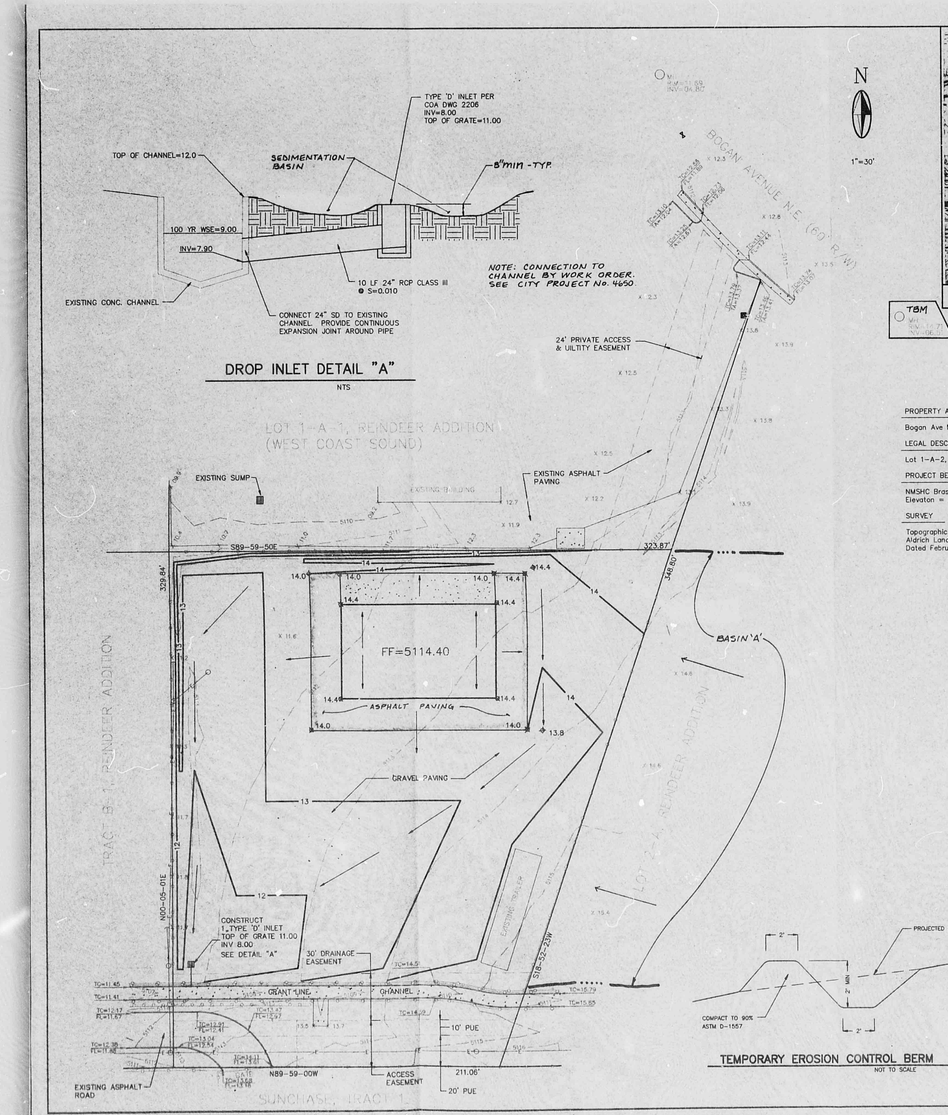
PUBLIC WORKS/HYDROLOGY

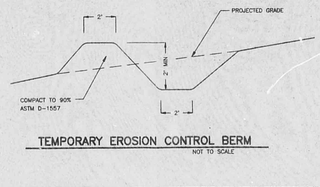
1 OF 2

F17/D49A



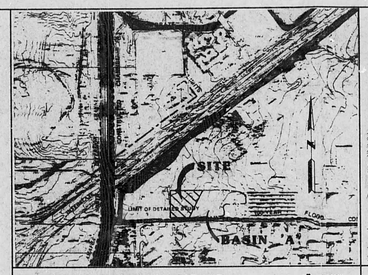
DROP INLET DETAIL "A"

NTS

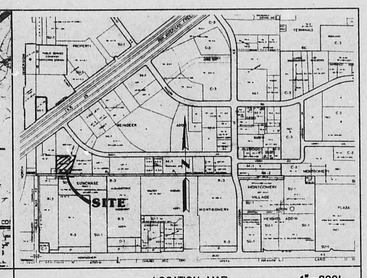


TEMPORARY EROSION CONTROL BERM

NOT TO SCALE



FLOODWAY & OFFSITE DRAINAGE MAP 1"=500'



LOCATION MAP 1"=800'

PROPERTY ADDRESS	
Bogan Ave NE	
LEGAL DESCRIPTION	
Lot 1-A-2, Reindeer Addition	
PROJECT BENCHMARK	
NMSHC Brass cap "I25-18" Elevation = 5125.70 feet (MSLD 1929)	
SURVEY	
Topographic and Improvement survey by Aldrich Land Surveying Dated February, 1993	

LEGEND

- 14 — CONTOUR (PROPOSED)
- 4949 — CONTOUR (EXISTING)
- CURB AND GUTTER
- CONCRETE
- GUARDRAIL
- SANITARY SEWER MANHOLE
- WATER VALVE
- x 11.3 SPOT ELEVATION (EXISTING)
- CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE
- POLE
- ANCHOR
- LIGHT POLE
- 14.0 SPOT ELEVATION (PROPOSED)
- FLOW DIRECTION
- DRAINAGE SWALE
- DRAINAGE BASIN DIVIDE

HYMO DATA SHEET

Precipitation zone 2 P360= 2.35"

Basin	Basin Area (ac)	Land Treatment A (acres)	B	C	D	Ew (in)	Q100 (cfs)	V100 (af)
Existing conditions								
SITE	2.08	---	---	2.08	---	1.13	6.5	0.20
A	2.9	2.0	---	0.7	0.2	0.78	6.3	0.19
Developed conditions								
SITE	2.08	---	0.18	---	1.9	2.00	9.3	0.35
A	2.9	---	0.3	---	2.6	2.00	12.9	0.48

DRAINAGE PLAN

SCOPE:

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. A truck repair service facility is proposed on the property, with guards quarters (mobile home), and associated access, paving, drainage and utility improvements.

EXISTING CONDITIONS:

The project site is approximately 2.08 acres in size and is located just south of Bogan Avenue, east of the I-25 east frontage road. Presently the site is partially improved. The site has recently been graded to remove vegetation. A chain link fence has been constructed at the perimeter of the property for security purposes. Site topography is uniform, sloping from east to west at approximately one percent (1%). The site is bounded on the west and north by developed commercial properties, on the east by undeveloped property, and on the south by a developed apartment complex. The Grant Line Channel runs through the southern edge of the site. As shown by Floodway Map Panel 350002 0016, this site does not lie within a designated flood hazard zone.

The natural (pre-graded) site drained in a northwesterly direction into the West Coast Sound site located to the north. An area drain is provided on the West Coast Sound site to intercept all flows. This area drain discharges into an underground vault which is drained by a sump pump. The outfall for the vault is the Pan American Frontage Road drainage system.

The existing (graded) site drains in a westerly direction. Temporary erosion control berms have been placed at the property lines to prohibit discharge of flows onto adjacent lands. The graded site is presently ponding runoff as a result of erosion control measures.

DEVELOPED CONDITIONS:

As shown by the Plan, the site is to be developed as a service center for a trucking operation. Improvements consist of construction of a 6000 SF building, paved access and parking, perimeter fencing, guards quarters (mobile home), private utilities, and drainage improvements. Review of the existing off-site conditions at West Coast Sound, and the Drainage Report for Lot 1A (West Coast Sound), prepared by Hall Engineering, dated 1-23-85, reveals that the existing vault does not have capacity to accept developed flows from the L&H Trucking site. The vault was sized to accept only undeveloped flow from the L&H site. Inspection of the vault revealed a need for maintenance which would be increased by further discharge by the project site. The site will therefor be graded to drain to the Grant Line Channel located to the routh. An area drain will be constructed just north of the channel to intercept all on-site flow. Utilization of an area drain reduces the fill required drain the site to the south instead of its natural tendency to drain northwest.

The site accepts off-site flow from the undeveloped tract located to the east. The drainage improvements to be provided by this project will be sized to accept this runoff, however, when the adjacent tract develops it will be required to drain either to the Grant Line Channel or Bogan ave.

As shown by the Plan, the site has paved access through the West Coast Sound site. A 20' strip will be paved around the perimeter of the building, with the remainder of the site to be paved with gravel.

CALCULATIONS:

The calculations shown hereon define the 100 year/6 hour design storm falling with the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Part A, DPM, Vol 2" Dated August 1991. Supplemental calculations for the sizing of the private drop inlet and connection to the Grant Line Channel are submitted separately.

RECEIVED MAR 12 1993

L & H TRUCKING
GRADING & DRAINAGE PLAN

FLOYD L. BRASHER NEW MEXICO 9681

2-25-93 3-4-93

BRASHER ENGINEERING, INC.
11930 MENAUL BLVD. N.E., SUITE 113
ALBUQUERQUE, NEW MEXICO 87112
(505)296-0422

DRAWN BY: STAFF	DATE: 02-25-93
CHECKED BY: D.A.L.	SHEET 1 OF 1

02259.3DAL

R# 25 DATE 3-17-92 OP. KR

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS1A5-1977)

Brian J. Hatley 1/15/92
DIRECTOR

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

CITY OF ALBUQUERQUE THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

Roberta Duran
NOTARY PUBLIC

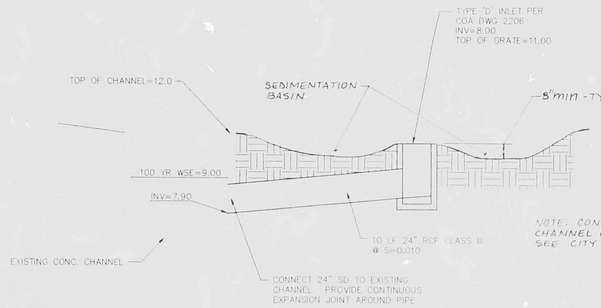
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/23/92

PLANS/PLATS ON FILE

FILE DESC: F17/D49A

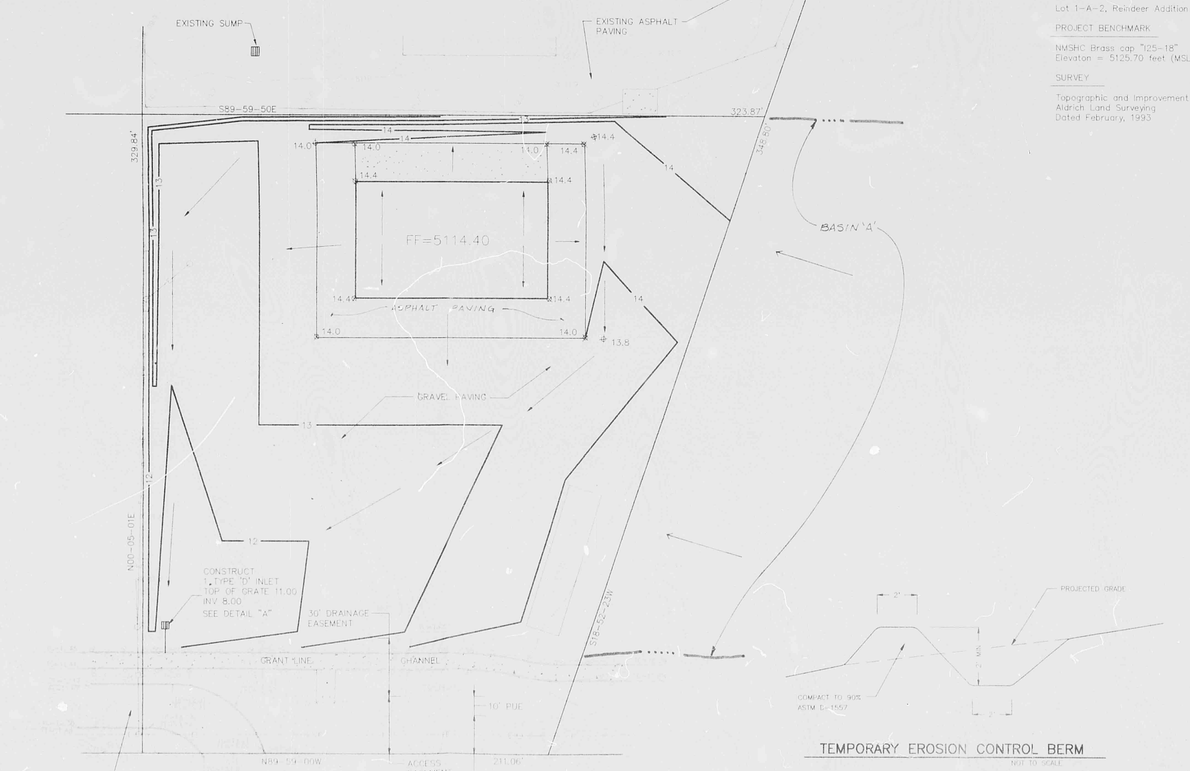
PLANS/PLATS 3

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F



DROP INLET DETAIL "A"

NTS



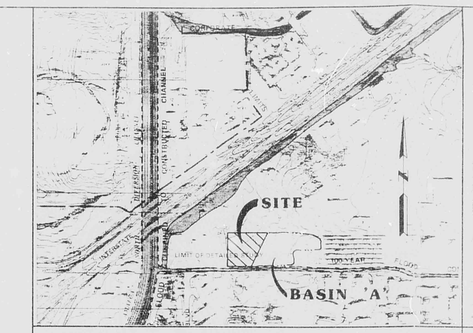
TEMPORARY EROSION CONTROL BERM

NOT TO SCALE

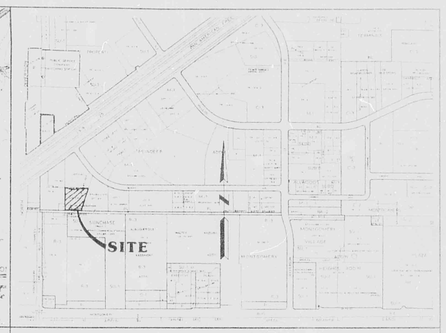
N

1"=60'

TBM



FLOODWAY & OFFSITE DRAINAGE MAP 1"=500'



LOCATION MAP 1"=800'

PROPERTY ADDRESS

Bogan Ave NE

LEGAL DESCRIPTION

Lot 1-A-2, Reindeer Addition

PROJECT BENCHMARK

NMSHC Brass cap "125-18"
Elevaton = 5125.70 feet (MSLD 1929)

SURVEY

Topographic and Improvement survey by
Aldrich Land Surveying
Dated February, 1993

LEGEND

—14—	CONTOUR (PROPOSED)
	CONTOUR (EXISTING)
	CURB AND GUTTER
	CONCRETE
	GUARDRAIL
	SANITARY SEWER MANHOLE
	WATER VALVE
x 11.3	SPOT ELEVATION (EXISTING)
	CHAIN LINK FENCE
	OVERHEAD ELECTRIC LINE
	POLE
	ANCHOR
	LIGHT POLE
⊕ 14.0	SPOT ELEVATION (PROPOSED)
	FLOW DIRECTION
	DRAINAGE SWALE
	DRAINAGE BASIN DIVIDE

HYMO DATA SHEET

Precipitation zone 2 P360= 2.35"

Basin	Basin Area (ac)	Land Treatment A (acres)	B	C	D	EW (in)	Q100 (cfs)	V100 (af)
Existing conditions								
SITE	2.08	---	---	2.08	---	1.13	6.5	0.20
A	2.9	2.0	---	0.7	0.2	0.78	6.3	0.19
Developed conditions								
SITE	2.08	---	0.18	---	1.9	2.00	9.3	0.35
A	2.9	---	0.3	---	2.6	2.00	12.9	0.48

DRAINAGE PLAN

SCOPE:

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. A truck repair service facility is proposed on the property, with guards quarters (mobile home), and associated access, paving, drainage and utility improvements.

EXISTING CONDITIONS:

The project site is approximately 2.08 acres in size and is located just south of Bogan Avenue, east of the I-25 east frontage road. Presently, the site is partially improved. The site has recently been graded to remove vegetation. A chain link fence has been constructed at the perimeter of the property for security purposes. Site topography is uniform, sloping from east to west at approximately one percent (1%). The site is bounded on the west and north by developed commercial properties, on the east by undeveloped property, and on the south by a developed apartment complex. The Grant Line Channel runs through the southern edge of the site. As shown by Floodway Map Panel 350002 0016, this site does not lie within a designated flood hazard zone.

The natural (pre-graded) site drained in a northwesterly direction into the West Coast Sound site located to the north. An area drain is provided on the West Coast Sound site to intercept all flows. This area drain discharges into an underground vault which is drained by a sump pump. The outfall for the vault is the Pan American Frontage Road drainage system.

The existing (graded) site drains in a westerly direction. Temporary erosion control berms have been placed at the property lines to prohibit discharge of flows onto adjacent lands. The graded site is presently ponding runoff as a result of erosion control measures.

DEVELOPED CONDITIONS:

As shown by the Plan, the site is to be developed as a service center for a trucking operation. Improvements consist of construction of a 6000 SF building, paved access and parking, perimeter fencing, guards quarters (mobile home), private utilities, and drainage improvements. Review of the existing off-site conditions at West Coast Sound, and the Drainage Report for Lot 1A (West Coast Sound), prepared by Hall Engineering, dated 23-85, reveals that the existing vault does not have capacity to accept developed flows from the L&H Trucking site. The vault was sized to accept only undeveloped flow from the L&H site. Inspection of the vault revealed a need for maintenance, which would be increased by further discharge by the project site. The site will therefor be graded to drain to the Grant Line Channel located to the south. An area drain will be constructed just north of the channel to intercept all on-site flow. Utilization of an area drain reduces the fill required from the site to the south, instead of its natural tendency to drain northwest.

The site accepts off-site flow from the undeveloped tract located to the east. The drainage improvements to be provided by this project will be sized to accept this runoff, however, when the adjacent tract develops it will be required to drain either to the Grant Line Channel or Bogan Ave.

As shown by the Plan, the site has paved access through the West Coast Sound site. A 20' strip will be paved along the perimeter of the building, with the remainder of the site to be paved with gravel.

CALCULATIONS:

The calculations shown hereon define the 100 year/6 hour design storm falling with the project site under existing and developed conditions. The Hydrology is per "Section 22.2, Part A DPM, Vol 2" Dated August 1997. Supplemental calculations for the sizing of the private drop inlet and connection to the Grant Line Channel are submitted separately.

L & H TRUCKING
GRADING & DRAINAGE PLAN

BRASHER ENGINEERING, INC.
11930 MENAUL BLVD. N.E., SUITE 113
ALBUQUERQUE, NEW MEXICO 87112
(505)296-0422

2-25-92 3-27-92

DRAWN BY: STAFF	DATE: 02/25/92
CHECKED BY: RJS	DATE: 03/27/92

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 35 DATE 5/19/92 OP

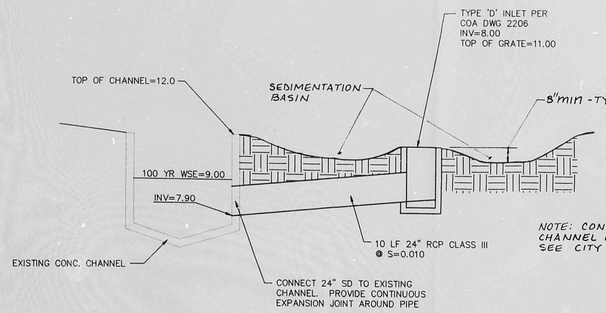
CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Rebecca Duran
07/02/92

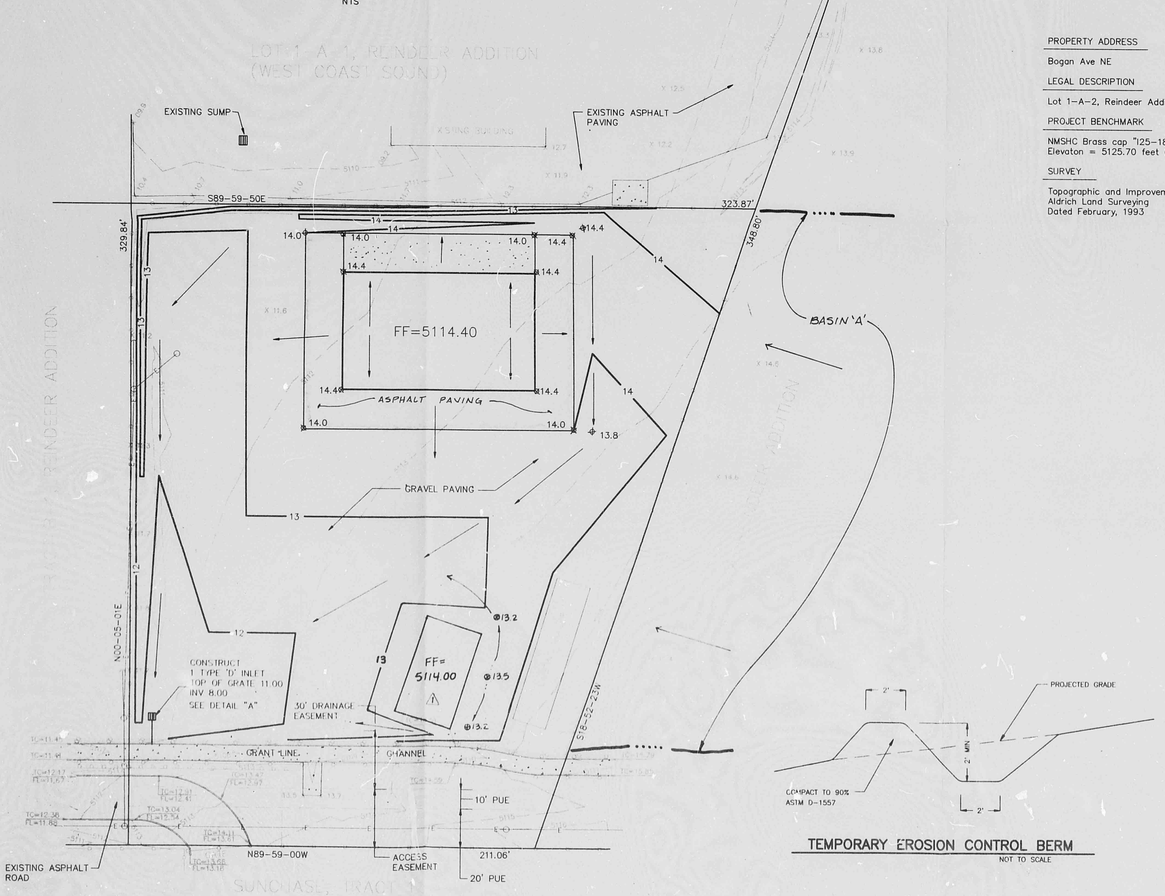
D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D



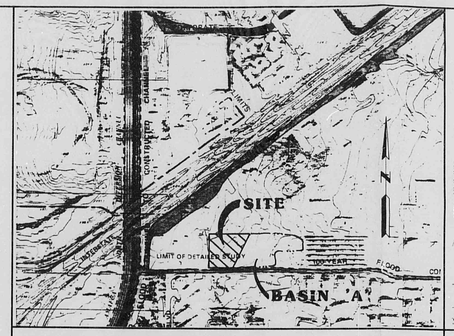
DROP INLET DETAIL "A"

NTS

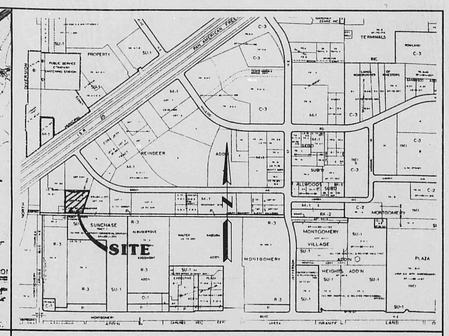


TEMPORARY EROSION CONTROL BERM

NOT TO SCALE



FLOODWAY & OFFSITE DRAINAGE MAP 1"=500'



LOCATION MAP 1"=800'

TBM

PROPERTY ADDRESS

Bogan Ave NE

LEGAL DESCRIPTION

Lot 1-A-2, Reindeer Addition

PROJECT BENCHMARK

NMSHC Brass cap "125-18"
Elevaton = 5125.70 feet (MSLD 1929)

SURVEY

Topographic and Improvement survey by
Aldrich Land Surveying
Dated February, 1993

LEGEND

- —14— CONTOUR (PROPOSED)
- 5148 CONTOUR (EXISTING)
- CURB AND GUTTER
- CONCRETE
- GUARDRAIL
- SANITARY SEWER MANHOLE
- WATER VALVE
- x 11.3 SPOT ELEVATION (EXISTING)
- CHAIN LINK FENCE
- —E— OVERHEAD ELECTRIC LINE
- POLE
- ANCHOR
- LIGHT POLE
- 14.0 SPOT ELEVATION (PROPOSED)
- FLOW DIRECTION
- DRAINAGE SWALE
- DRAINAGE BASIN DIVIDE

HYMO DATA SHEET

Precipitation zone 2 P360= 2.35"

Basin	Basin Area (ac)	Land Treatment A (acres)	B	C	D	Ew (in)	Q100 (cfs)	V100 (af)
Existing conditions								
SITE	2.08	---	---	2.08	---	1.13	6.5	0.20
A	2.9	2.0	---	0.7	0.2	0.78	6.3	0.19
Developed conditions								
SITE	2.08	---	0.18	---	1.9	2.00	9.3	0.35
A	2.9	---	0.3	---	2.6	2.00	12.9	0.48

DRAINAGE PLAN

SCOPE:

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. A truck repair service facility is proposed on the property, with guards quarters (mobile home), and associated access, paving, drainage and utility improvements.

EXISTING CONDITIONS:

The project site is approximately 2.08 acres in size and is located just south of Bogan Avenue, east of the I-25 east frontage road. Presently the site is partially improved. The site has recently been graded to remove vegetation. A chain link fence has been constructed at the perimeter of the property for security purposes. Site topography is uniform, sloping from east to west at approximately one percent (1%). The site is bounded on the west and north by developed commercial properties, on the east by undeveloped property, and on the south by a developed apartment complex. The Grant Line Channel runs through the southern edge of the site. As shown by Floodway Map Panel 350002 0016, this site does not lie within a designated flood hazard zone.

The natural (pre-graded) site drained in a northwesterly direction into the West Coast Sound site located to the north. An area drain is provided on the West Coast Sound site to intercept all flows. This area drain discharges into an underground vault which is drained by a sump pump. The outfall for the vault is the Pan American Frontage Road drainage system.

The existing (graded) site drains in a westerly direction. Temporary erosion control berms have been placed at the property lines to prohibit discharge of flows onto adjacent lands. The graded site is presently ponding runoff as a result of erosion control measures.

DEVELOPED CONDITIONS:

As shown by the Plan, the site is to be developed as a service center for a trucking operation. Improvements consist of construction of a 6000 SF building, paved access and parking, perimeter fencing, guards quarters (mobile home), private utilities, and drainage improvements. Review of the existing off-site conditions at West Coast Sound, and the Drainage Report for Lot 1A (West Coast Sound), prepared by Hall Engineering, dated 1-23-8 reveals that the existing vault does not have capacity to accept developed flows from the L&H Trucking site. The vault was sized to accept only undeveloped flow from the L&H site. Inspection of the vault revealed a need for maintenance which would be increased by further discharge by the project site. The site will therefor be graded to drain to the Grant Line Channel located to the south. An area drain will be constructed just north of the channel to intercept all on-site flow. Utilization of an area drain reduces the fill required drain the site to the south instead of its natural tendency to drain northwest.

The site accepts off-site flow from the undeveloped tract located to the east. The drainage improvements to be provided by this project will be sized to accept this runoff, however, when the adjacent tract develops it will be required to drain either to the Grant Line Channel or Bogan ave.

As shown by the Plan, the site has paved access through the West Coast Sound site. A 20' strip will be paved around the perimeter of the building, with the remainder of the site to be paved with gravel.

CALCULATIONS:

The calculations shown hereon define the 100 year/6 hour design storm falling with the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Part A, DPM, Vol 2" Dated August 1991. Supplemental calculations for the sizing of the private drop inlet and connection to the Grant Line Channel are submitted separately.

OCT 13 1993
HYDROLOGY DIVISION

REVISIONS			
1 10-12-93	PLAN UPDATE TO ADD 30'x52' BUILDING	DAL	

L & H TRUCKING
GRADING & DRAINAGE PLAN

BRASHER ENGINEERING, INC.
11930 MENAUL BLVD. N.E., SUITE 113
ALBUQUERQUE, NEW MEXICO 87112
(505)296-0422

10-12-93
2-25-93 9-24-93

DRAWN BY: STAFF	DATE: 02-25-93
CHECKED BY: D.A.L.	SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 25 DATE 3-19-02 OP EGP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

3/15/02
DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

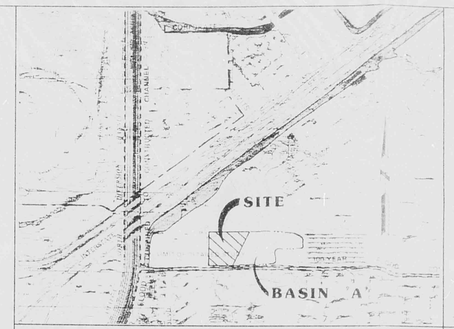
D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D

DROP INLET DETAIL "A"

N.T.S.

TEMPORARY EROSION CONTROL BERM



FLOODWAY & OFFSITE DRAINAGE MAP 1" =500'

LOCATION MAP 1" =800'

TBM

PROPERTY ADDRESS

Bogan Ave NE

LEGAL DESCRIPTION

Lot 1-A-2, Rountree Addition

PROJECT BENCHMARK

NMSHC brass cap "525-b8"
Elevation = 5125.70 feet (NAVD 1929)

SURVEY

Topographic and improvement survey by
Abitch Land Surveying
Dated February, 1993

LEGEND

- CONTOUR (PROPOSED)
- CONTOUR (EXISTING)
- CURB AND GUTTER
- CONCRETE
- GUARDRAIL
- SANITARY SEWER MANHOLE
- WATER VALVE
- SPOT ELEVATION (EXISTING)
- CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE
- ANCHOR
- LIGHT POLE
- SPOT ELEVATION (PROPOSED)
- FLOW DIRECTION
- DRAINAGE WALL
- DRAINAGE BASIN LIMITS

HMO DATA SHEET

Precipitation zone 2 Points 2.00

Basin	Basin Area (ac)	Land Treatment A (acres)	B (acres)	C (acres)	D (acres)	Tc (hr)	Q100 (cfs)	V100 (ac)
Existing conditions								
SITE	2.08	---	---	2.08	---	0.5	8.5	0.20
A	2.0	2.0	---	0.7	0.2	0.2	6.1	0.19
Developed conditions								
SITE	2.08	---	---	---	2.08	0.5	9.0	0.25
A	2.0	---	---	0.1	1.9	0.1	5.9	0.18

GRADING PLAN

NOTES

Pursuant to the Establishment Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Plan outlines the drainage management criteria for developing developed runoff from the project site. A truck tender service facility is proposed on the property, with guards quarters (mobile home), and associated access, paving, drainage and utility improvements.

EXISTING CONDITIONS

The project site is approximately 2.08 acres in size and is located just south of Bogan Avenue, east of the north east frontage road. Presently the site is partially improved. The site has recently been graded to remove vegetation. A chain link fence has been constructed of the perimeter of the property for security purposes. Site topography is uniform, sloping from east to west at approximately one percent (1%). The site is bounded from the west and north by developed commercial properties, on the east by undeveloped property, and on the south by a developed apartment complex. The Grant Line Channel runs through the southern edge of the site. As shown by Floodway Map Panel 350002 0015, this site does not lie within a designated flood hazard area.

The natural (pre-graded) site drained in a northwesterly direction. At the West Coast Sound site located to the north, an earthen berm was placed on the property line to intercept the drainage from the West Coast Sound site to intercept drainage coming from the Grant Line Channel. The berm was graded to drain to the Grant Line Channel. The berm was constructed by the owner of the West Coast Sound site. The existing graded site drains in a northwesterly direction. At the West Coast Sound site located to the north, an earthen berm was placed on the property line to intercept drainage coming from the Grant Line Channel. The berm was graded to drain to the Grant Line Channel. The berm was constructed by the owner of the West Coast Sound site. The existing graded site drains in a northwesterly direction, which was drained to a sump pump. The outlet for the sump pump is the Grant Line Channel.

The existing graded site drains in a northwesterly direction. At the West Coast Sound site located to the north, an earthen berm was placed on the property line to intercept drainage coming from the Grant Line Channel. The berm was graded to drain to the Grant Line Channel. The berm was constructed by the owner of the West Coast Sound site. The existing graded site drains in a northwesterly direction, which was drained to a sump pump. The outlet for the sump pump is the Grant Line Channel.

DEVELOPED CONDITIONS

As shown by the HMO data sheet, the site is to be graded to drain to the southeast. Improvements consist of a truck tender facility, consisting of a 6,000 SF building, paved access and parking, perimeter fencing, guards quarters (mobile home), private utilities, and drainage improvements. Grading of the site is adjacent at West Coast Sound, and the drainage report for Lot 15 (West Coast Sound) prepared by Hill Engineering, dated 1-3-92, reports that the existing berm, that was made originally to intercept flows from the Grant Line Channel, and was graded to direct flows from the West Coast site, to the Grant Line Channel. The owner of the West Coast Sound requested a waiver from the City Engineer, which was granted by grading to drain to the Grant Line Channel, located to the south. An area drain will be constructed just south of the building to intercept the site flows. The flows will be directed to the Grant Line Channel. The Grant Line Channel is the south outlet for the site. The channel has a 100 year capacity and is subject to erosion tendency in some reaches.

The site accepts offsite flow from the undeveloped Tract 1-A-1 to the west. The drainage improvements to be provided by this project will be sized to accept this runoff. Also, the adjacent West Coast Sound site is required to accept flows from the Grant Line Channel or Bogan Ave.

As shown by the HMO data sheet, the developed site drains to the Grant Line Channel. The site is graded to drain to the south, to the southeast of the building, with the remainder of the site to be paved with gravel.

CONCLUSION

The proposed truck tender facility will have a minimal impact on the drainage patterns and flows from the site. The developed conditions flows are less than the existing and the DPM for the Bogan Avenue improvements. Grading and drainage of the proposed facility will not adversely affect adjacent properties or the public right-of-way.

DRAINAGE PLAN

REVISIONS

2/5/92	REVISED ASPHALT & GRADING		

L & H TRUCKING
GRADING & DRAINAGE PLAN

BRASHER ENGINEERING, INC.
11000 MENAUL BLVD. N.E., Suite 115
ALBUQUERQUE, NEW MEXICO 87112
(505) 296-0942

PLAN SHOT TWICE
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R# 35 DATE 5/17/92 OP

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DIRECTOR

NOTARY PUBLIC
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Roberta Duran
07/07/92

D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D

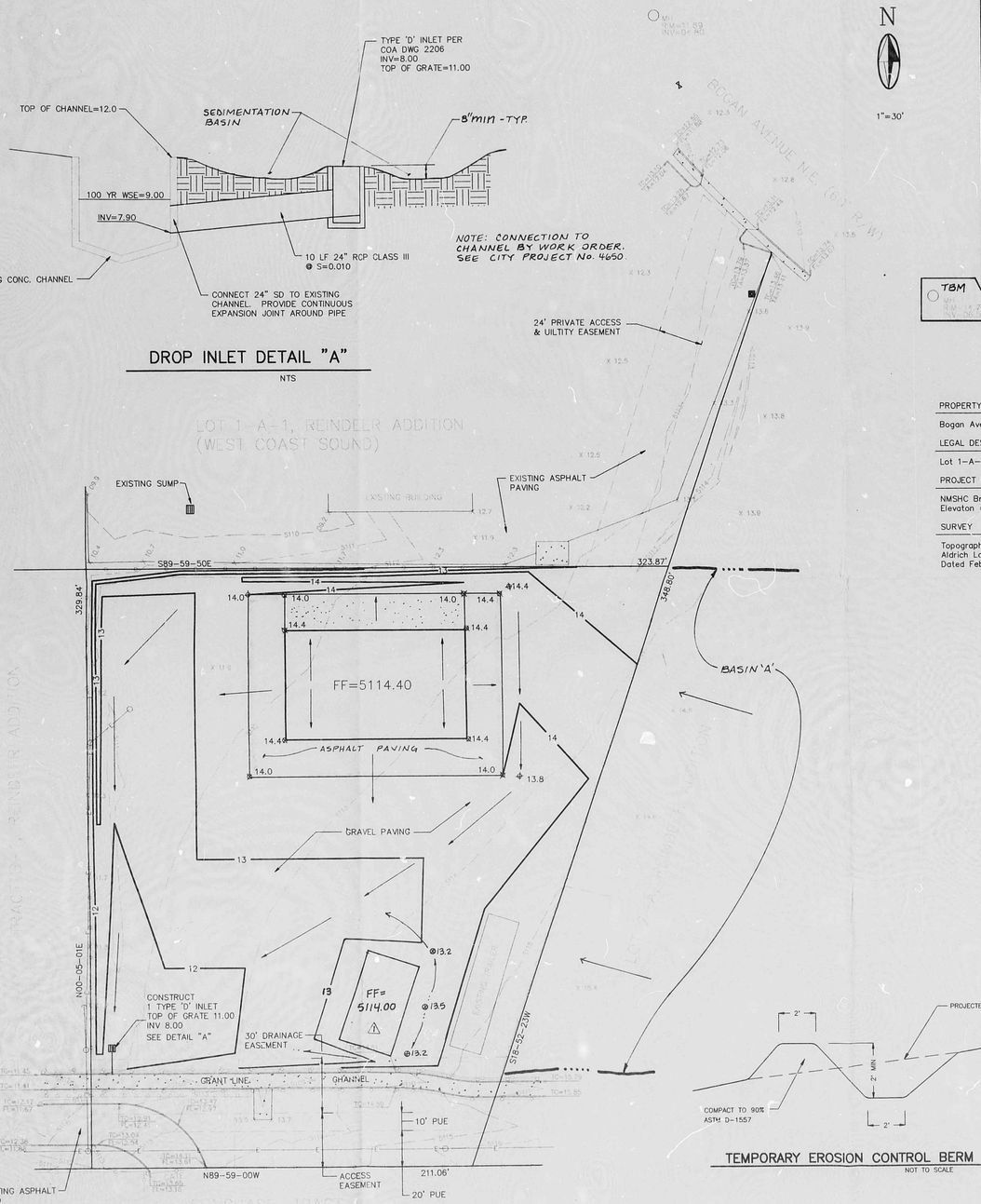
PUBLIC WORKS/HYDROLOGY

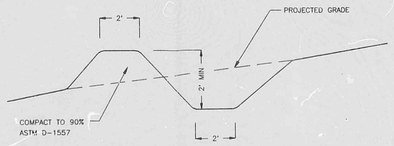
2 OF 2

F17/D49A

DROP INLET DETAIL "A"

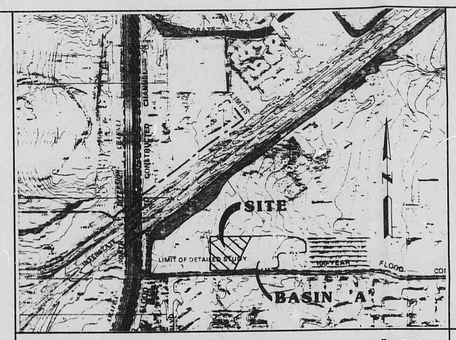
NTS



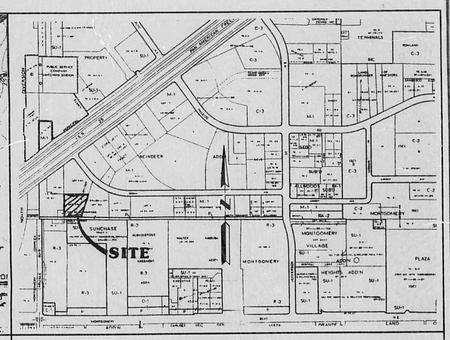


TEMPORARY EROSION CONTROL BERM

NOT TO SCALE



FLOODWAY & OFFSITE DRAINAGE MAP 1"=500'



LOCATION MAP 1"=800'

TBM

PROPERTY ADDRESS

Bogan Ave NE

LEGAL DESCRIPTION

Lot 1-A-2, Reindeer Addition

PROJECT BENCHMARK

NMSHC Brass cap "125-18"
Elevaton = 5125.70 feet (MSLD 1929)

SURVEY

Topographic and Improvement survey by
Aldrich Land Surveying
Dated February, 1993

LEGEND

—14—	CONTOUR (PROPOSED)
4949	CONTOUR (EXISTING)
	CURB AND GUTTER
	CONCRETE
	GUARDRAIL
	SANITARY SEWER MANHOLE
	WATER VALVE
x 11.3	SPOT ELEVATION (EXISTING)
	CHAIN LINK FENCE
—E—	OVERHEAD ELECTRIC LINE
	POLE
	ANCHOR
	LIGHT POLE
14.0	SPOT ELEVATION (PROPOSED)
	FLOW DIRECTION
	DRAINAGE SWALE
	DRAINAGE BASIN DIVIDE

HYMO DATA SHEET

Precipitation zone 2 P360= 2.35"

Basin	Basin Area (ac)	Land Treatment A (acres)	B	C	D	EW (in)	Q100 (cfs)	V100 (af)
Existing conditions								
SITE	2.08	---	---	2.08	---	1.13	6.5	0.20
A	2.9	2.0	---	0.7	0.2	0.78	6.3	0.19
Developed conditions								
SITE	2.08	---	0.18	---	1.9	2.00	9.3	0.35
A	2.9	---	0.3	---	2.6	2.00	12.9	0.48

2.08
2.9
4.98

DRAINAGE PLAN

SCOPE:

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. A truck repair service facility is proposed on the property, with guards quarters (mobile home), and associated access, paving, drainage and utility improvements.

EXISTING CONDITIONS:

The project site is approximately 2.08 acres in size and is located just south of Bogan Avenue, east of the I-25 east frontage road. Presently the site is partially improved. The site has recently been graded to remove vegetation. A chain link fence has been constructed at the perimeter of the property for security purposes. Site topography is uniform, sloping from east to west at approximately one percent (1%). The site is bounded on the west and north by developed commercial properties, on the east by undeveloped property, and on the south by a developed apartment complex. The Grant Line Channel runs through the southern edge of the site. As shown by Floodway Map Panel 350002 0016, this site does not lie within a designated flood hazard zone.

The natural (pre-graded) site drained in a northwesterly direction into the West Coast Sound site located to the north. An area drain is provided on the West Coast Sound site to intercept all flows. This area drain discharges into an underground vault which is drained by a sump pump. The outfall for the vault is the Pan American Frontage Road drainage system.

The existing (graded) site drains in a westerly direction. Temporary erosion control berms have been placed at the property lines to prohibit discharge of flows onto adjacent lands. The graded site is presently ponding runoff as a result of erosion control measures.

DEVELOPED CONDITIONS:

As shown by the Plan, the site is to be developed as a service center for a trucking operation. Improvements consist of construction of a 6000 SF building, paved access and parking, perimeter fencing, guards quarters (mobile home), private utilities, and drainage improvements. Review of the existing off-site conditions at West Coast Sound, and the Drainage Report for Lot 1A (West Coast Sound), prepared by Hall Engineering, dated 1-23-85, reveals that the existing vault does not have capacity to accept developed flows from the L&H Trucking site. The vault was sized to accept only undeveloped flow from the L&H site. Inspection of the vault revealed a need for maintenance which would be increased by further discharge by the project site. The site will therefor be graded to drain to the Grant Line Channel located to the south. An area drain will be constructed just north of the channel to intercept all on-site flow. Utilization of an area drain reduces the fill required drain the site to the south instead of its natural tendency to drain northwest.

The site accepts off-site flow from the undeveloped tract located to the east. The drainage improvements to be provided by this project will be sized to accept this runoff, however, when the adjacent tract develops it will be required to drain either to the Grant Line Channel or Bogan ave.

As shown by the Plan, the site has paved access through the West Coast Sound site. A 20' strip will be paved around the perimeter of the building, with the remainder of the site to be paved with gravel.

CALCULATIONS:

The calculations shown hereon define the 100 year/6 hour design storm falling with the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Part A, DPM, Vol 2" Dated August 1991. Supplemental calculations for the sizing of the private drop inlet and connection to the Grant Line Channel are submitted separately.

OCT 13 1993 HYDROLOGY DIVISION

REVISIONS		
1 10-12-93	PLAN UPDATE TO ADD 50'x52' BUILDING	DAL

022593DAL

L & H TRUCKING
GRADING & DRAINAGE PLAN

10-12-93
2-25-93 3-24-93

BRASHER ENGINEERING, INC.
11930 MENAUL BLVD. N.E., SUITE 113
ALBUQUERQUE, NEW MEXICO 87112
(505)296-0422

DRAWN BY: STAFF	DATE: 02-25-93
CHECKED BY: D.A.L.	SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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Roberta Duran
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STATE OF NEW MEXICO
07/07/02

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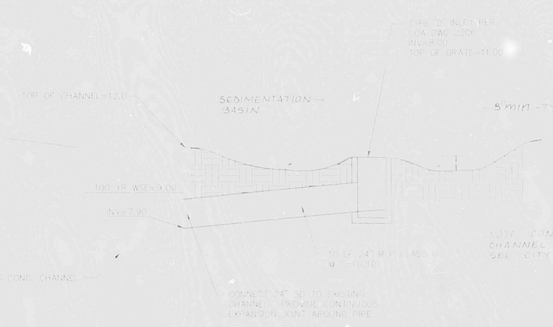

DROP INLET DETAIL "A"

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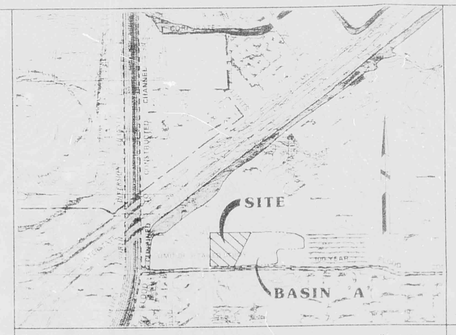

FLOODWAY & OFFSITE DRAINAGE MAP 1" =500'

LOCATION MAP 1" =800'

TBM

PROPERTY ADDRESS

Bogan Ave NE

LEGAL DESCRIPTION

Lot 1-A-2, Pendaw Addition

PROJECT BENCHMARK

NGS(N) Brass cap "B 34 18"
Elevation = 5324.70 feet (MSL 1929)

SURVEY

Topographic and Improvement survey by Aldrich Land Surveyors dated February, 1993

LEGEND

—14—	CONTOUR (PROPOSED)
	CONTOUR (EXISTING)
	CURB AND GUTTER
	CONCRETE
	GUARDRAIL
	SANITARY SEWER MANHOLE
WV	WATER VALVE
x 15.3	SPOT ELEVATION (EXISTING)
	CHAIN LINK FENCE
	OVERHEAD ELECTRIC LINE
	POLE
	ANCHOR
	LIGHT POLE
5114.0	SPOT ELEVATION (PROPOSED)
	FLOW DIRECTION
	DRAINAGE SWALE
	DRAINAGE BASIN DIVIDE

HYMO DATA SHEET

Precipitation zone 2 P360= 2.1"

Basin	Basin Area (ac)	Land Treatment A (acres)	B (acres)	C (acres)	D (acres)	Tc (hr)	Q100 (cfs)	V100 (ac/ft)
Existing conditions								
SITE	2.08	---	---	2.08	---	1.23	0.35	0.20
A	2.3	2.0	---	0.3	0.2	0.79	6.1	0.10
Developed Conditions								
SITE	2.08	---	0.18	0.6	1.3	2.06	9.3	0.38
A	2.3	---	0.1	---	2.2	2.00	12.4	0.28

DRAINAGE PLAN

SCOPE:

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Developer's Process Manual, this Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. A truck repair service facility is proposed on the property, with guards quarters (mobile home) and associated access, paving, drainage and utility improvements.

EXISTING CONDITIONS:

The project site is approximately 2.08 acres in size and is located just south of Bogan Avenue, east of the I-25 east frontage road. Presently the site is partially improved. The site has recently been graded to remove vegetation. A chain link fence has been constructed at the perimeter of the property for security purposes. Site topography is uniform, sloping from east to west at approximately one percent (1%). The site is bounded on the west and north by developed commercial properties, on the east by undeveloped property, and on the south by a developed apartment complex. The Corrit Line Channel runs through the southern edge of the site. As shown by Floodway Map Panel 350002 0016, this site does not lie within a designated flood hazard zone.

The natural (pre-graded) site drained in a northwesterly direction into the West Coast Sound site located to the north. An area drain is provided on the West Coast Sound site to intercept all flows. The area drain connects to an underground pipe which is pumped by a sump pump. The outlet for the pump is the Bogan Avenue curb drainage system.

The existing (graded) site drains in a westerly direction. Temporary berms have been placed on the property lines to prevent discharge of flows onto adjacent lands. The graded site is presently packing and has a height of around twelve inches.

DEVELOPED CONDITIONS:

As shown by the Plan, the site is to be developed as a service center for a trucking operation. Improvements consist of construction of a building, asphalt paving, travel lanes and parking, perimeter landscaping, fencing, lighting, signage, etc. Drainage improvements include the existing drainage conditions of West Coast Sound, and the Drainage Report for LA Fiesta Shopping Center by Aldrich Land Surveyors, dated 1-14-92. Based on the above, the site is to be developed to accept developed flows from the A&B Property sites. The wall was designed to accept developed flow from the A&B Property sites. Flows from the A&B Property sites will be directed to the Corrit Line Channel by a pipe which would be designed by further discharge by the City of Albuquerque. The site will thereafter be graded to drain to the Corrit Line Channel. Grading and drainage design will be performed in accordance with the guidelines of the City of Albuquerque Drainage Ordinance. The maximum of area drain inlets will be required (based upon the 100 year storm) to prevent the ponded water from exceeding the curb height of the parking facility in grade at the gutter.

The site consists of one lot. A non-exclusive easement will be granted to the east. The drainage management will be provided by the owner of the site. Along the north, south and west the site is bordered by commercial properties. The site is bordered on the east by the Corrit Line Channel.

As shown on the Plan, the site will be accessed from the adjacent West Frontage Road. Utilities will be provided upon the development of the building, and will connect to the City's public with sewer.

CALCULATION

The calculations for the proposed drainage facilities are based on the Hydrologic Criteria and the Drainage Ordinance for the City of Albuquerque. The HYMO computer program was used to determine the flows for the proposed facilities. The HYMO program is based on the Soil Conservation Service Technical Release 55 and Technical Release 20 methodologies.

L & H TRUCKING
GRADING & DRAINAGE PLAN

REVISIONS

12-12-93	DRAIN DRAWING 3-1-1993	10-4-93	

BRASHER ENGINEERING, INC.
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(505)296-0422

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Roberta Duran
NOTARY PUBLIC
07/02/92

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