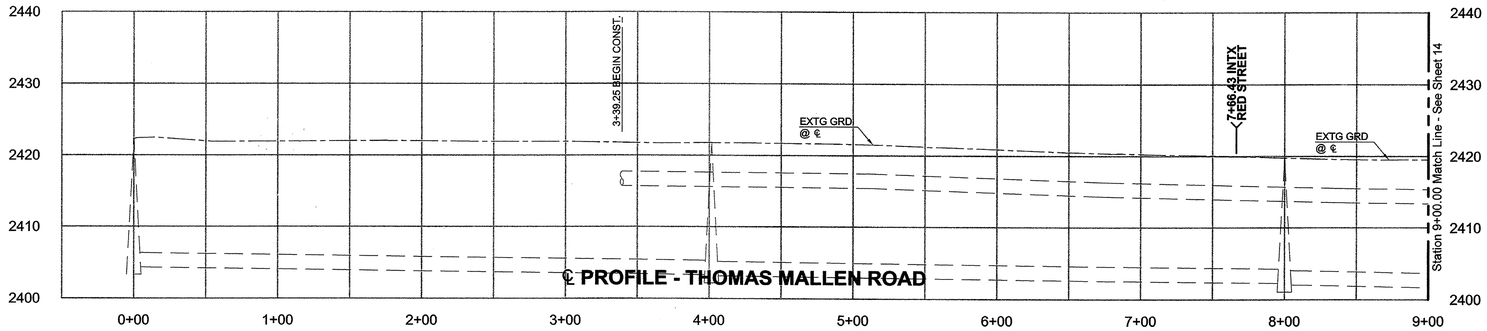
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

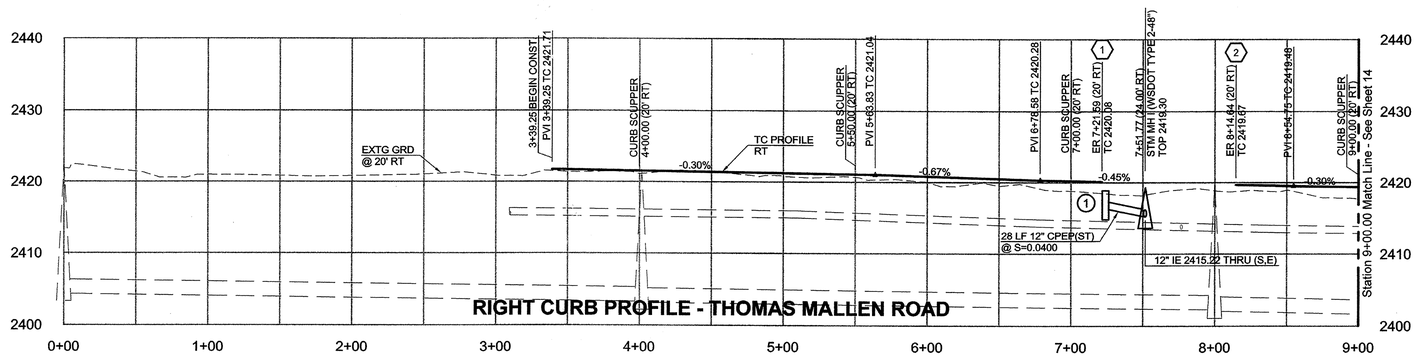
TYPE OF IMPROVEMENT: STREET & STORM

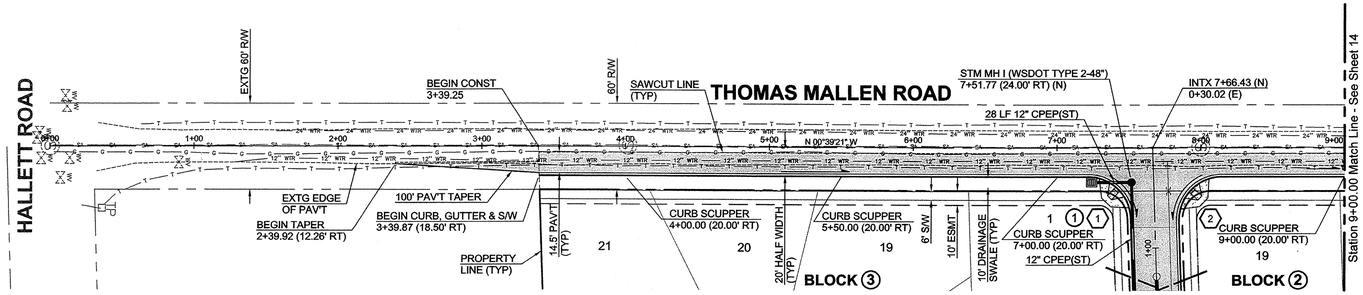
CITY PROJECT NUMBER | CITY PLAN NUMBER

DFN:

P-1980 Eng Road Drainage







CURB RETURN DATA								
#	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
1	88°03'53"	30.00	46.11	2420.08	2419.95	2419.66	2419.33	2419.06
2	91°56'07"	30.00	48.14	2419.00	2419.24	2419.48	2419.65	2419.67

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	INLT TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
1	7+24.00 (24' RT)	1	1	1	2418.87	-	-	2416.34	12 in.	4.00%	28 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

METAL GRATE:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
TYPE 3 : PER SPOKANE COUNTY STANDARD PLAN B-14

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ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
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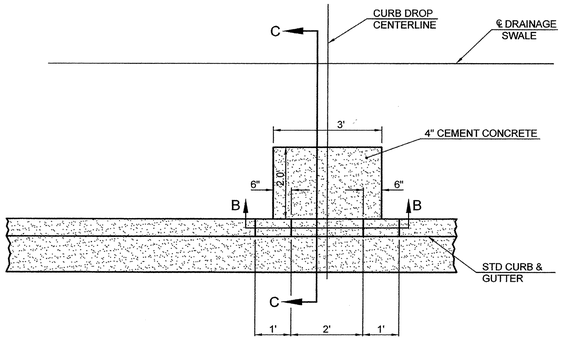
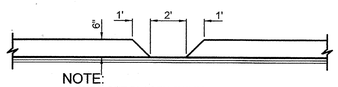
ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

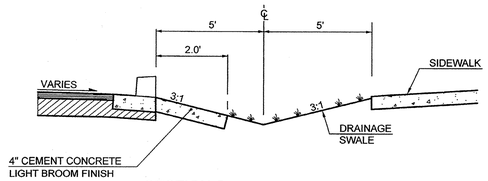


CURB SCUPPER DETAIL
NTS

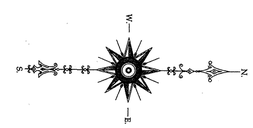


NOTE:
CURB CUT PLACEMENT TO OCCUR WHERE INDICATED IN PLAN

SECTION B



SECTION C



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

EXTG LINETYPE LEGEND	
Extg Sanitary Sewer Pipe	SA
Extg 12" Water Pipe	12" WTR
Extg 24" Water Pipe	24" WTR
Extg Gas Line	G
Extg Over Head Power Line	OHP
Extg Telephone Line	T

PROJECT APPLICANT

AHO CONSTRUCTION — Date 6/26/07

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(306) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTERHOFF — STATE OF WASHINGTON — 38322 — REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

13/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N.	U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD								GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

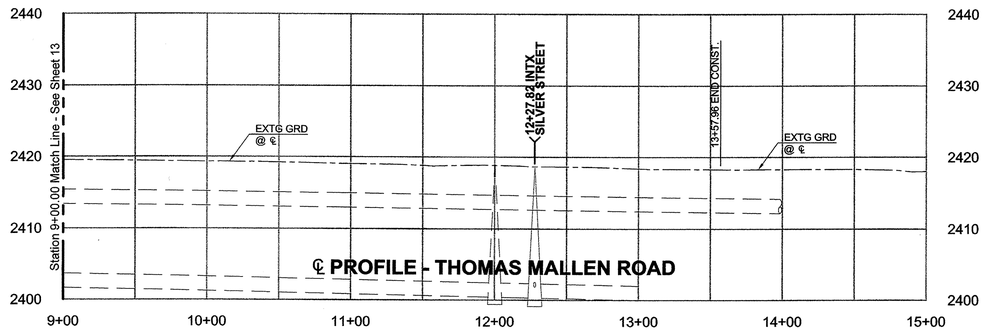
LAST PROJECT BY		DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

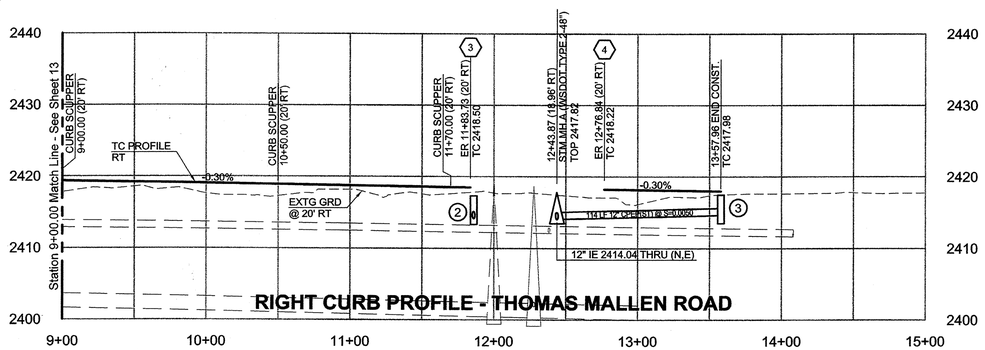
SPOKANE

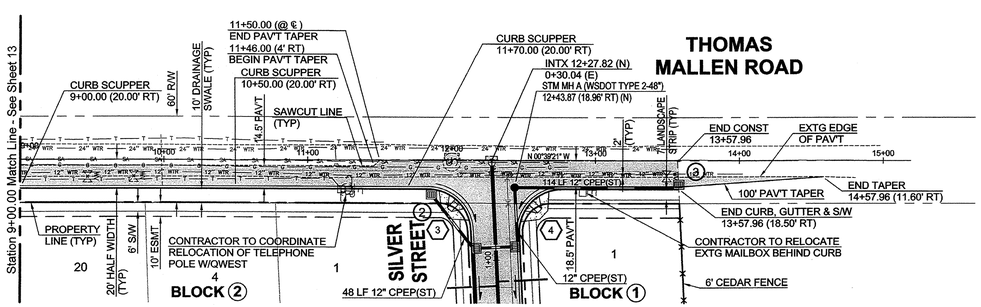
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: THOMAS MALLEN ROAD 0+00.00 TO 9+00.00
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

P.1980 Eng Road Drainage







CURB RETURN DATA								
#	△	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
3	87°10'45"	30.00	45.65	2418.50	2418.42	2418.24	2418.01	2417.78
4	92°49'15"	30.00	48.60	2417.69	2417.91	2418.09	2418.21	2418.22

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER INLET TABLE											
#	LOCATION	CB TYPE	INLT TYPE	GRATE TYPE	GRATE ELEV	INLET ELEV	INLET SIZE	OUTLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
2	11+86.00 (24' RT)	1	1	1	2417.32	-	-	2414.14	12 in.	1.00%	48 ft.
3	13+57.96 (20' RT)	1	1	1	2417.47	-	-	2414.61	12 in.	0.50%	114 ft.

CATCH BASINS:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-4
TYPE 2 : PER WSDOT STANDARD PLAN B-10.200

METAL FRAME:

TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-10
TYPE 2 : PER SPOKANE COUNTY STANDARD PLAN B-11

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TYPE 1 : PER SPOKANE COUNTY STANDARD PLAN B-12
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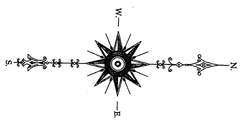
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
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EXTG LINETYPE LEGEND	
Extg Sanitary Sewer Pipe	SA
Extg 12" Water Pipe	12" WTR
Extg 24" Water Pipe	24" WTR
Extg Gas Line	G
Extg Over Head Power Line	OHP
Extg Telephone Line	T

PROJECT APPLICANT

Thomas J. Brownsmith 6/26/07
AHO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
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Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38622
REGISTERED PROFESSIONAL ENGINEER
6/21/07
EXPIRES: JAN 27, 2009

14/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. - U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) - (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL 1"=50'
VERTICAL 1"=10'
PROFILE ONLY
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995		
LAST PROJECT BY		DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

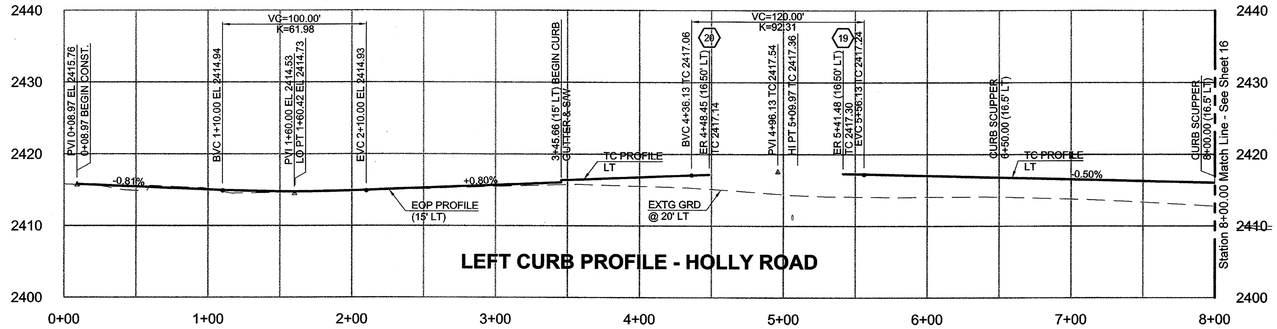
PROJECT NAME: MAPLE TERRACE

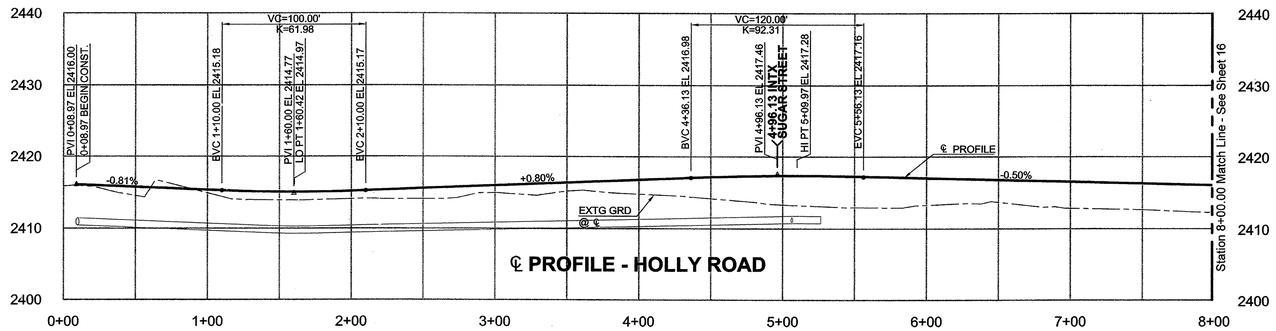
SHEET LIMITS: THOMAS MALLEN ROAD 9+00.00 TO 15+00.00

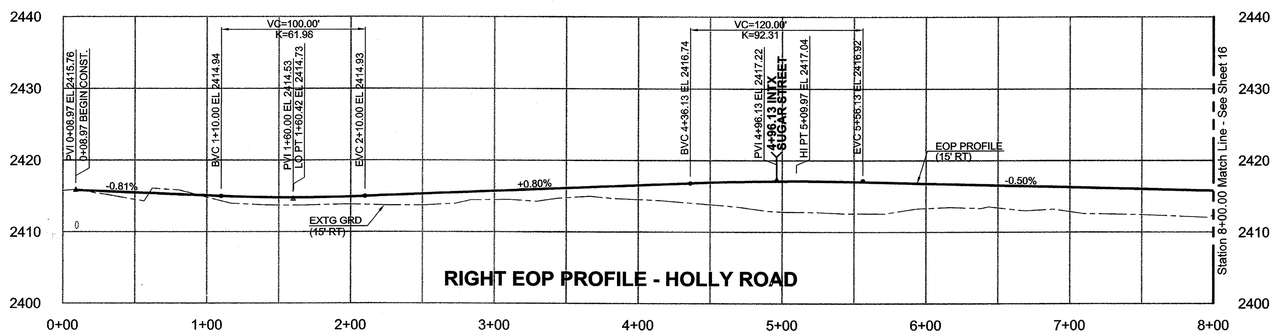
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

P-1980 Eng Road Drainage

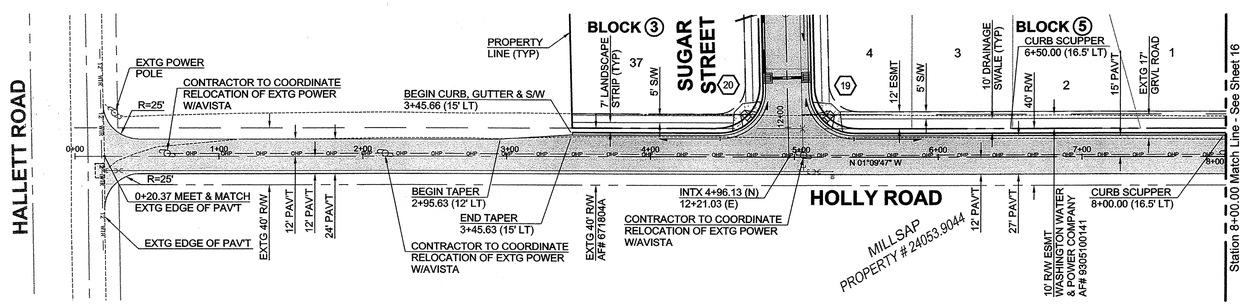


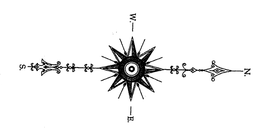




CURB RETURN DATA								
#	△	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
19	88°34'19"	30.00	46.38	2417.30	2417.25	2417.02	2416.76	2416.63
20	91°25'41"	30.00	47.87	2416.62	2416.73	2416.95	2417.13	2417.14

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS





EXTG LINETYPE LEGEND	
Extg Over Head Power Line	— OHP — OHP — OHP —

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT

Thomas Brosnan Smith 6/26/07
AHO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite B
Pasco, WA 99301
(509) 547-5119
(360) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF
STATE OF WASHINGTON
36322
REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

15/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO
REVISIONS				RECORD					

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

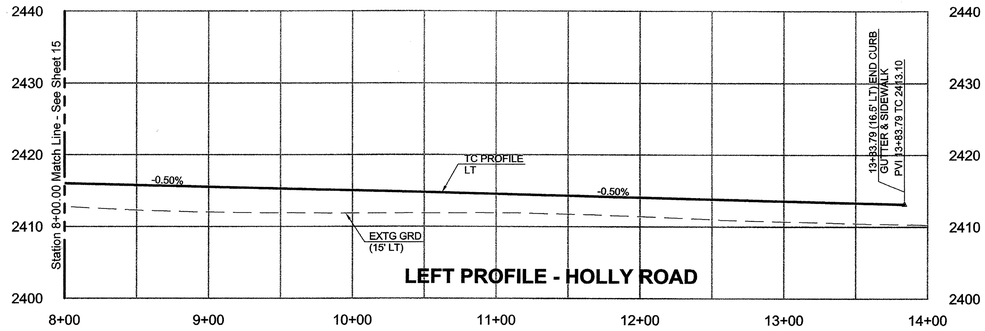
	LAST PROJECT BY	DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

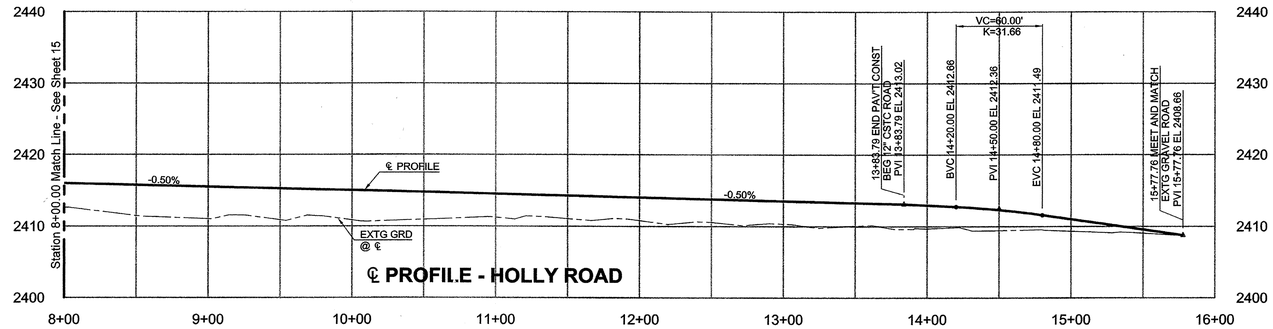
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: HOLLY ROAD 0+00.00 TO 8+00.00
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

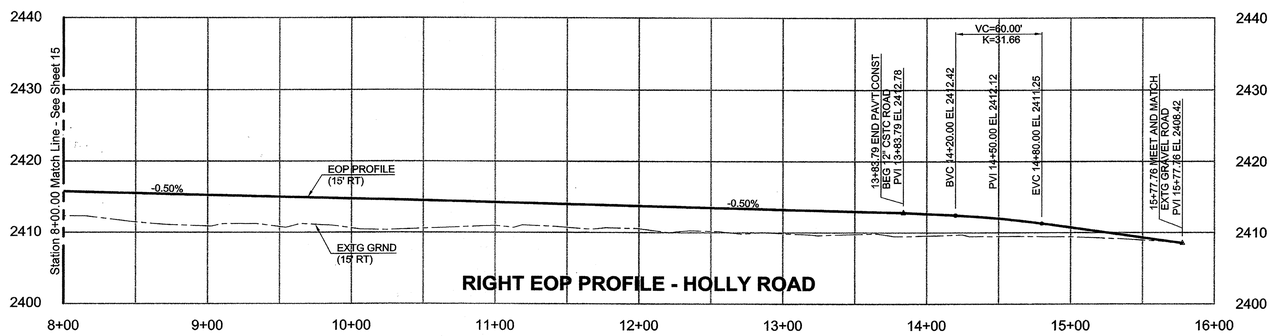
P-1980 Eng Road Drainage



LEFT PROFILE - HOLLY ROAD



℄ PROFILE - HOLLY ROAD



RIGHT EOP PROFILE - HOLLY ROAD

CENTERLINE CURVE DATA				
#	△	R	L	T
4	9°32'57"	238.00	39.67	19.88
5	10°17'39"	512.00	91.99	46.12

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/6/07
ACCEPTANCE EXPIRES: 7/6/09
PROJECT LANE MILES PUBLIC: 0.15
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
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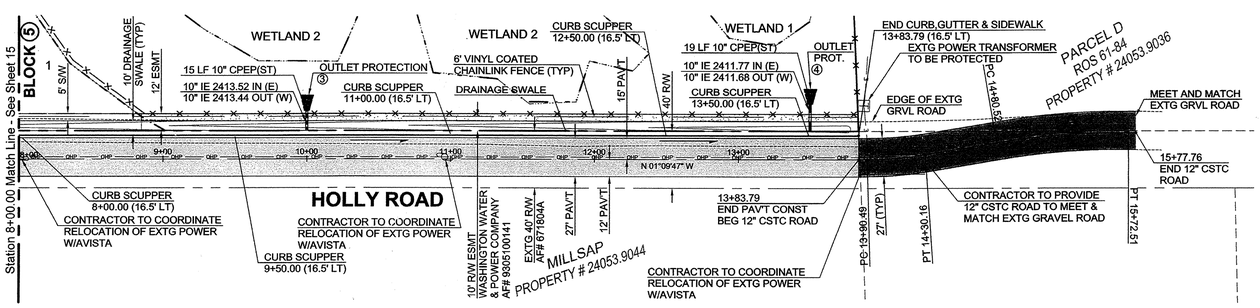
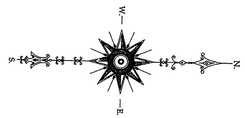


EXTG LINETYPE LEGEND	
Extg Electric Line	— E — E — E — E —
Extg Over Head Power Line	— OHP — OHP — OHP —

PROJECT APPLICANT	
Thomas Brannan Smith AHO CONSTRUCTION	6/26/07 Date



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Internet: www.hdjengineers.com

STEVEN ERIC FETTERHOFF
STATE OF WASHINGTON
38321
REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

16/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO
REVISIONS				RECORD					

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
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NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

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SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

LAST PROJECT BY		DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE

SHEET LIMITS: HOLLY ROAD 8+00.00 TO 14+00.00

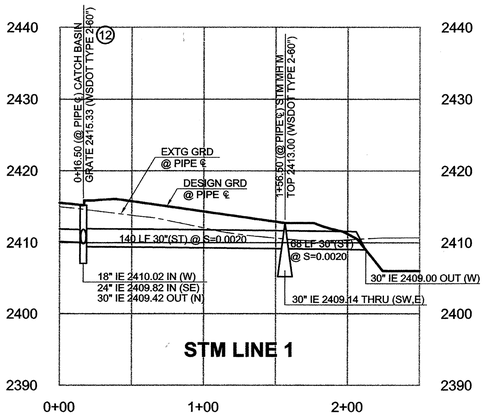
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

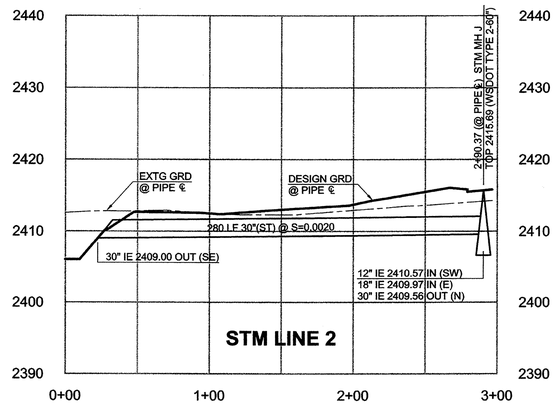
TYPE OF IMPROVEMENT: STREET & STORM

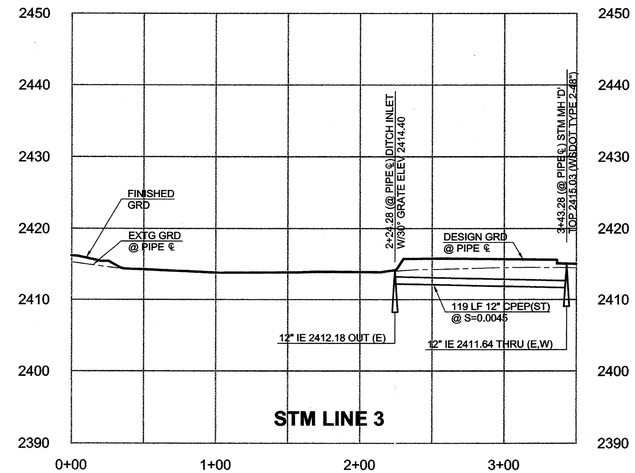
CITY PROJECT NUMBER | CITY PLAN NUMBER

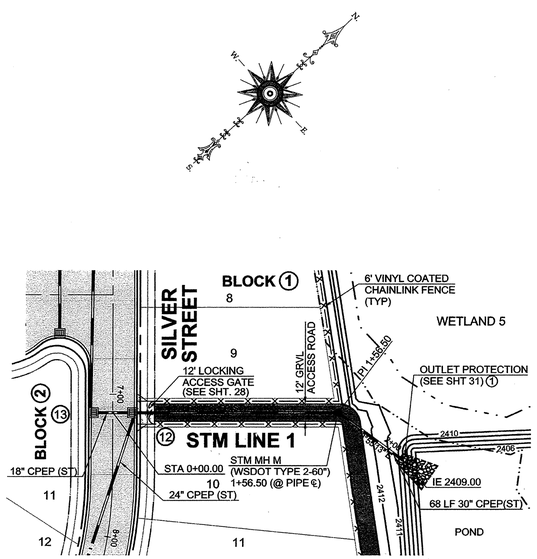
EFN:

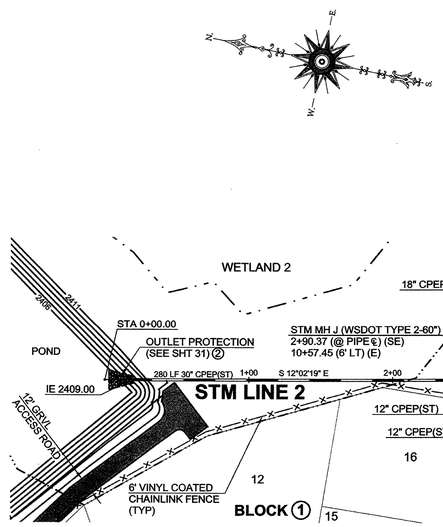
P-1980 Eng Prod Drainage

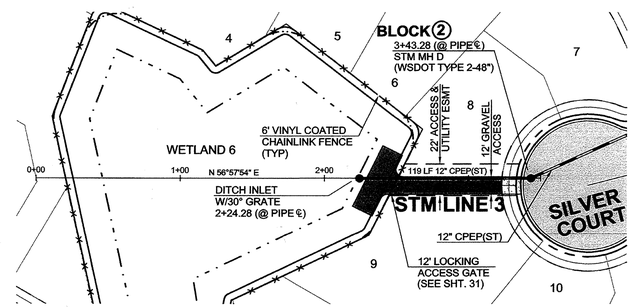












STORM MANHOLES:

ALL MANHOLES SHALL BE WSDOT TYPE 2 STRUCTURES PER WSDOT STANDARD
PLAN B-10.200

ALL MANHOLE SHALL HAVE A TYPE 4 FRAME W/SOLID LID PER SPOKANE COUNTY
STANDARD PLAN B-15

PROJECT APPLICANT

Thomas Brennan Smith 6/26/07
AHO CONSTRUCTION Date

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
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PROJECT LANE MILES PUBLIC: 0.75
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JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38322
REGISTERED
PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

17/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

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CBM NO.
NAVD88 DATUM
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VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

LAST PROJECT BY		DATES
DRAWN:	CDS	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

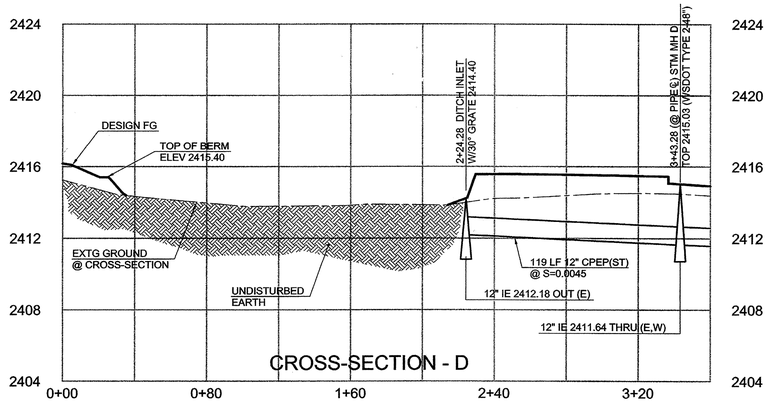
PROJECT NAME: MAPLE TERRACE

SHEET LIMITS:	STM LINE 1	STM LINE 2	STM LINE 3
	0+16.50 TO 2+24.44	0+00.00 TO 2+90.37	0+00.00 TO 3+43.28

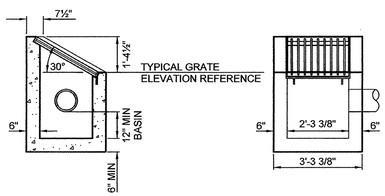
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

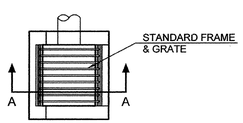
P-1980 Eng Road Drainage



SCALE H: 1"=40'
V: 1"=4'

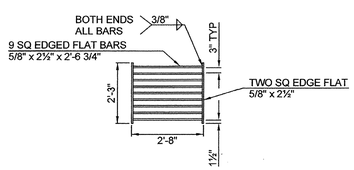


SECTION A-A



Ditch Inlet (typ)

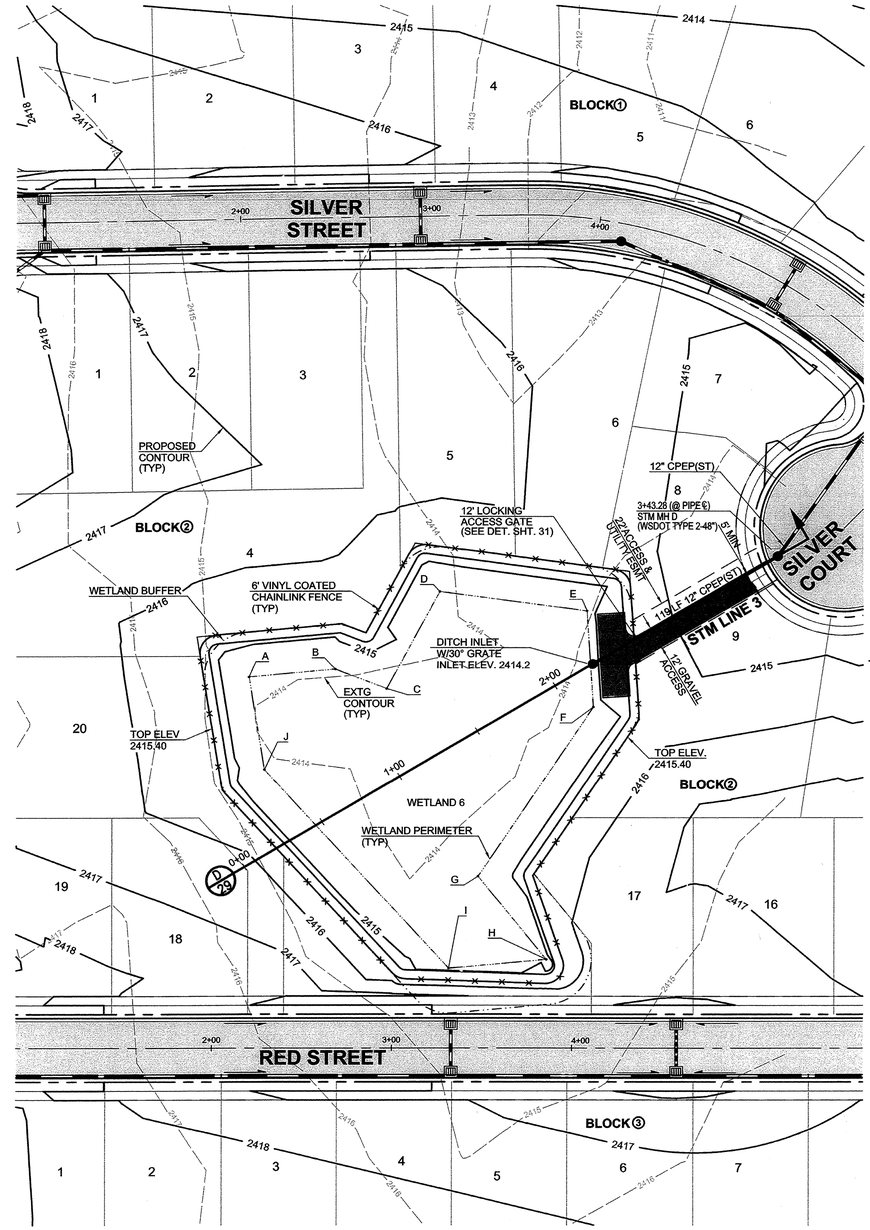
NTS



Ditch Inlet Grate (typ)

NTS

STORM POND (ALIGNMENT D)		
LABEL	STATION	ELEVATION (MATCH EXTG GROUND)
A	0+56.00 (90.41' LT)	2414.05
B	0+99.56 (69.84' LT)	2414.03
C	1+18.62 (46.03' LT)	2413.68
D	1+71.53 (78.04' LT)	2414.08
E	2+36.50 (27.28' LT)	2414.00
F	2+12.42 (21.00' LT)	2414.20
G	1+09.23 (70.37' RT)	2414.28
H	1+18.29 (129.77' LT)	2414.30
I	0+69.02 (106.54' RT)	2414.40
J	0+37.10 (41.42' LT)	2414.05



STORMWATER FACILITY PLANTING

PLANTING MIXTURE SPECIFICATIONS: FOR BOTTOM & SIDE SLOPES

BOTTOM OF POND	% BY WEIGHT
BLUE WILDRYE	46
NATIVE RED FESCUE	38
TUFTED HAIRGRASS	12
WESTERN MANNAGRASS	2
AMERICAN SLOUGHGRASS	2

APPLICATION RATE:
HYDROSEED @ 1 LB/1000 SQUARE FEET

SIDE SLOPES	% BY WEIGHT
NATIVE RED FESCUE	50
CALIFORNIA BROME	20
BLUE WILDRYE	20
LARGE LEAF LUPINE	10

APPLICATION RATE:
HYDROSEED @ 2 LBS/1000 SQUARE FEET

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
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PROJECT APPLICANT

Thomas Brunsmith 6/29/07
AHO CONSTRUCTION Date

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ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
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JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38322
REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

29/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N.	U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
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NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

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CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

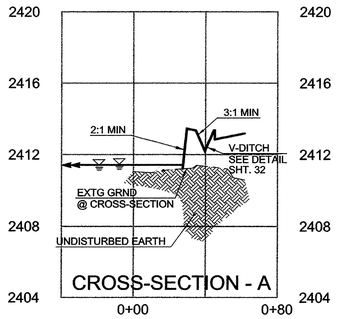
	LAST PROJECT BY	DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

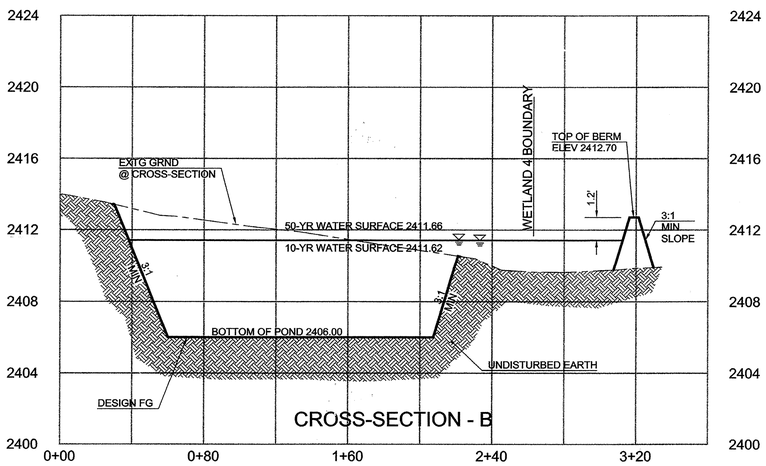
SPOKANE

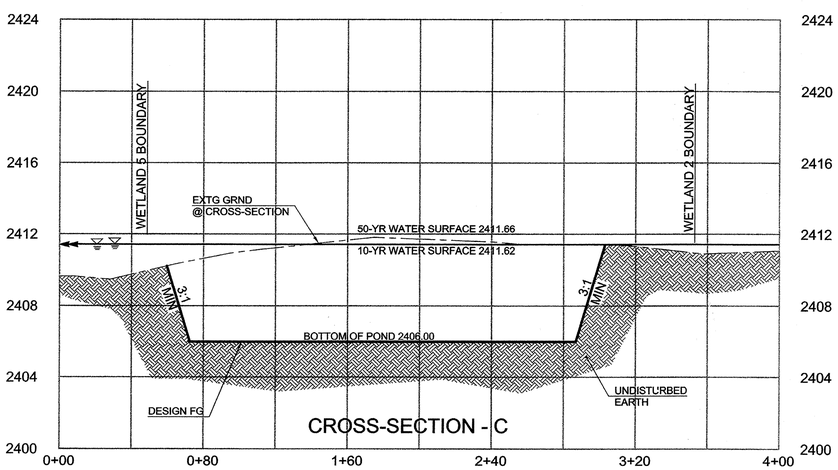
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

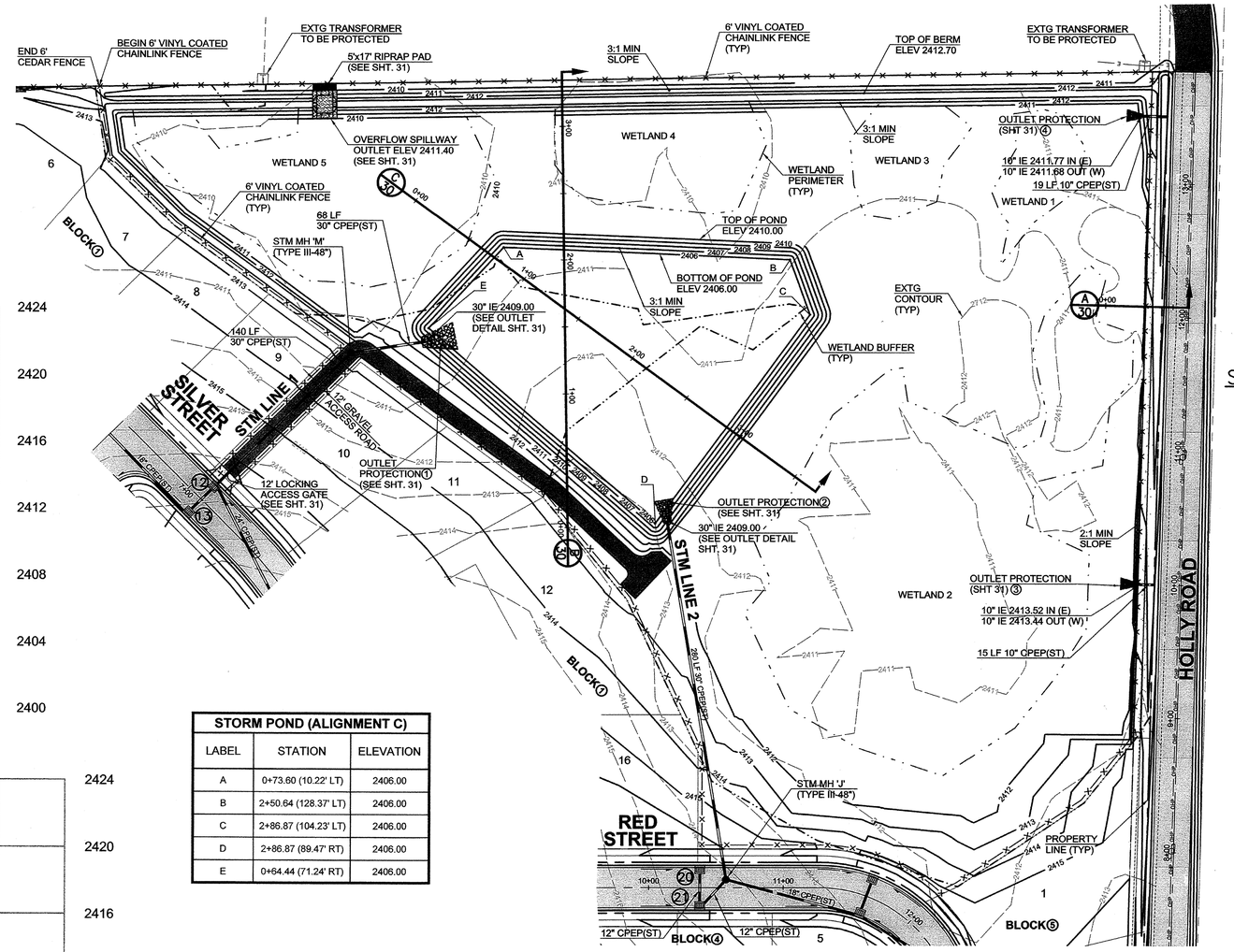
PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: STORM FACILITY
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

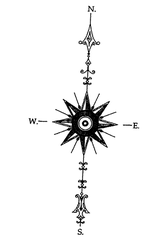
P-1980 Eng Road Drainage











STORMWATER FACILITY PLANTING

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BOTTOM OF POND	% BY WEIGHT
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NATIVE RED FESCUE	38
TUFTED HAIRGRASS	12
WESTERN MANNAGRASS	2
AMERICAN SLOUGHGRASS	2

APPLICATION RATE:
HYDROSEED @ 1 LB/1000 SQUARE FEET

SIDE SLOPES	% BY WEIGHT
NATIVE RED FESCUE	50
CALIFORNIA BROME	20
BLUE WILDRYE	20
LARGE LEAF LUPINE	10

APPLICATION RATE:
HYDROSEED @ 2 LBS/1000 SQUARE FEET

STORM POND (ALIGNMENT C)		
LABEL	STATION	ELEVATION
A	0+73.60 (10.22' LT)	2406.00
B	2+50.64 (128.37' LT)	2406.00
C	2+86.87 (104.23' LT)	2406.00
D	2+86.87 (89.47' RT)	2406.00
E	0+64.44 (71.24' RT)	2406.00

EXTG LINETYPE LEGEND	
Extg Over Head Power Line	— OHP — OHP — OHP —

PROJECT APPLICANT

Thomas A. Smith 6/26/07
AHO CONSTRUCTION Date

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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JOHN ERIC FETTEROLF — STATE OF WASHINGTON — 38332 — REGISTERED PROFESSIONAL ENGINEER — 6/27/07
EXPIRES: JAN 27, 2009

30/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
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NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354 USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL N/A
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

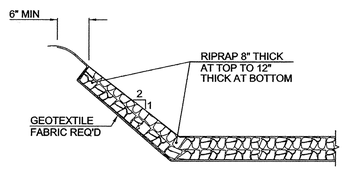
LAST PROJECT BY		DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

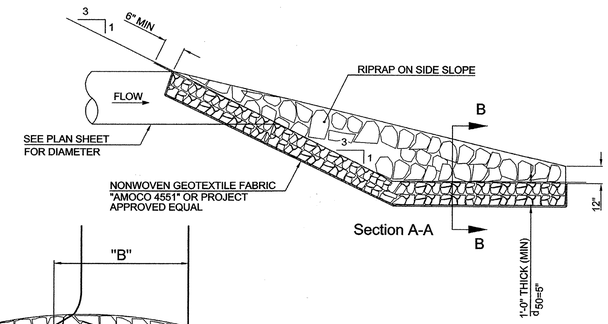
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: STORM FACILITY
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
TYPE OF IMPROVEMENT: STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

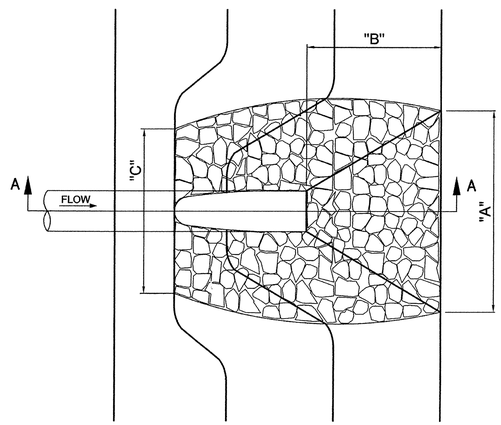
P-1980 Eng Road Drainage



Section B-B



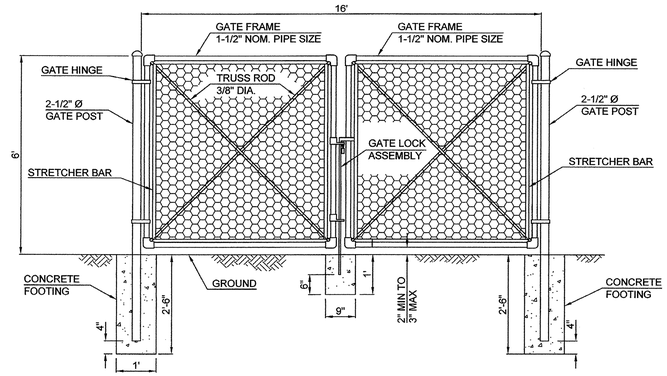
Section A-A

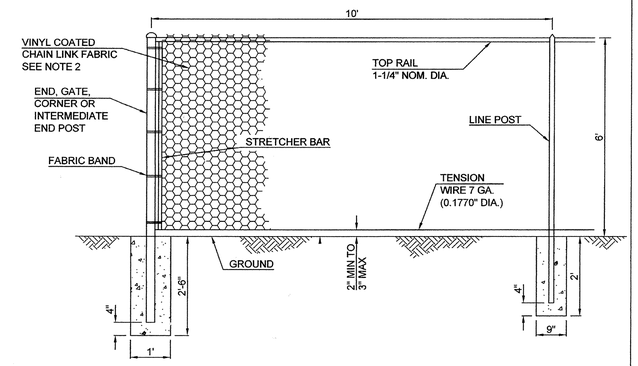


RIPRAP REVETMENT AT PIPE OUTFALL			
OUTLET #	"A"	"B"	"C"
1	18.0'	26.0'	7.5'
2	16.0'	21.0'	7.5'
3	5.5'	7.0'	2.5'
4	5.0'	6.5'	2.5'

Outlet Protection Detail

NTS



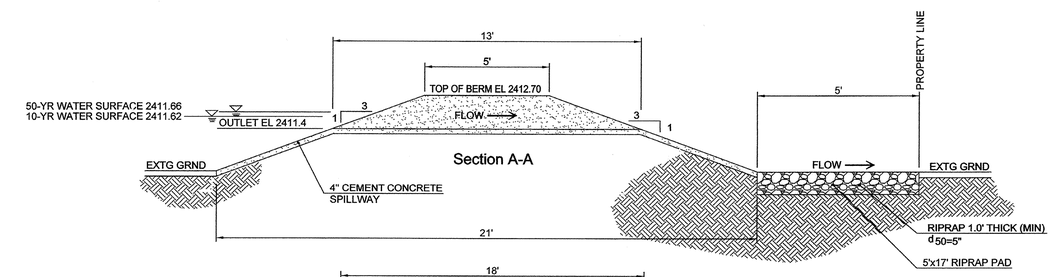


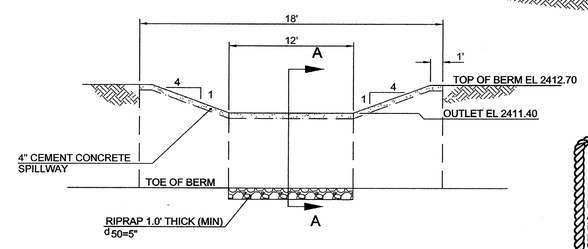
Storm Facility Chain Link Fence

NTS

NOTES:

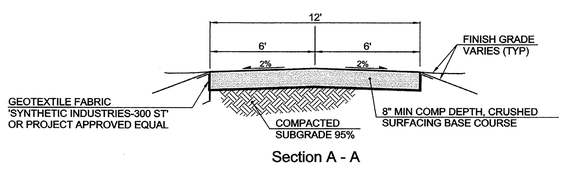
1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION
2. VINYL COATED CHAIN LINK FENCE FABRIC TO MEET OR EXCEED REQUIREMENTS OF WSDOT SPECIFICATION 9.16.1(7) FOR TYPE 1 FENCE (9 GA) 2" DIAMOND.



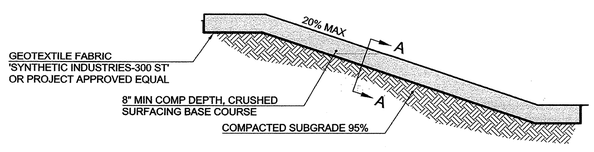


Overflow Spillway Detail (Typ)

NTS

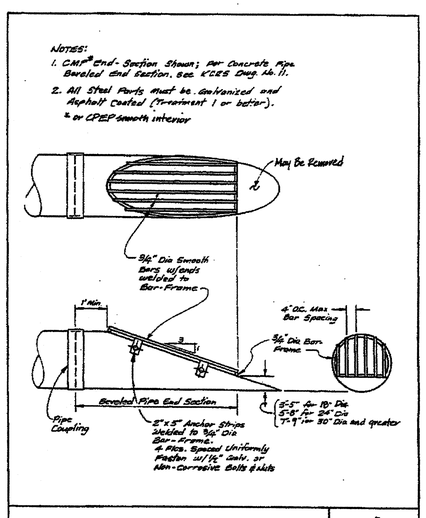


Section A - A



Gravel Access Road

NTS



Trash Rack

Guidelines for Stormwater Management

Figure 39 | Addendum, February 1998 Pg. 6-75

SPOKANE COUNTY

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT

Thomas Brownsmith 6/21/07
AHO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS - PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(306) 695-3485
FAX (509) 547-5129
Internet: www.hdjengineers.com

JOHN ERIC FETTEROLF, STATE OF WASHINGTON, REG. 38322, REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

31/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N.	U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD								GRADE ESTABLISHMENTS				

NAVD88 = (OLD CBM ELEV.) - (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL N/A
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

	LAST PROJECT BY	DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE

SHEET LIMITS: STORM FACILITY DETAILS

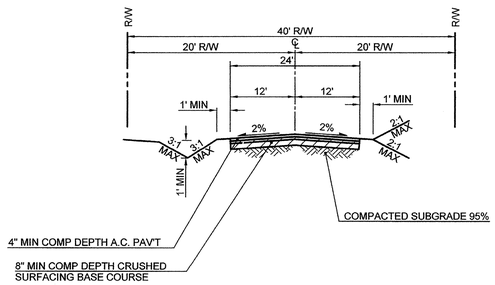
TYPE OF IMPROVEMENT: DETAILS

CITY PROJECT NUMBER | CITY PLAN NUMBER

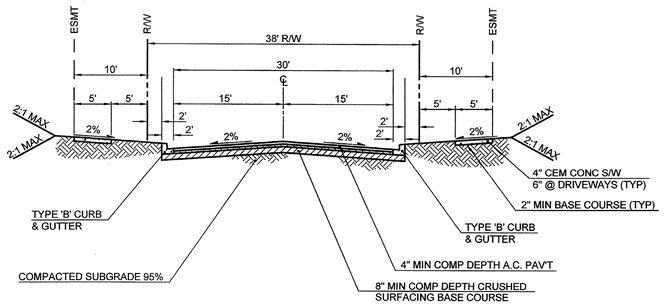
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD

EFN:

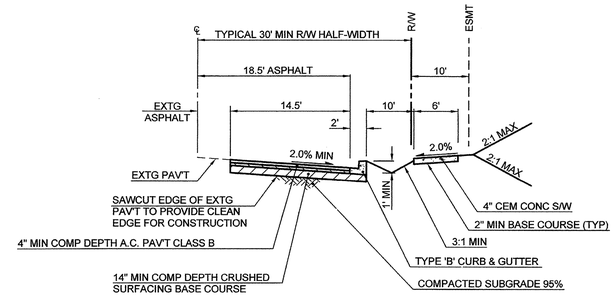
P-1980 Eng Road Drainage



Holly Road 0+20.37 - 3+45.66
Typical Section
NTS



Typical Street Section
NTS



Thomas Mallen Road 3+39.25 - 11+46.00
Typical Section
NTS

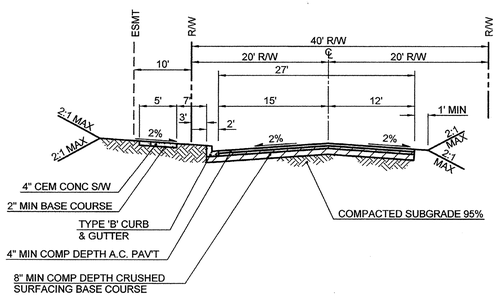
City Of Spokane Construction Standards

STANDARD DETAILS INCLUDED IN CONTRACT

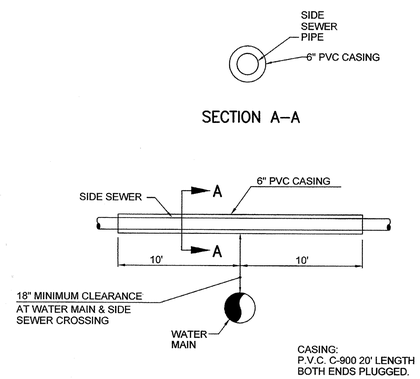
City of Spokane STD Plan No.	DESCRIPTION
Y-101	TYPICAL HYDRANT SETTING
Y-109	CAST IRON VALVE BOX

SEWER DETAILS INCLUDED IN CONTRACT

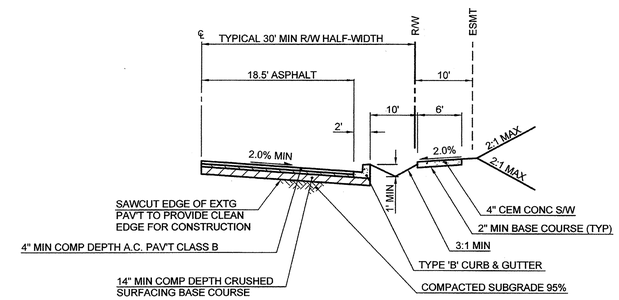
City of Spokane STD Plan No.	DESCRIPTION
Z-101	MANHOLE - TYPE 1-48"
Z-109	MAHOLE STEP DETAILS
Z-113	PIPE INVERT
Z-114	SEWER CLEANOUT
Z-116	SIDE SEWER



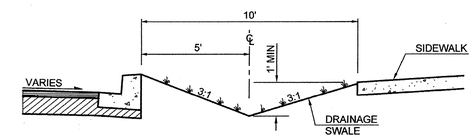
Holly Road 3+45.66 - 5+41.48
Typical Section
NTS



Typical Side Sewer Crossing Over Waterline
NTS

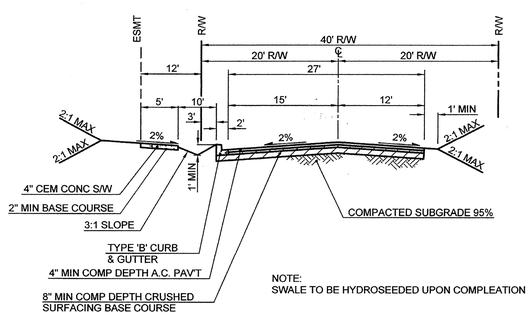


Thomas Mallen Road 11+46 - 12+76.84
Typical Section
NTS



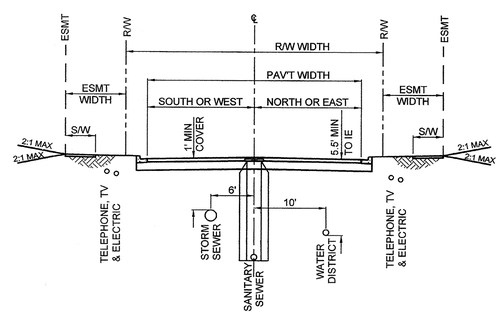
NOTE:
SWALE TO BE HYDROSEEDED UPON COMPLETION.

Typical Swale Detail for Thomas Mallen Road & Holly Road
NTS

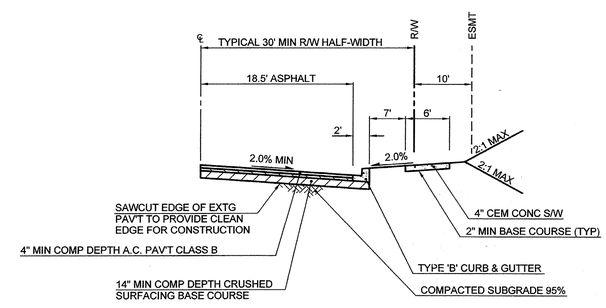


NOTE:
SWALE TO BE HYDROSEEDED UPON COMPLEATION

Holly Road 5+41.48 - 13+83.79
Typical Section
NTS



Typical Utility Locations
NTS



Thomas Mallen Road 12+76.84 - 13+57.96
Typical Section
NTS

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.76
PROJECT LANE MILES PRIVATE: —
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT
AHO CONSTRUCTION — Date 7/3/07

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
(509) 547-5119
(306) 695-3488
FAX (509) 547-5129
Internet: www.hdjengineers.com

THOMAS J. LONERGAN — STATE OF WASHINGTON — 36026 — REGISTERED PROFESSIONAL ENGINEER
7-2-07
EXPIRES: FEB 14, 2008

32/33

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO
REVISIONS				RECORD					

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 = (OLD CBM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL N/A
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995

	LAST PROJECT BY	DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

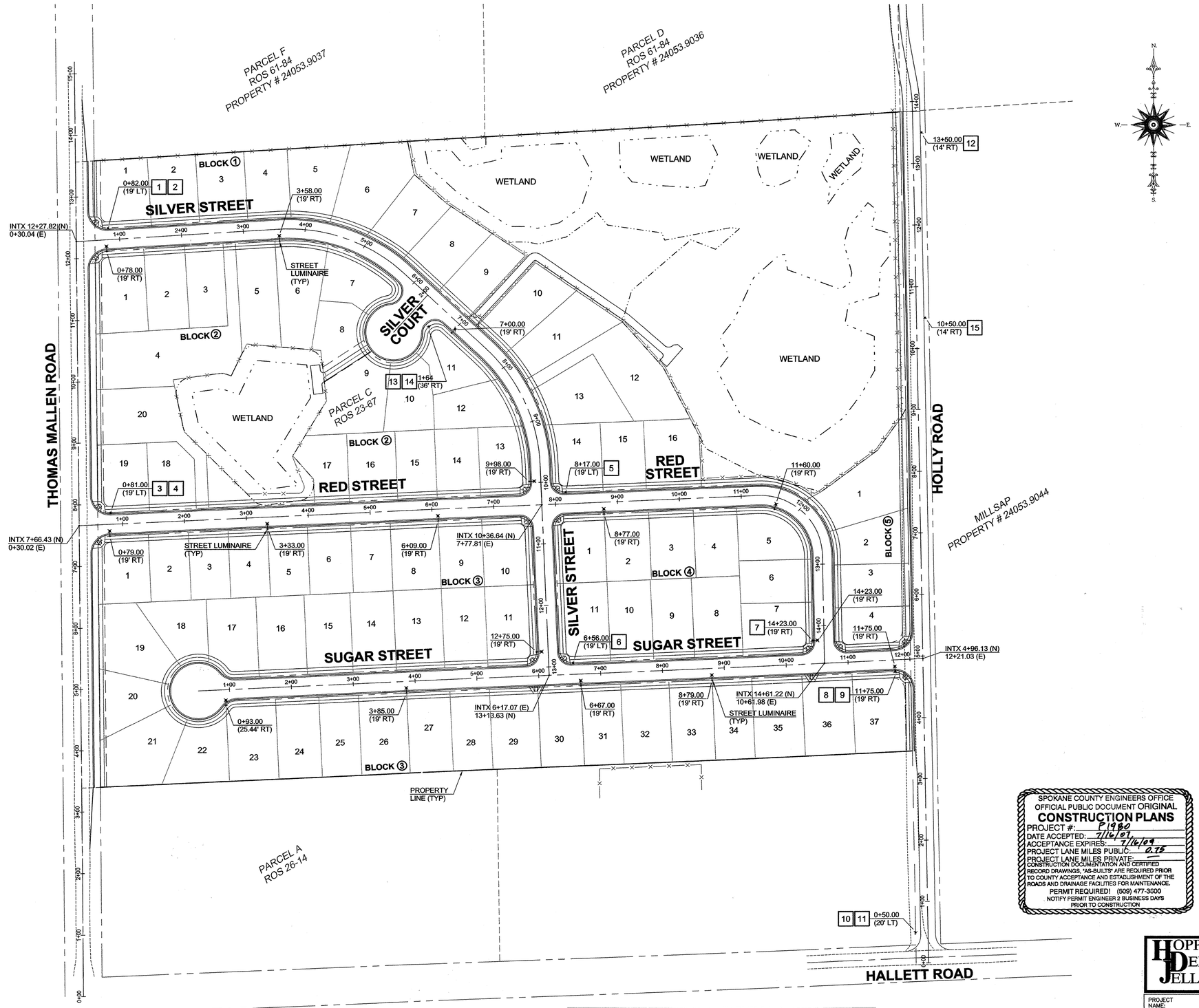
SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201–3343
(509) 625–6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: MISCELLANEOUS DETAILS
TYPE OF IMPROVEMENT: DETAILS
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
EFN:

CALL BEFORE YOU DIG 456–8000 P-1980 Eng Road Drainage

P:\Projects\02625\CAD\Final\Drawings\Prod\02625c32.dwg, 7/2/2007 11:01:49 AM, cts



#	MUTCD SIGN CODE	MESSAGE	REMARKS
1	D3 D3	THOMAS MALLEN ROAD SILVER STREET	TWO SIDED SIGNS TWO SIDED SIGNS
2	R1-1	STOP	36"x36" STOP
3	R1-1	STOP	36"x36" STOP
4	D3 D3	THOMAS MALLEN ROAD RED STREET	TWO SIDED SIGNS TWO SIDED SIGNS
5	D3 D3	SILVER STREET RED STREET	TWO SIDED SIGNS TWO SIDED SIGNS
6	D3 D3	SILVER STREET SUGAR STREET	TWO SIDED SIGNS TWO SIDED SIGNS
7	D3 D3	RED STREET SUGAR STREET	TWO SIDED SIGNS TWO SIDED SIGNS
8	R1-1	STOP	36"x36" STOP
9	D3 D3	SUGAR STREET HOLLY ROAD	TWO SIDED SIGNS TWO SIDED SIGNS
10	R1-1	STOP	36"x36" STOP
11	D3 D3	HOLLY ROAD HALLETT ROAD	TWO SIDED SIGNS TWO SIDED SIGNS
12	W8-3	PAVEMENT ENDS	-
13	R1-1	STOP	36"x36" STOP
14	D3 D3	SILVER COURT SILVER STREET	TWO SIDED SIGNS TWO SIDED SIGNS
15	W1-4	-	HORIZONTAL ALIGNMENT SIGN

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1980
DATE ACCEPTED: 7/16/07
ACCEPTANCE EXPIRES: 7/16/09
PROJECT LANE MILES PUBLIC: 0.75
PROJECT LANE MILES PRIVATE: -
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT
Thomas A. Smith 6/26/07
AHO CONSTRUCTION Date

JOHN ERIC FETTEROLF
STATE OF WASHINGTON
38322
REGISTERED PROFESSIONAL ENGINEER
6/27/07
EXPIRES: JAN 27, 2009

33/33

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS · PLANNERS
LANDSCAPE ARCHITECTS
6115 Burden Blvd., Suite E
Pasco, WA 99301
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Internet: www.hdjengineers.com

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ.	E.F.N. , U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

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BENCH MARK LOCATION WSDOT GPS W354
USC&GS BRASS DISK IN 6 INCH PIPE
IN CONCRETE MONUMENT, NAVD 88 DATUM
NAVD88 ELEV. 2412.35
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=80'
VERTICAL PROFILE ONLY N/A
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB,1995		
LAST PROJECT BY		DATES
DRAWN:	BRR	1/07
REVISED:		
CHECKED:	JLM	5/07
APPROVED:	JEF	5/07

SPOKANE
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: MAPLE TERRACE
SHEET LIMITS: SIGNING, STRIPING, & ILLUMINATION
TYPE OF IMPROVEMENT:
CITY PROJECT NUMBER | CITY PLAN NUMBER
PROJECT LIMITS: THOMAS MALLEN ROAD & HOLLY ROAD
EFN:

P-1980 Eng Road-Drainage1