

GENERAL NOTES

- UTILITIES: SANITARY SEWER SYSTEM CUYAMA COMMUNITY SERVICES DISTRICT
WATER SYSTEM CUYAMA COMMUNITY SERVICES DISTRICT
2. WATER SYSTEM: POLYVINYL CHLORIDE PRESSURE PIPE SHALL BE USED AND SHALL CONFORM TO AMERICAN WATER WORKS ASSOCIATION C-900. PIPE SHALL BE CLASS 150, DR 18, AND WITHSTAND A WORKING PRESSURE OF AT LEAST 150 PSI. WATER MAINS SHALL HAVE AT LEAST THREE FEET OF COVER. ALL VALVES SHALL BE IRON BODY RESILIENT-SEATED GATE VALVES, AWWA C-509.
3. BENCHMARK: THE BENCHMARK FOR THIS PROJECT IS THE TOP OF A SET 5/8" REBAR LOCATED NEAR THE NORTH END OF BELL DRIVE, THE ASSUMED ELEVATION BEING 501.00 FEET.
4. BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS PROJECT IS THE LINE BETWEEN TWO FOUND 6"x6" CONCRETE HIGHWAY MONUMENTS ON THE SOUTH SIDE OF HWY 166, THE BEARING BEING N51°28'30"W AS SHOWN ON 15 MB 287.
5. IN THE EVENT THAT ARCHAEOLOGICAL OR PALEONTOLOGICAL REMAINS OR HISTORICAL ARTIFACTS ARE UNCOVERED DURING CONSTRUCTION ON ANY SITE, EXCAVATION SHALL BE TEMPORARILY SUSPENDED AND REDIRECTED UNTIL A COUNTY-QUALIFIED ARCHAEOLOGIST AND, AS APPLICABLE, A NATIVE AMERICAN REPRESENTATIVE OR HISTORIAN, ARE RETAINED BY THE APPLICANT TO EVALUATE THE FIND.
- IN THE EVENT BURIALS ARE ENCOUNTERED, THEY WILL BE TREATED ACCORDING TO PROCEDURES SET FORTH IN THE ARCHAEOLOGICAL RESOURCE PROTECTION ACT AND IMPLEMENTING REGULATION (43 CFR PART 7), CEQA APPENDIX K, AND THE PUBLIC RESOURCES CODE SECTION 5097.98. THESE CALIFORNIA STATE AND LOCAL PROCEDURES REQUIRE NOTIFICATION OF THE LOCAL CORONER TO DETERMINE THE ORIGIN OF THE REMAINS. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, PROCEDURES ESTABLISHED WILL BE FOLLOWED.
- BY PUBLIC RESOURCES CODE SECTION 5097.98 REGARDING NATIVE AMERICAN CONSULTATION, THE ABOVE MEASURES SHALL BE APPLIED CONSISTENT WITH THE ARCHAEOLOGICAL GUIDELINES OF SANTA BARBARA COUNTY, THE STATE OFFICE OF HISTORIC PRESERVATION, AND THE STATE OF CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION.
6. ALL DESIGN, MATERIALS AND CONSTRUCTION WORK WITHIN STATE RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS DATED MAY 2006.
7. PRIOR TO ANY WORK WITHIN STATE RIGHT OF WAY, AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CALIFORNIA DEPARTMENT OF TRANSPORTATION.
8. PRIOR TO THE ISSUANCE OF AN ENCROACHMENT PERMIT BY CALTRANS, THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE STATE FOR ALL WORK WITHIN STATE RIGHT OF WAY FOR REVIEW AND APPROVAL.
9. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT AND MAINTAIN SUCH FENCES, BARRICADES, LIGHTS AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES. THE USE OF TEMPORARY TRAFFIC CONTROL SHALL BE APPROVED BY THE CALTRANS INSPECTOR PRIOR TO INSTALLATION AND SHALL CONFORM TO SECTION 12, "CONSTRUCTION AREA TRAFFIC CONTROL DEVICES," OF THE CALTRANS STANDARD SPECIFICATIONS.
10. ALL EXCAVATIONS OR TRENCHES IN EXISTING PAVEMENT WITHIN STATE RIGHT OF WAY SHALL REQUIRE FULL DEPTH SAWCUTTING OF PAVEMENT IN A NEAT AND UNIFORM MANNER AND SHALL CONFORM TO SECTION 19, "EARTHWORK" OF THE CALTRANS STANDARD SPECIFICATIONS.
11. THE LOCATION OF ALL PROPOSED UNDERGROUNDING OF UTILITIES WITHIN STATE RIGHT OF WAY SHALL BE APPROVED BY THE STATE. ALL UTILITY WORK WITHIN STATE RIGHT OF WAY SHALL CONFORM TO THE STATE "POLICY ON HIGH AND LOW RISK UNDERGROUND FACILITIES WITHIN HIGHWAY RIGHTS OF WAY".
12. INFORMATION SHOWN AS EXISTING IMPROVEMENTS ON THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.
13. CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, AT HIS EXPENSE, ANY UTILITIES DAMAGED BY HIS FORCES.
14. ALL GRADING WITHIN STATE RIGHT OF WAY SHALL CONFORM TO SECTION 16, "CLEARING AND GRUBBING," OF THE CALTRANS STANDARD SPECIFICATIONS.
15. ALL WATERING WITHIN STATE RIGHT OF WAY SHALL CONFORM TO SECTION 17, "WATERING," OF THE CALTRANS STANDARD SPECIFICATIONS.
16. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING 1-800-422-4133.
17. TRAFFIC INDEX ON HIGHWAY IS 11, SHOULDER IS 7.

IMPROVEMENT PLANS FOR
CONSTRUCTION ON STATE HIGHWAY
AT RANCHOIL SUBDIVISION
SANTA BARBARA COUNTY, CA.

DISTRICT	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHTS.
05	SB	166	62.58/64.20	1	8

LEGEND

PROJECT BOUNDARY
CENTERLINE
PROPERTY LINE
CURB LINE
EXIST. E.P.
E.P./LIP OF GUTTER
STORM DRAIN
EXIST STORM DRAIN
SEWER MAIN
EXIST SEWER MAIN
WATER MAIN
EXIST. WATER MAIN
EASEMENT LINE
WOOD FENCE
MASONRY WALL

2:1 SLOPE

SAN. SEWER MANHOLE
EXIST. SEWER MANHOLE
STORM DRAIN MANHOLE
EXIST. S.D. MANHOLE
WATER VALVE
EXIST WATER VALVE
STREET LIGHT
EXIST STREET LIGHT
FIRE HYDRANT
EXIST FIRE HYDRANT
CATCH BASIN
SEWER LATERAL
SEWER CLEAN OUT

<u>ABBREVIATIONS</u>	
TOP OF CURB	T.C.
FLOWLINE	F.L.
EDGE OF PAVEMENT	E.P.
ASPHALT CONCRETE	A.C.
HIGH POINT	H.P.
LOW POINT	L.P.
FINISHED GRADE	F.G.
BACK OF WALK	B.W.
TOP OF WALL	T.O.W.
TOP OF FOOTING	T.O.F.
GRADE BREAK	G.B.

T.C.
F.L.
E.P.
A.C.
H.P.
L.P.
F.G.
B.W.
T.O.W.
T.O.F.
G.B.

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OF THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SANTA BARBARA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: DENNIS BETHEL & ASSOCIATES, INC.
ADDRESS: 2450 PROFESSIONAL PKWY., SUITE 120
TELEPHONE: (805) 934-5767

RUSSELL J. GARRISON
PROFESSIONAL REGISTRATION NUMBER:
R.C.E. 59987 DATE OF EXPIRATION: 6/30/08
DISCIPLINE: CIVIL ENGINEER

PROJECT MAP

INDEX

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
PLAN STATION 0+00 - 11+00	2
PLAN STATION 11+00 - 22+00	3
PLAN STATION 22+00 - 48+00	4
PLAN STATION 48+00 - 74+00	5
PLAN STATION 74+00 - 92+00	6
DETAILS	7
STRIPING PLAN	8

DEVELOPMEN

SAN LUIS OBISPO COUNTY

SANTA BARBARA COUNT

PROJECT EXTENTS

NEW CUYAMA STATE HIGHWAY

VICINITY MAP

N.T.S.

PC3 10/16/07
PC3 6/15/07
PC2 1/22/07
PC1 9/27/06
7/10/06
FFSITE PIP.DWG

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION	DATE
FIRE DEPARTMENT APPROVAL:	DATE
UTILITIES APPROVED BY:	DATE
STORM SYSTEM REVIEWED BY:	DATE



bethel **BETHEL**
engineering

2624 Airpark Drive
Santa Maria, California 93455
(805) 934-5767

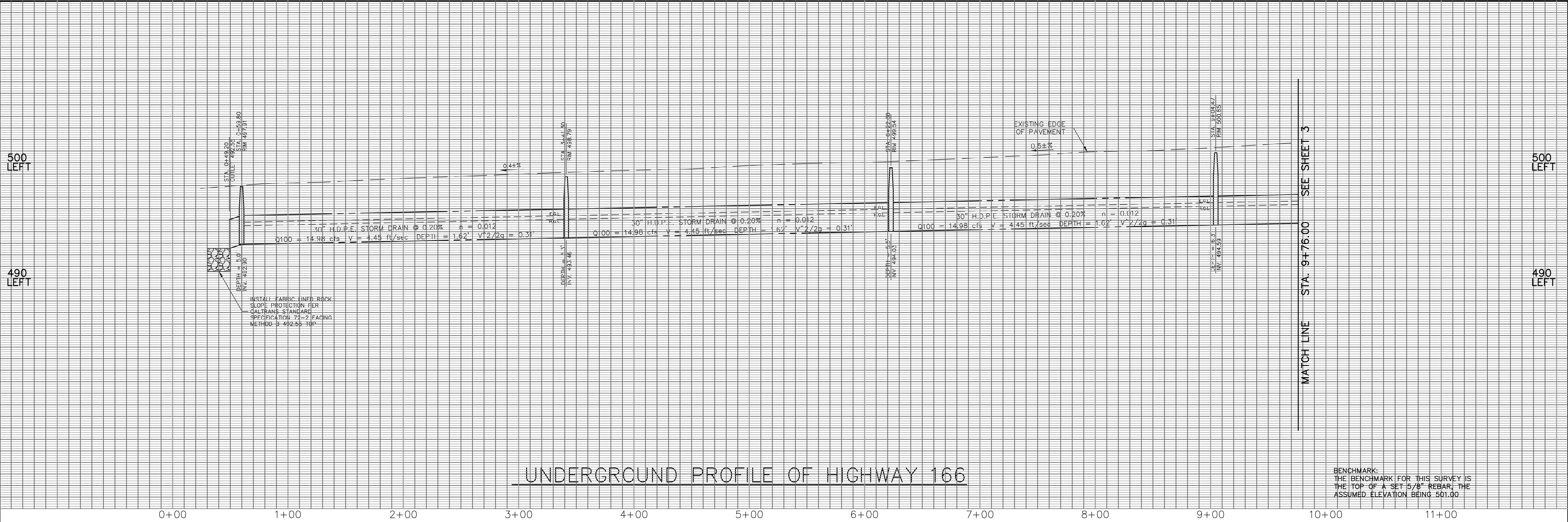
RUSSELL J. GARRISON RCE 59987 DATE _____

IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION

SHEET NO.
1 OF 8

FILE NO.

REVISIONS				CONSTRUCTION STARTED:	REVIEWED BY: <div>COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS ROAD DIVISION</div>	DESIGN BY: J.S.W.	CHECKED BY: R.J.G.	SCALE	PROJECT NO.	IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION	SHEET NO. 1 OF 8	
				CONSTRUCTION COMPLETED:					NONE		0542	FILE NO.
				AS BUILT:		DIRECTOR OF PUBLIC WORKS	DATE	APPROVAL RECOMMENDED BY:				



UNDERGROUND PROFILE OF HIGHWAY 166

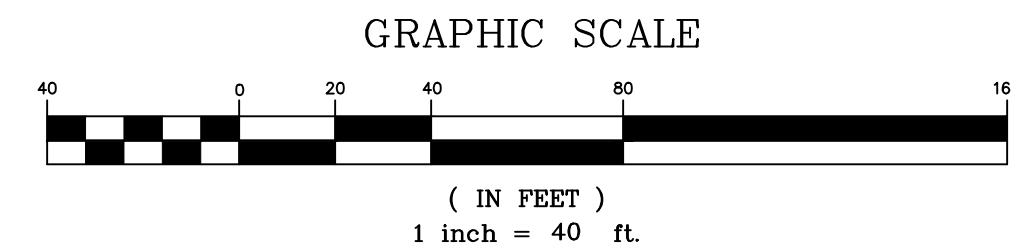
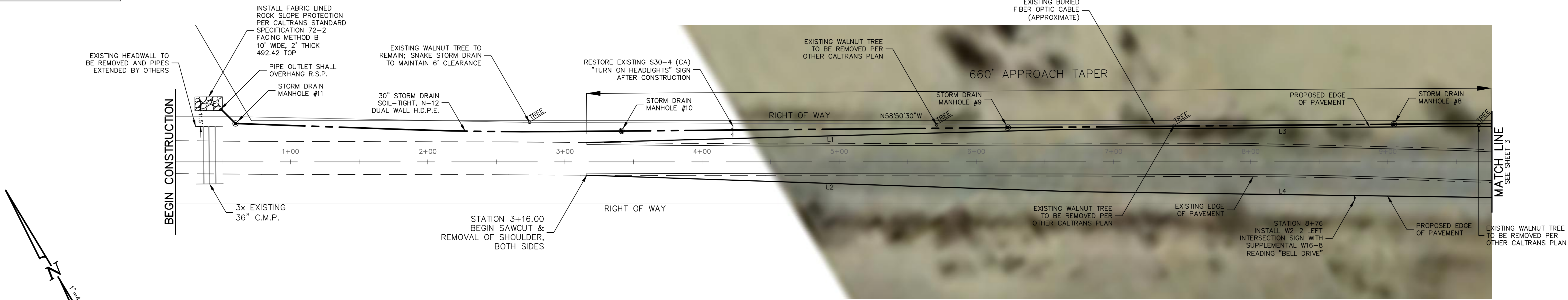
BENCHMARK:
THE BENCHMARK FOR THIS SURVEY IS
THE TOP OF A SET 5/8" REBAR, THE
ASSUMED ELEVATION BEING 501.00

PROFILE SCALE

VERT. 1 in = 4 ft
HORIZ. 1 in = 40 ft

EROSION CONTROL NOTE:
PLAN ALL DENuded AREAS
WITH SANDS SEEDS BASIC
EROSION CONTROL MIX

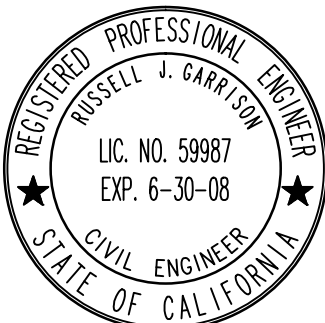
LINE TABLE		
LINE	LENGTH	BEARING
L1	354.85	N60°24'13"W
L2	354.87	N56°53'49"W
L3	305.26	N59°15'28"W
L4	305.31	N58°02'33"W



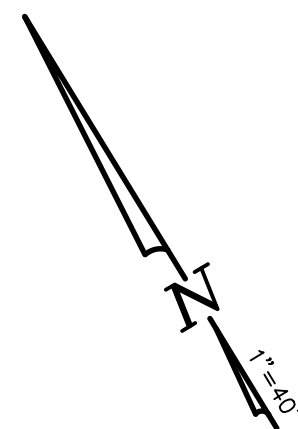
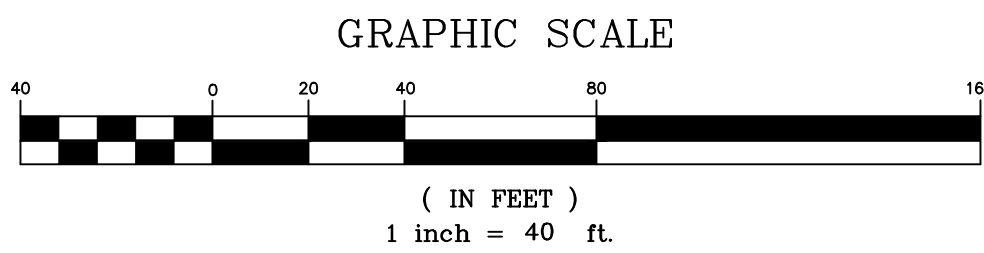
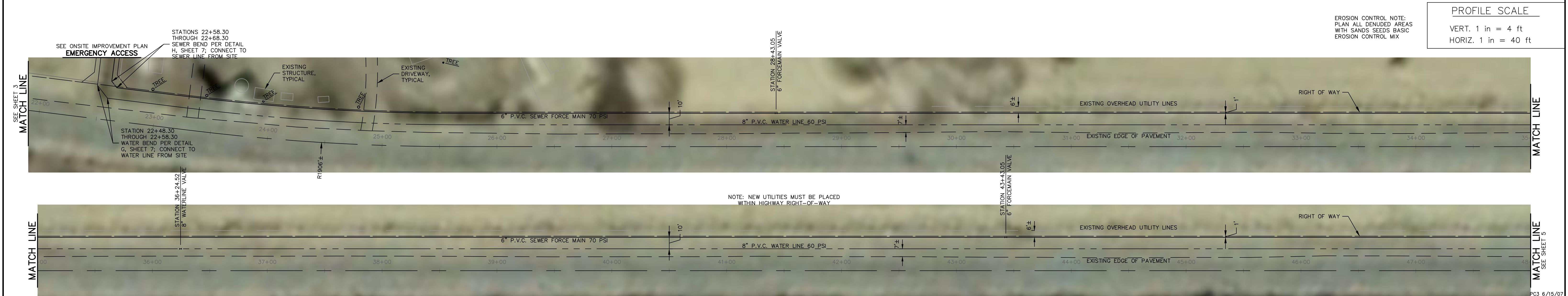
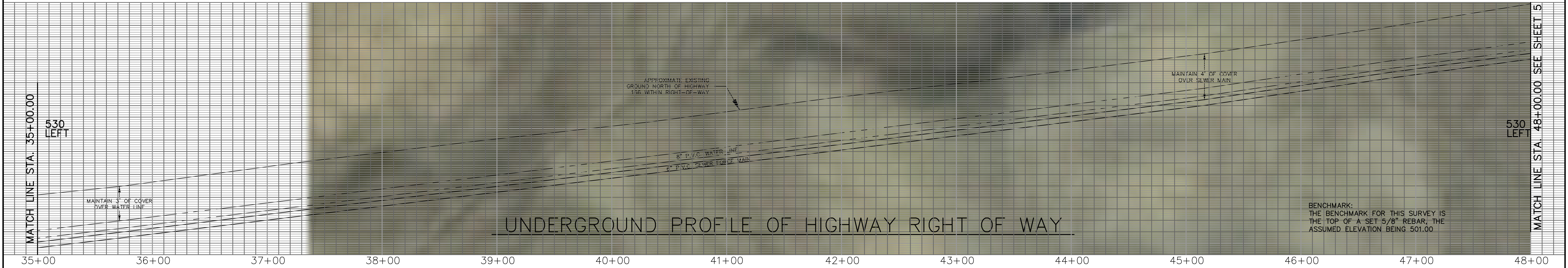
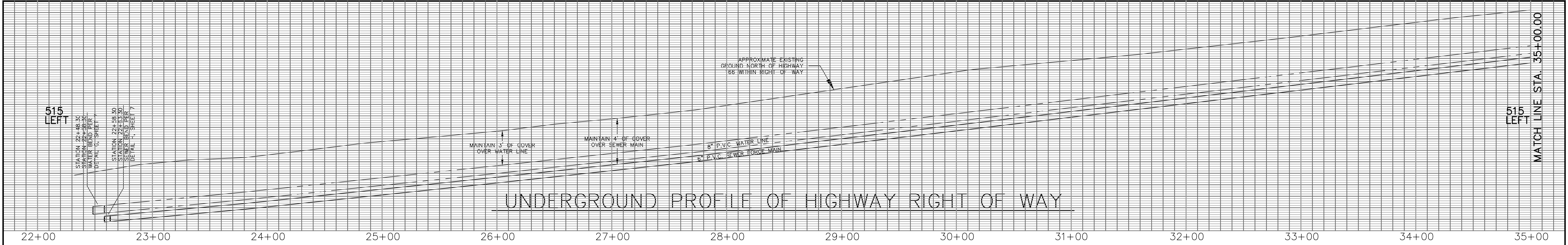
NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY
THE LOCATIONS AND ELEVATIONS OF ALL EXISTING
IMPROVEMENTS PRIOR TO BEGINING WORK.

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND
SERVICE ALERT TWO WORKING DAYS PRIOR TO
BEGINNING OF CONSTRUCTION BY CALLING:
1-800-422-4133.

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION: _____ DATE _____
FIRE DEPARTMENT APPROVAL: _____ DATE _____
UTILITIES APPROVED BY: _____ DATE _____
STORM SYSTEM REVIEWED BY: _____ DATE _____



REVISIONS				CONSTRUCTION STARTED:	REVIEWED BY:	COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS ROAD DIVISION	DESIGN BY:	CHECKED BY:	SCALE	PROJECT NO.	IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION	SHEET NO.
				CONSTRUCTION COMPLETED:			J.S.W.	R.J.G.	AS SHOWN	0542		2 OF 8
				AS BUILT:			DIRECTOR OF PUBLIC WORKS	DATE				J.S.W.

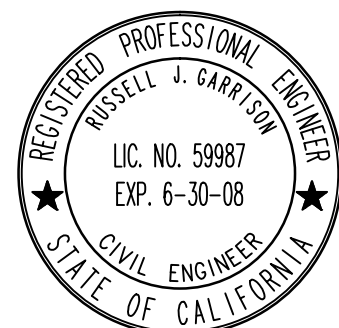


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1-800-422-4133.

STATE HIGHWAY 166

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION:	DATE
FIRE DEPARTMENT APPROVAL:	DATE
UTILITIES APPROVED BY:	DATE
STORM SYSTEM REVIEWED BY:	DATE



2824 Airpark Drive
Santa Maria, California 93455
(805) 934-5767

RUSSELL J. GARRISON RCE 59987 DATE

REVISIONS				CONSTRUCTION STARTED:	REVIEWED BY: DIRECTOR OF PUBLIC WORKS DATE
				CONSTRUCTION COMPLETED:	
				AS BUILT:	

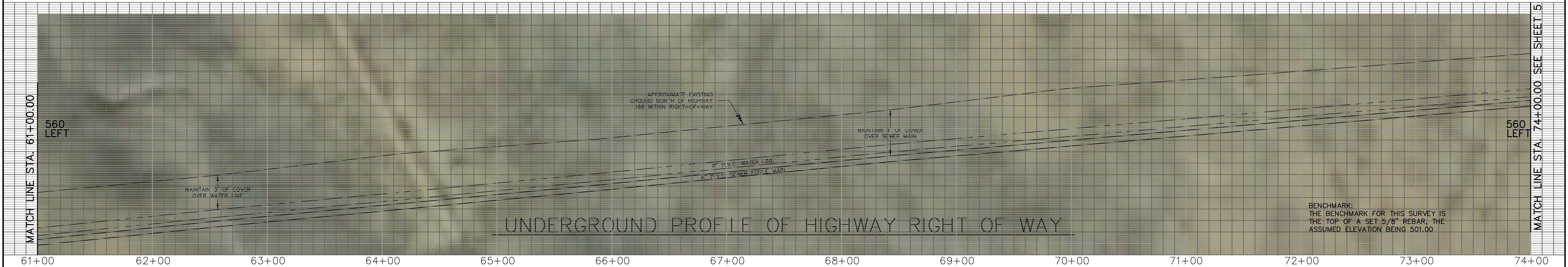
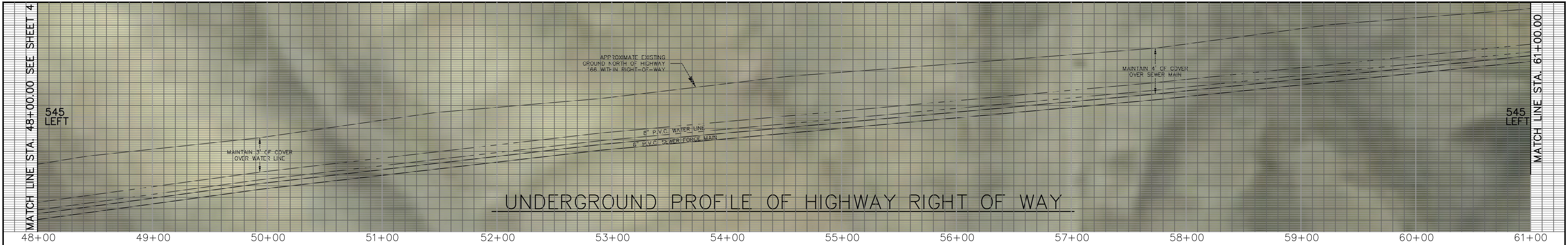
COUNTY OF SANTA BARBARA
DEPARTMENT OF PUBLIC WORKS
ROAD DIVISION

DESIGN BY:	CHECKED BY:
J.S.W.	R.J.G.
DRAWN BY:	APPROVAL RECOMMENDED BY:
J.S.W.	

SCALE	PROJECT NO.
AS SHOWN	0542

IMPROVEMENT PLANS
FOR
RANCHOIL SUBDIVISION

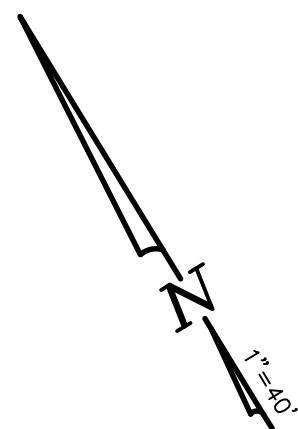
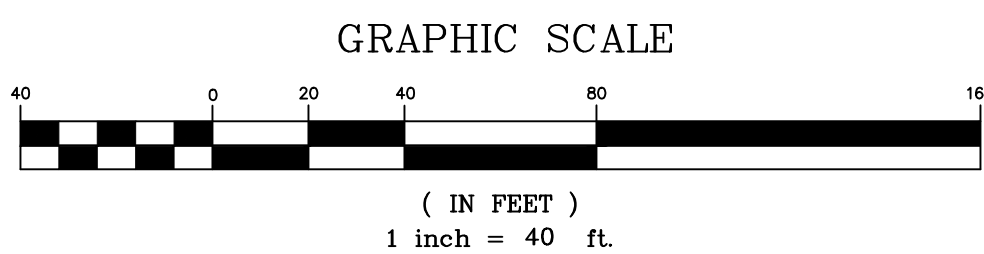
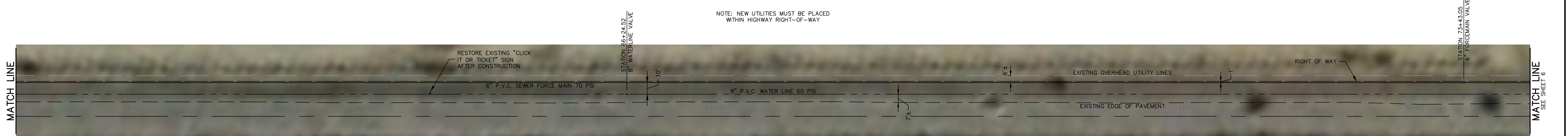
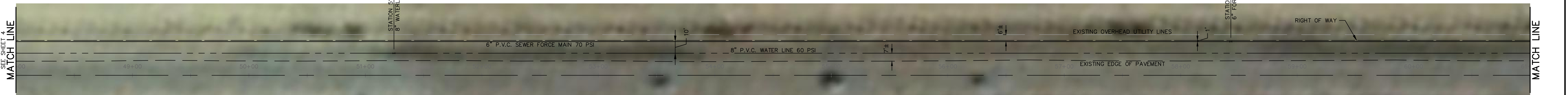
SHEET NO. 4 OF 8
FILE NO.



PROFILE SCALE

VERT. 1 in = 4 ft
HORIZ. 1 in = 40 ft

EROSION CONTROL NOTE:
PLAN ALL DENUDED AREAS
WITH SANDS SEEDS BASIC
EROSION CONTROL MIX

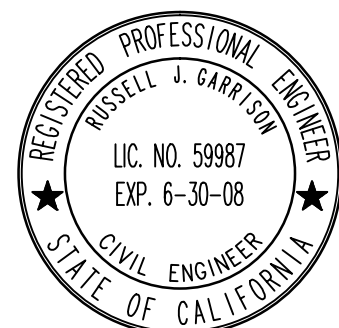


STATE HIGHWAY 166

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING: 1-800-422-4133.

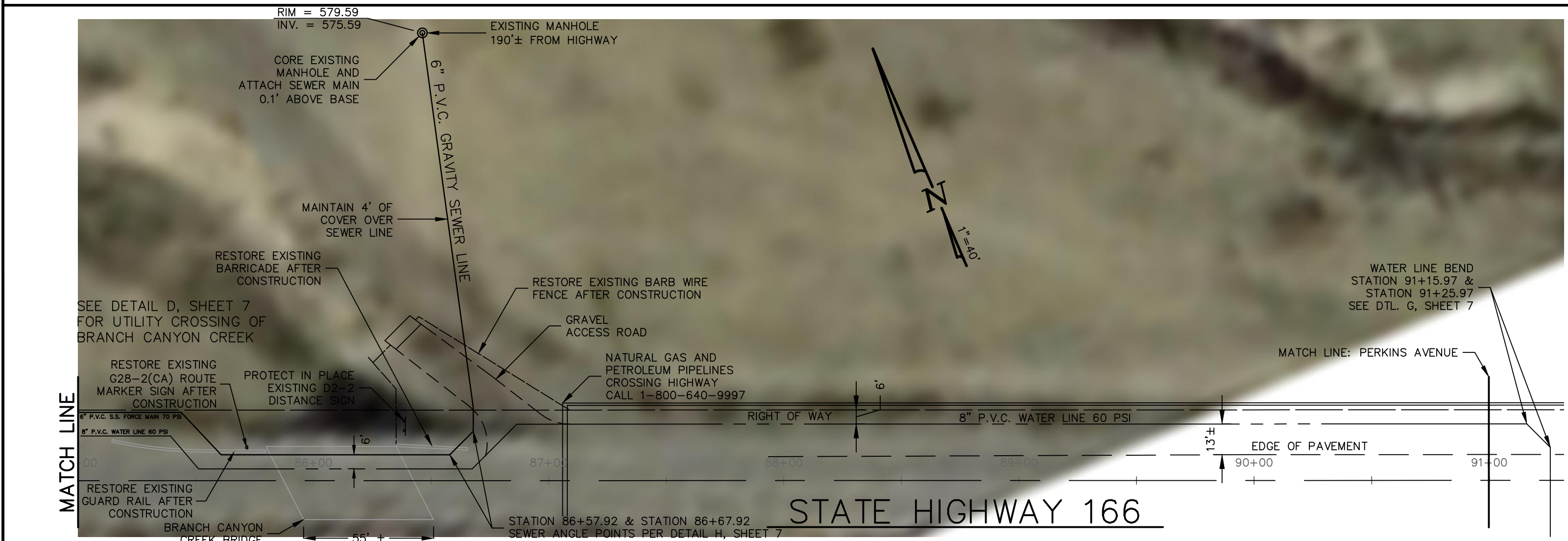
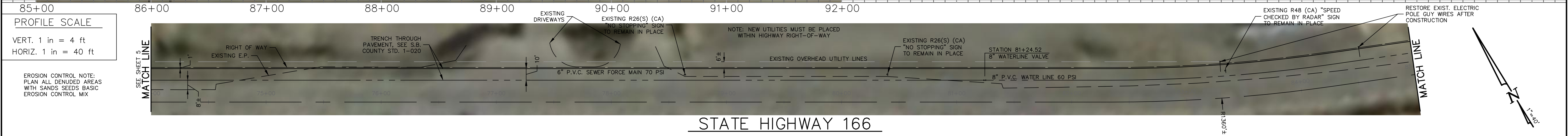
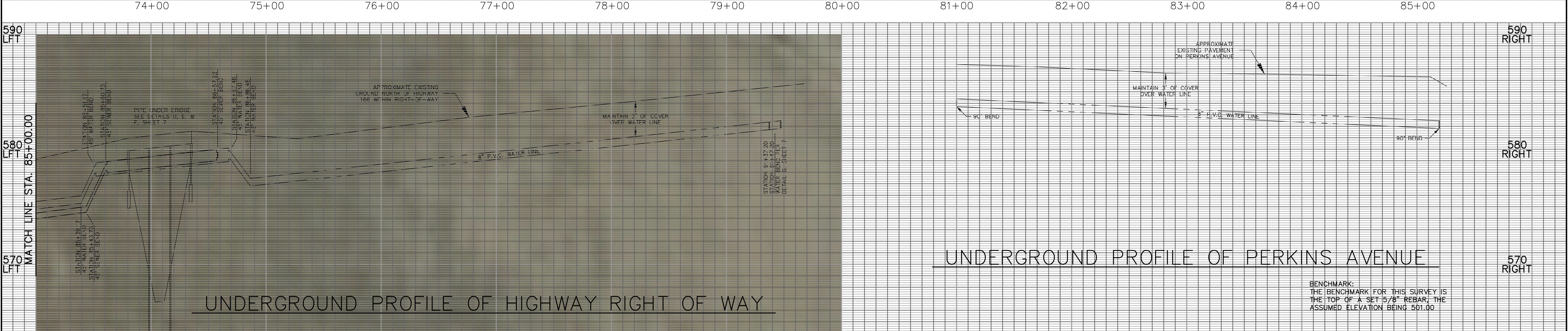
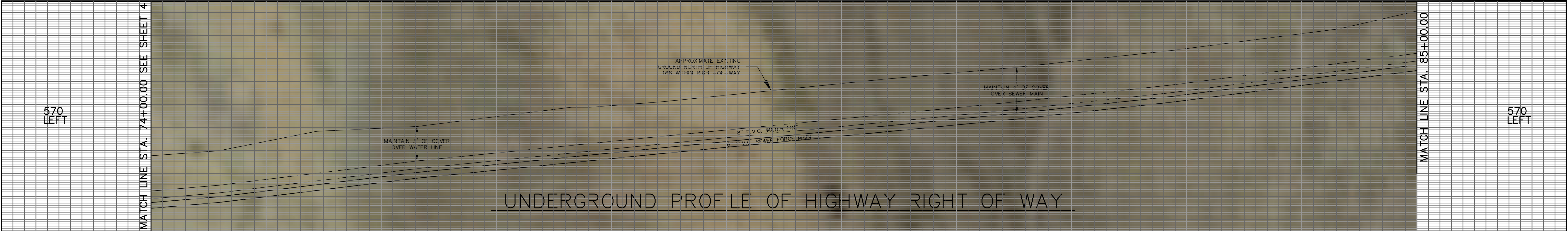
NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION:	DATE
FIRE DEPARTMENT APPROVAL:	DATE
UTILITIES APPROVED BY:	DATE
STORM SYSTEM REVIEWED BY:	DATE

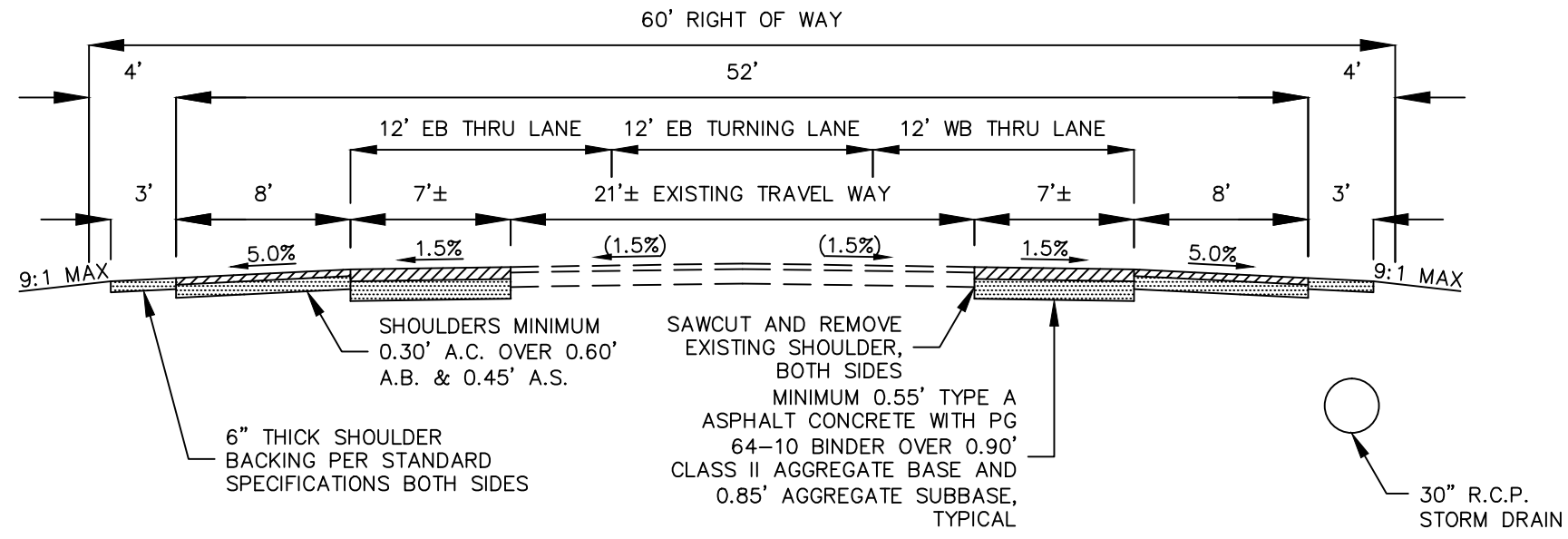


RUSSELL J. GARRISON RCE 59987 DATE

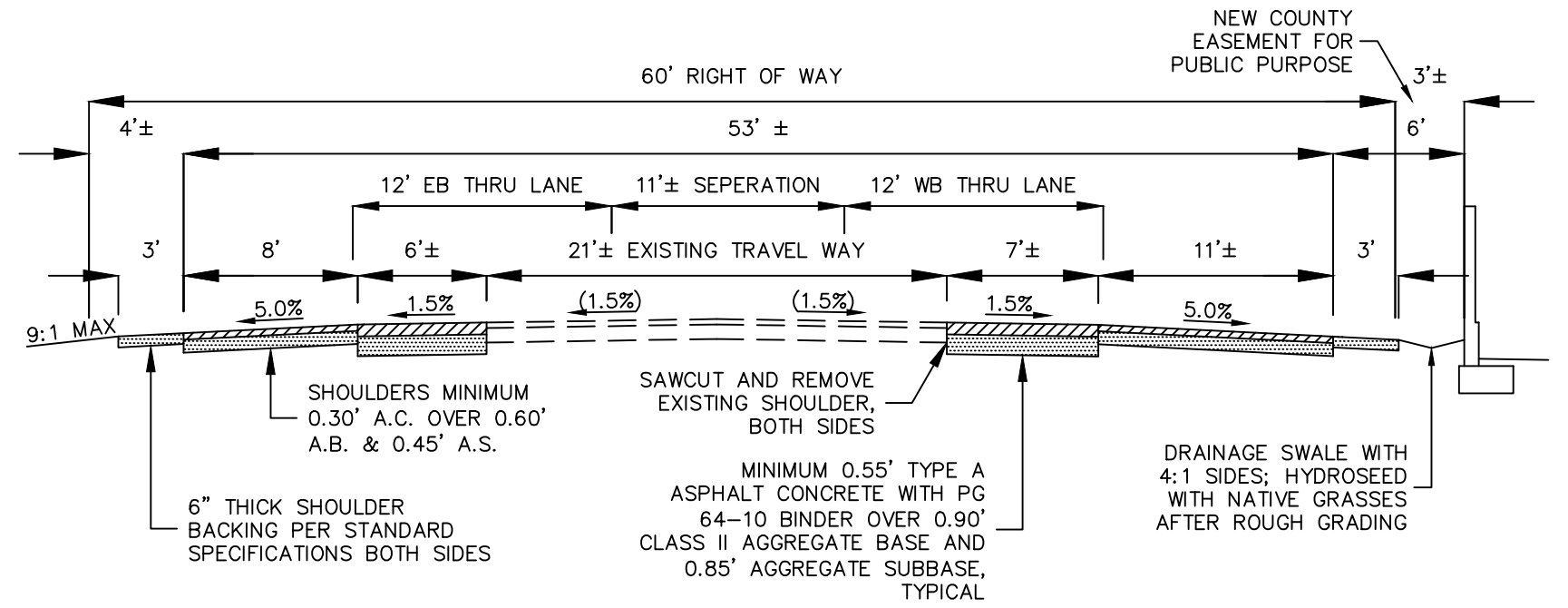
REVISIONS				CONSTRUCTION STARTED:	REVIEWED BY:	COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS ROAD DIVISION	DESIGN BY:	CHECKED BY:	SCALE	PROJECT NO.	IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION	SHEET NO.
				CONSTRUCTION COMPLETED:			J.S.W.	R.J.G.	AS SHOWN	0542		5 OF 8
				AS BUILT:			DIRECTOR OF PUBLIC WORKS	APPROVAL RECOMMENDED BY:				J.S.W.
					DATE							



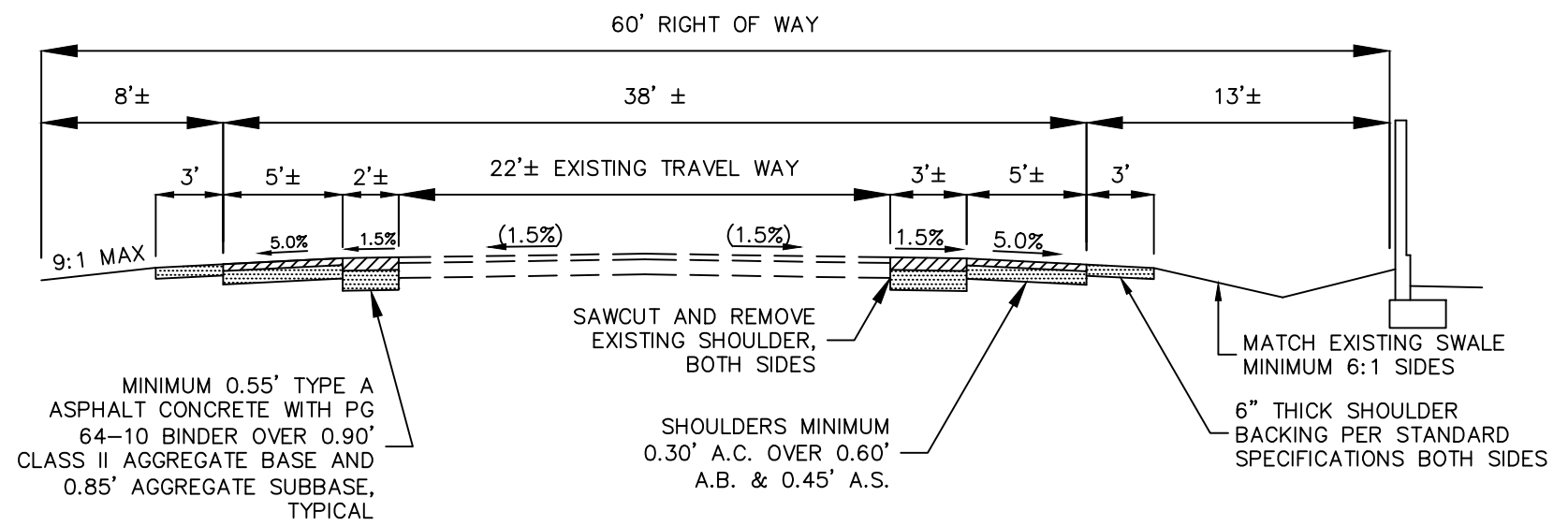
GREEN BOOK				SHEET NO.		PROJECT NO.		DATE		SHEET NO.											
REVISIONS				CONSTRUCTION STARTED:		REVIEWED BY:		COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS ROAD DIVISION		DESIGN BY:		CHECKED BY:		SCALE		PROJECT NO.		IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION		SHEET NO.	
				CONSTRUCTION COMPLETED:		DIRECTOR OF PUBLIC WORKS				J.S.W.		R.J.G.		AS SHOWN		0542				6 OF 8	
				AS BUILT:						J.S.W.		APPROVAL RECOMMENDED BY:								FILE NO.	
						DATE															



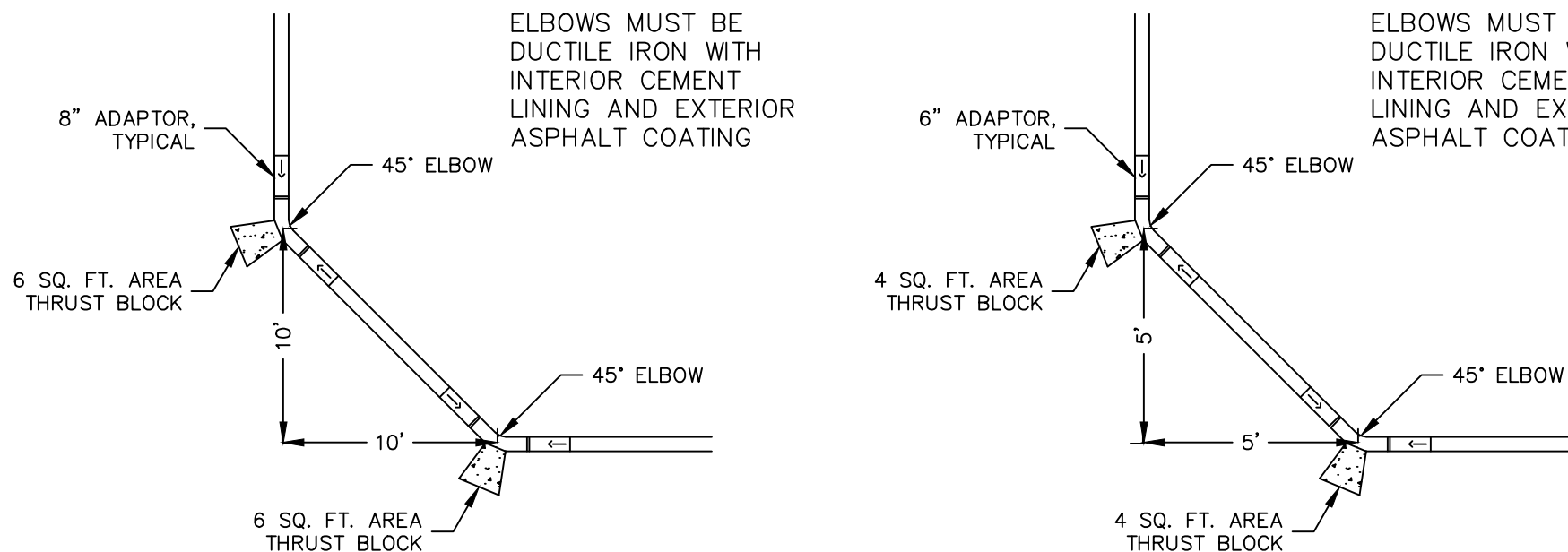
A HIGHWAY SECTION
N.T.S.



B HIGHWAY SECTION
N.T.S.



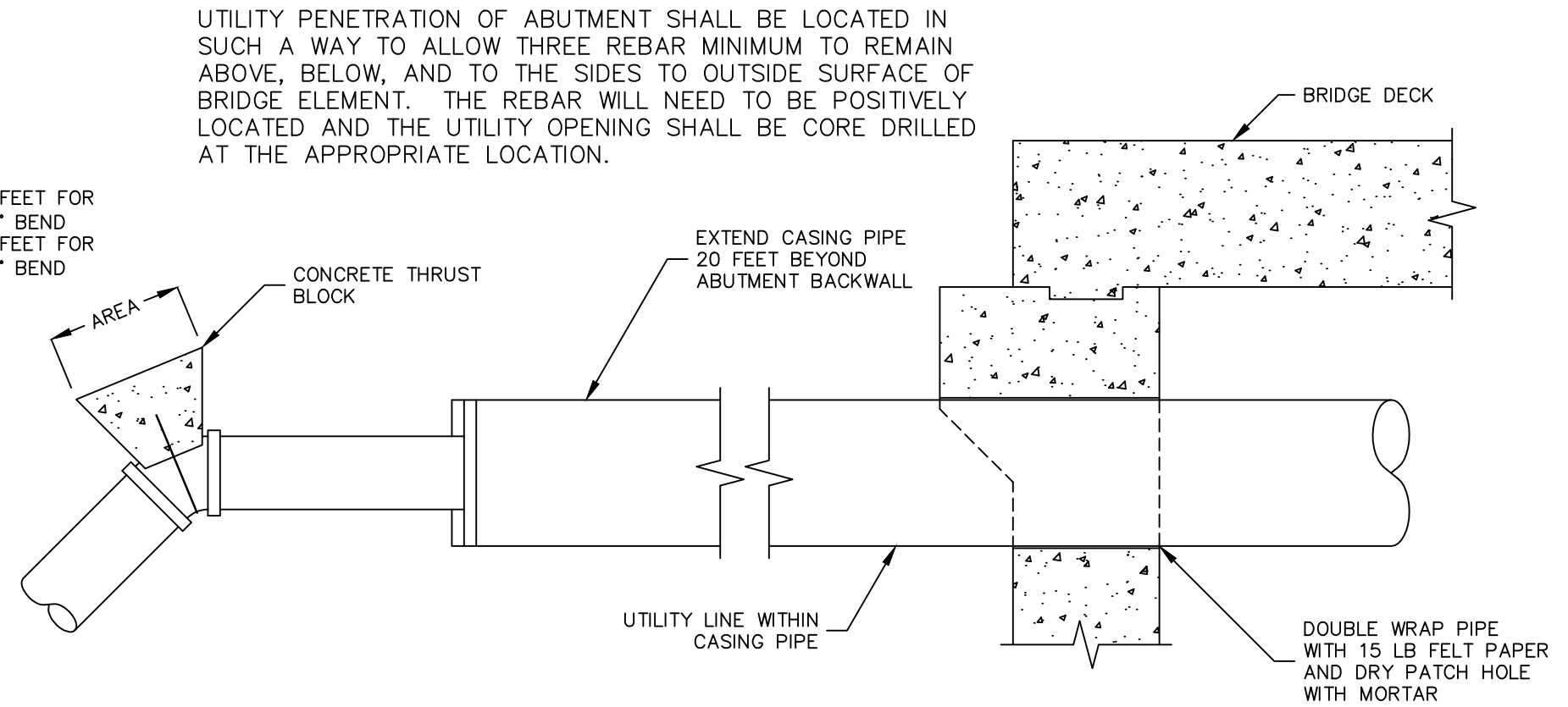
C HIGHWAY SECTION
N.T.S.



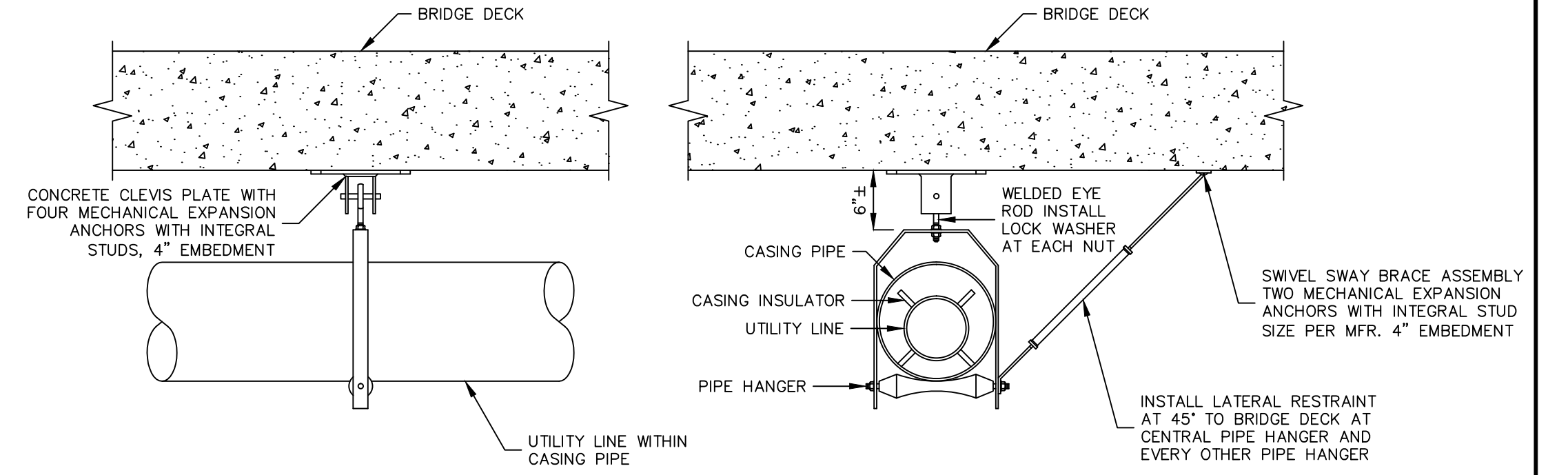
G WATER LINE BEND
N.T.S.

H SEWER LINE BEND
N.T.S.

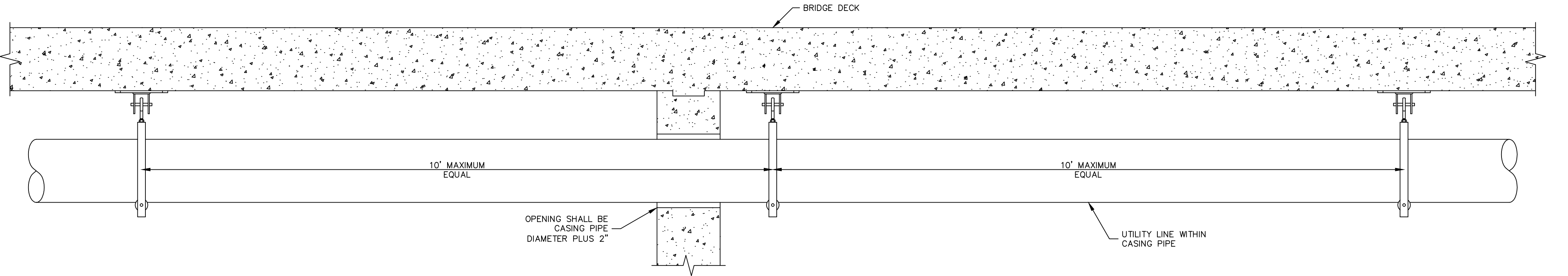
4 SQUARE FEET FOR
6" PIPE 45° BEND
6 SQUARE FEET FOR
8" PIPE 45° BEND



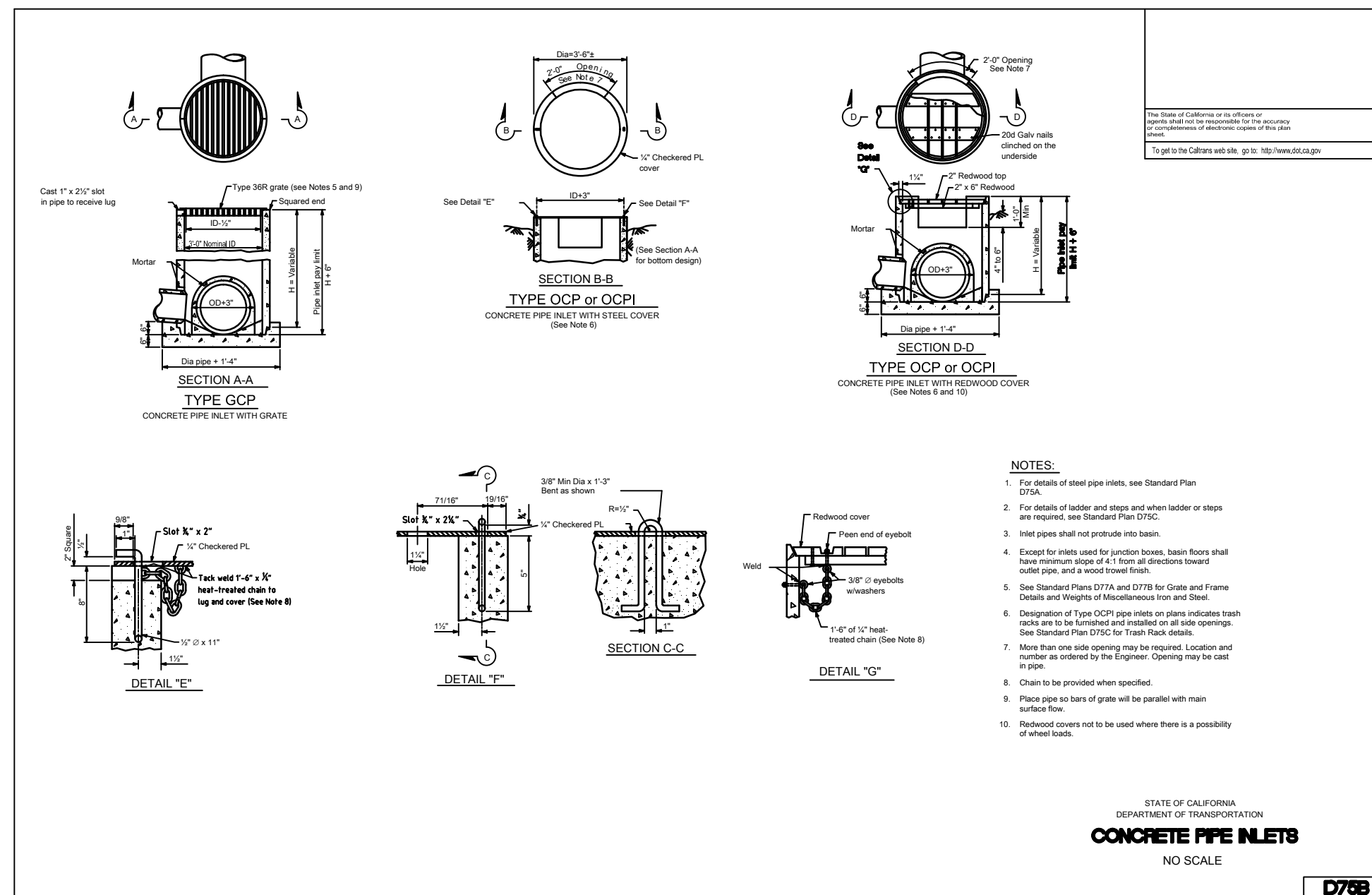
D PIPE THROUGH ABUTMENT
N.T.S.



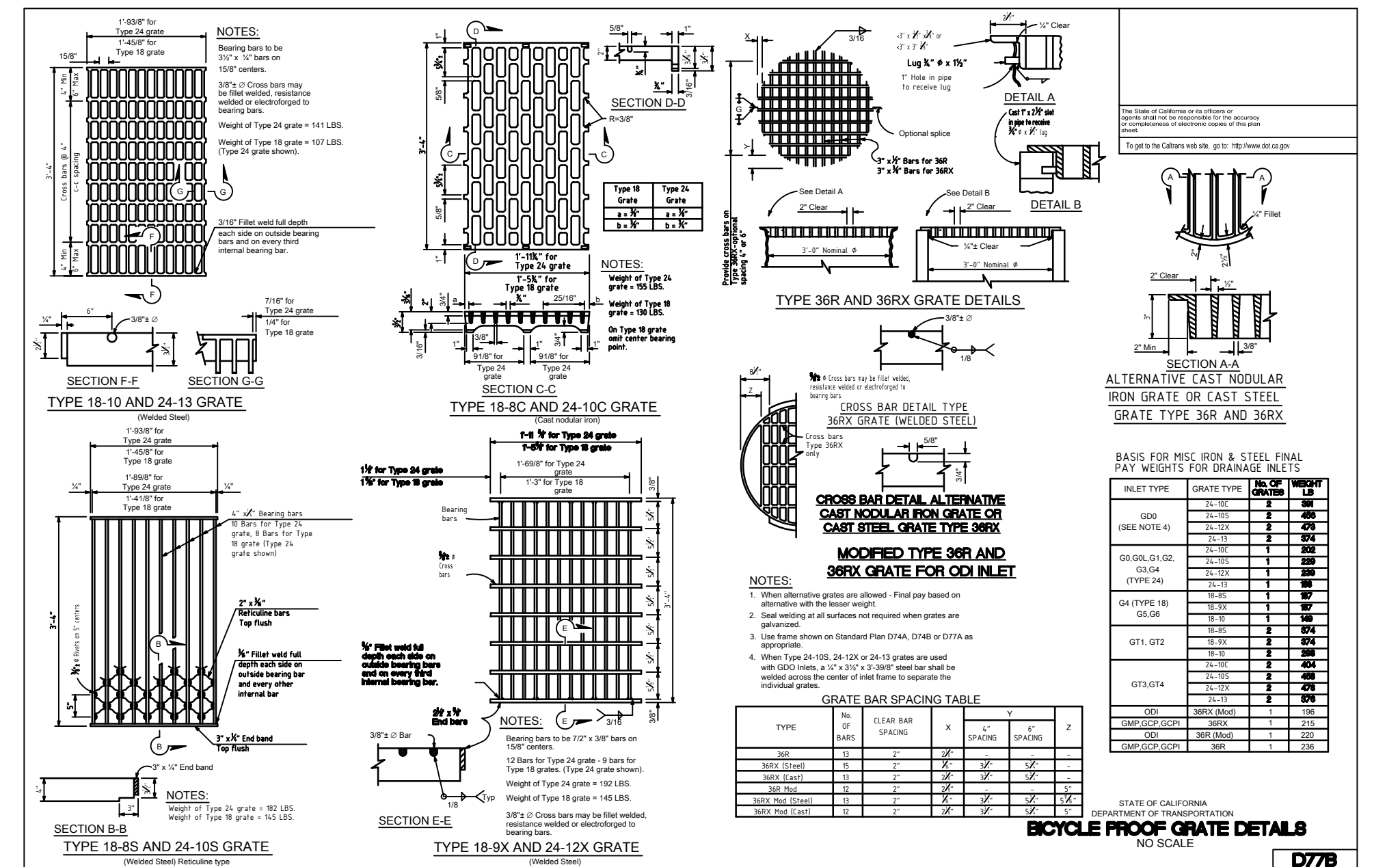
E PIPE HANGER ASSEMBLY
N.T.S.



F TYPICAL PIPE HANGER SPACING
N.T.S.



CONCRETE PIPE INLETS
NO SCALE



BI-CYCLE PROOF GRATE DETAILS
NO SCALE

NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

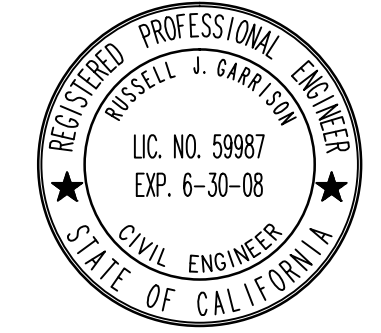
NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION BY CALLING: 1-800-422-4133.

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION: _____ DATE _____

FIRE DEPARTMENT APPROVAL: _____ DATE _____

UTILITIES APPROVED BY: _____ DATE _____

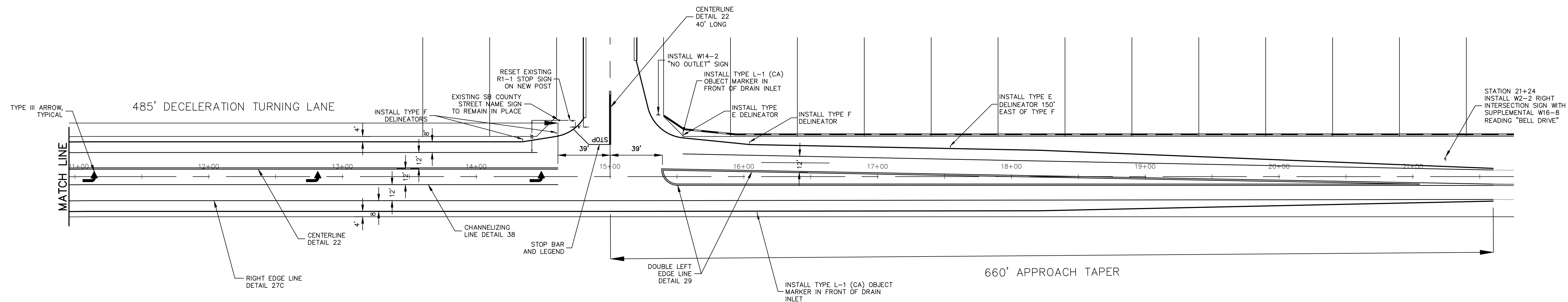
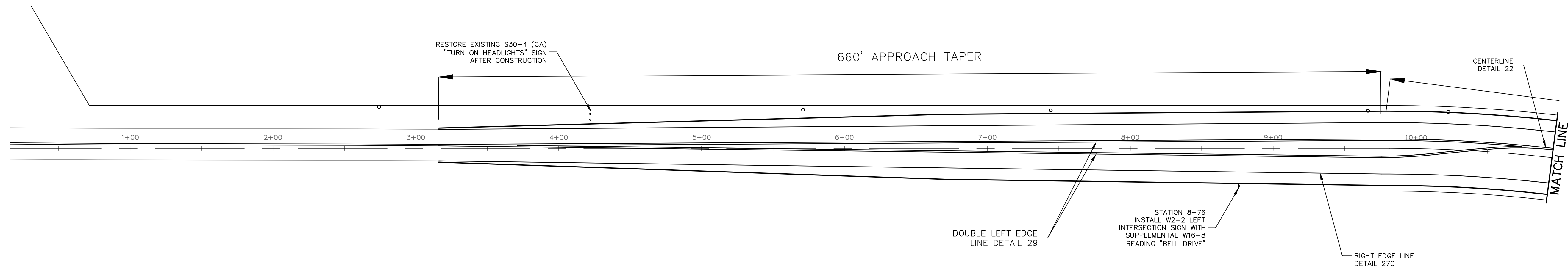
STORM SYSTEM REVIEWED BY: _____ DATE _____



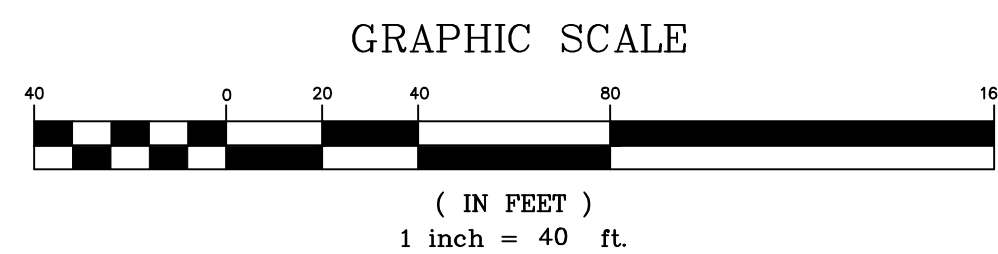
RUSSELL J. GARRISON RCE 59987 DATE _____

REVISIONS				CONSTRUCTION STARTED:	REVIEWED BY:	DESIGN BY:	CHECKED BY:	SCALE	PROJECT NO.	IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION		SHEET NO.
						J.S.W.	R.J.G.	NONE	0542			7 OF 8
						J.S.W.						FILE NO.
				AS BUILT:	DIRECTOR OF PUBLIC WORKS							

PC3 6/15/07
PC2 1/22/07
PC1 9/18/06
7/10/06
0542 OFFSITE PIP.DWG

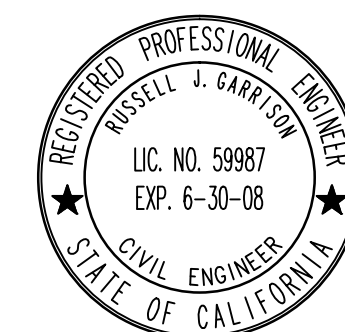


STRIPING PLAN



NOTE: CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING IMPROVEMENTS PRIOR TO BEGINNING WORK.

REVIEWED BY CA DEPARTMENT OF TRANSPORTATION:	DATE _____
FIRE DEPARTMENT APPROVAL:	DATE _____
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RUSSELL J. GARRISON RCE 59987 DATE _____

REVISIONS				CONSTRUCTION STARTED:	REVIEWED BY:	COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS ROAD DIVISION				DESIGN BY: J.S.W.	CHECKED BY: R.J.G.	SCALE AS SHOWN	PROJECT NO. 0542	IMPROVEMENT PLANS FOR RANCHOIL SUBDIVISION		SHEET NO. 8 OF 8
				CONSTRUCTION COMPLETED:						DRAWN BY: J.S.W.	APPROVAL RECOMMENDED BY:					FILE NO.
				AS BUILT:	DIRECTOR OF PUBLIC WORKS _____ DATE _____											

PC3 6/15/07
PC2 1/22/07
PC1 9/27/06
7/10/06
0542 OFFSITE PIP.DWG